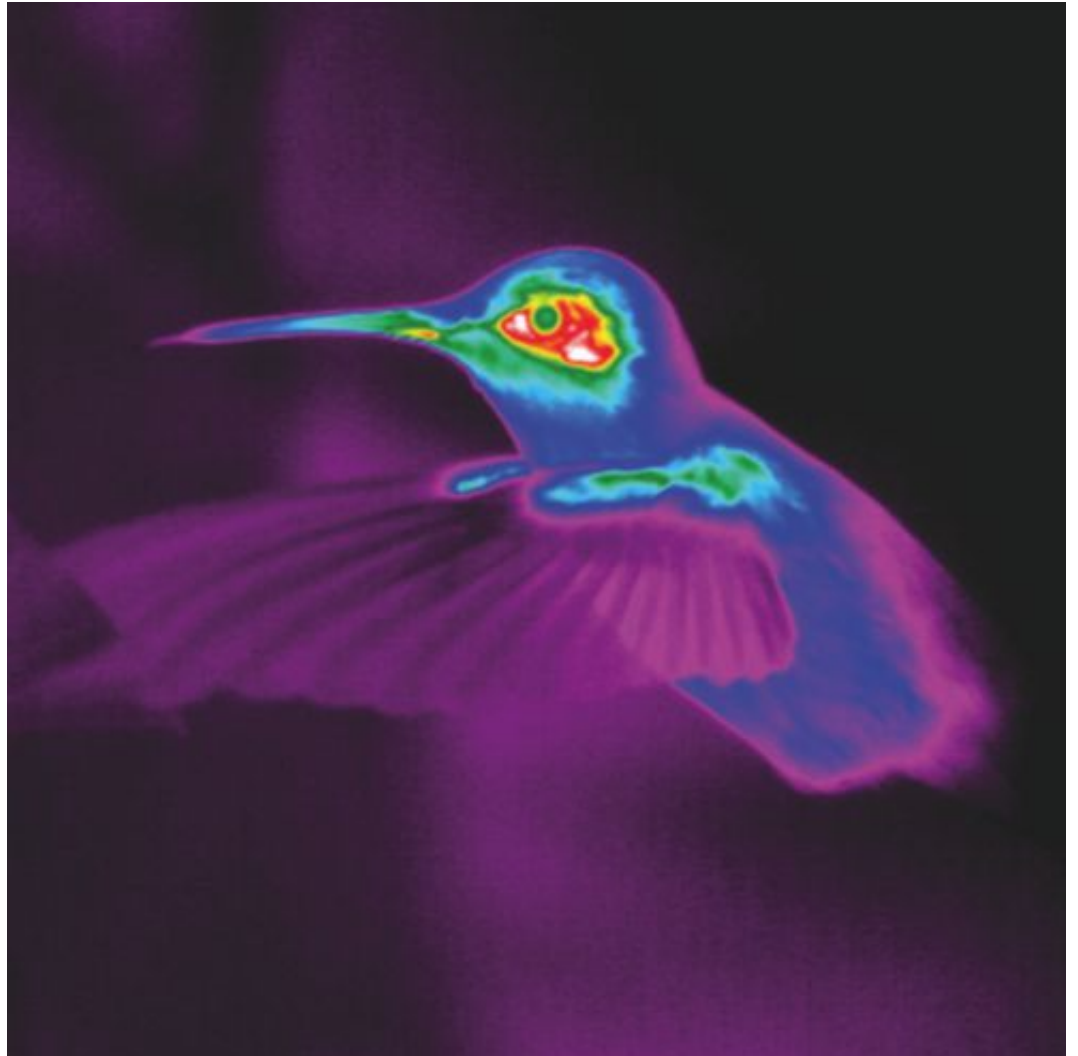


Product Catalog 2018

A hummingbird in infrared.
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Introduction

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Legal disclaimer

All products manufactured by FLIR Systems are warranted against defective materials and workmanship for a period of one (1) year from the delivery date of the original purchase, provided such products have been under normal storage, use and service, and in accordance with FLIR Systems instruction.

Uncooled handheld infrared cameras manufactured by FLIR Systems are warranted against defective materials and workmanship for a period of two (2) years from the delivery date of the original purchase, provided such products have been under normal storage, use and service, and in accordance with FLIR Systems instruction, and provided that the camera has been registered within 60 days of original purchase.

Detectors for uncooled handheld infrared cameras manufactured by FLIR Systems are warranted against defective materials and workmanship for a period of ten (10) years from the delivery date of the original purchase, provided such products have been under normal storage, use and service, and in accordance with FLIR Systems instruction, and provided that the camera has been registered within 60 days of original purchase.

Products which are not manufactured by FLIR Systems but included in systems delivered by FLIR Systems to the original purchaser, carry the warranty, if any, of the particular supplier only. FLIR Systems has no responsibility whatsoever for such products.

The warranty extends only to the original purchaser and is not transferable. It is not applicable to any product which has been subjected to misuse, neglect, accident or abnormal conditions of operation. Expendable parts are excluded from the warranty.

In the case of a defect in a product covered by this warranty the product must not be further used in order to prevent additional damage. The purchaser shall promptly report any defect to FLIR Systems or this warranty will not apply.

FLIR Systems will, at its option, repair or replace any such defective product free of charge if, upon inspection, it proves to be defective in material or workmanship and provided that it is returned to FLIR Systems within the said one-year period.

FLIR Systems has no other obligation or liability for defects than those set forth above.

No other warranty is expressed or implied. FLIR Systems specifically disclaims the implied warranties of merchantability and fitness for a particular purpose.

FLIR Systems shall not be liable for any direct, indirect, special, incidental or consequential loss or damage, whether based on contract, tort or any other legal theory.

This warranty shall be governed by Swedish law.

Any dispute, controversy or claim arising out of or in connection with this warranty, shall be finally settled by arbitration in accordance with the Rules of the Arbitration Institute of the Stockholm Chamber of Commerce. The place of arbitration shall be Stockholm. The language to be used in the arbitral proceedings shall be English.

Usage statistics

FLIR Systems reserves the right to gather anonymous usage statistics to help maintain and improve the quality of our software and services.

Changes to registry

The registry entry:

```
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet  
\Control\Lsa\LmCompatibilityLevel
```

will be automatically changed to level 2 if the FLIR Camera Monitor service detects a FLIR camera connected to the computer with a USB cable. The modification will only be executed if the camera device implements a remote network service that supports network logons.

U.S. Government Regulations

This product may be subject to U.S. Export Regulations. Please send any inquiries to exportquestions@flir.com.

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Quality assurance

The Quality Management System under which these products are developed and manufactured has been certified in accordance with the ISO 9001 standard.

FLIR Systems is committed to a policy of continuous development; therefore we reserve the right to make changes and improvements on any of the products without prior notice.

Patents

One or several of the following patents and/or design patents may apply to the products and/or features. Additional pending patents and/or pending design patents may also apply.

000279476-0001; 000439161; 000499579-0001; 000653423; 000726344; 000859020; 001106306-0001; 001707738; 001707746; 001707787; 001776519; 001954074; 002021543; 002058180; 002249953; 002531178; 0600574-8; 1144833; 1182246; 1182620; 1285345; 1299699; 1325808; 1336775; 1391114; 1402918; 1404291; 1411581; 1415075; 1421497; 1458284; 1678485; 1732314; 2106017; 2107799; 2381417; 3006596; 3006597; 466540; 483782; 484155; 4889913; 5177595; 60122153.2; 602004011681.5-08; 6707044; 68657; 7034300; 7110035; 7154093; 7157705; 7237946; 7312822; 7332716; 7336823; 7544944; 7667198; 7809258 B2; 7826736; 8,153,971; 8,823,803; 8,853,631; 8018649 B2; 8212210 B2; 8289372; 8354639 B2; 8384783; 8520970; 8565547; 8595689; 8599262; 8654239; 8680468; 8803093; D540838; D549758; D579475; D584755; D599,392; D615,113; D664,580; D664,581; D665,004; D665,440; D677298; D710,424 S; D718801; DI6702302-9; DI6903617-9; DI7002221-6; DI7002891-5; DI7002892-3; DI7005799-0; DM/057692; DM/061609; EP 2115696 B1; EP2315433; SE 0700240-5; US 8340414 B2; ZL 201330267619.5; ZL01823221.3; ZL01823226.4; ZL02331553.9; ZL02331554.7; ZL200480034894.0; ZL200530120994.2; ZL200610088759.5; ZL200630130114.4; ZL200730151141.4; ZL200730339504.7; ZL200820105768.8; ZL200830128581.2; ZL200880105236.4; ZL200880105769.2; ZL200930190061.9; ZL201030176127.1; ZL201030176130.3; ZL201030176157.2; ZL201030595931.3; ZL201130442354.9; ZL201230471744.3; ZL201230620731.8.

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Qt4 Core and Qt4 GUI, Copyright ©2013 Nokia Corporation and FLIR Systems. This Qt library is a free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version. This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License, <http://www.gnu.org/licenses/lgpl-2.1.html>. The source code for the libraries Qt4 Core and Qt4 GUI may be requested from FLIR Systems.

User-to-user forums

Exchange ideas, problems, and infrared solutions with fellow thermographers around the world in our user-to-user forums. To go to the forums, visit:

<http://forum.infraredtraining.com/>

Calibration

We recommend that you send in the camera for calibration once a year. Contact your local sales office for instructions on where to send the camera.

Accuracy

For very accurate results, we recommend that you wait 5 minutes after you have started the camera before measuring a temperature.

For cameras where the detector is cooled by a mechanical cooler, this time period excludes the time it takes to cool down the detector.

Disposal of electronic waste



As with most electronic products, this equipment must be disposed of in an environmentally friendly way, and in accordance with existing regulations for electronic waste.

Please contact your FLIR Systems representative for more details.

Training

To read about infrared training, visit:

- <http://www.infraredtraining.com>
- <http://www.irtraining.com>
- <http://www.irtraining.eu>

Documentation updates

Our manuals are updated several times per year, and we also issue product-critical notifications of changes on a regular basis.

To access the latest manuals, translations of manuals, and notifications, go to the Download tab at:

<http://support.flir.com>

In the download area you will also find the latest releases of manuals for our other products, as well as manuals for our historical and obsolete products.

Software updates

FLIR Systems regularly issues software updates and you can update the software using this update service. Depending on your software, this update service is located at one or both of the following locations:

- FLIR Systems > [Software] > Check for updates
- Help > Check for updates.

Additional license information

For each purchased software license, the software may be installed, activated, and used on two devices, e.g., one laptop computer for on-site data acquisition, and one desktop computer for analysis in the office.

FLIR Systems was established in 1978 to pioneer the development of high-performance infrared imaging systems, and is the world leader in the design, manufacture, and marketing of thermal imaging systems for a wide variety of commercial, industrial, and government applications. Today, FLIR Systems embraces five major companies with outstanding achievements in infrared technology since 1958—the Swedish AGEMA Infrared Systems (formerly AGA Infrared Systems), the three United States companies Indigo Systems, FSI, and Inframetrics, and the French company Cedip.

Since 2007, FLIR Systems has acquired several companies with world-leading expertise in sensor technologies:

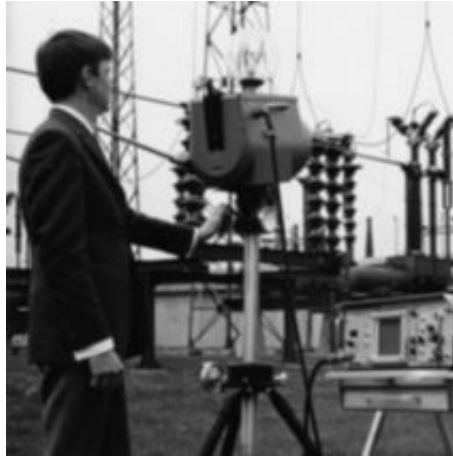
- Extech Instruments (2007)
- Ifara Tecnologías (2008)
- Salvador Imaging (2009)
- OmniTech Partners (2009)
- Directed Perception (2009)
- Raymarine (2010)
- ICx Technologies (2010)
- TackTick Marine Digital Instruments (2011)
- Aerius Photonics (2011)
- Lorex Technology (2012)
- Traficon (2012)
- MARSS (2013)
- DigitalOptics micro-optics business (2013)
- DVTEL (2015)
- Point Grey Research (2016)
- Prox Dynamics (2016)



Patent documents from the early 1960s

FLIR Systems has three manufacturing plants in the United States (Portland, OR, Boston, MA, Santa Barbara, CA) and one in Sweden (Stockholm). Since 2007 there is also a manufacturing plant in Tallinn, Estonia. Direct sales offices in Belgium, Brazil, China, France, Germany, Great Britain, Hong Kong, Italy, Japan, Korea, Sweden, and the USA—together with a worldwide network of agents and distributors—support our international customer base.

FLIR Systems is at the forefront of innovation in the infrared camera industry. We anticipate market demand by constantly improving our existing cameras and developing new ones. The company has set milestones in product design and development such as the introduction of the first battery-operated portable camera for industrial inspections, and the first uncooled infrared camera, to mention just two innovations.



1969: Thermovision Model 661. The camera weighed approximately 25 kg (55 lb.), the oscilloscope 20 kg (44 lb.), and the tripod 15 kg (33 lb.). The operator also needed a 220 VAC generator set, and a 10 L (2.6 US gallon) jar with liquid nitrogen. To the left of the oscilloscope the Polaroid attachment (6 kg/13 lb.) can be seen.



2015: FLIR One, an accessory to iPhone and Android mobile phones. Weight: 90 g (3.2 oz.).

FLIR Systems manufactures all vital mechanical and electronic components of the camera systems itself. From detector design and manufacturing, to lenses and system electronics, to final testing and calibration, all production steps are carried out and supervised by our own engineers. The in-depth expertise of these infrared specialists ensures the accuracy and reliability of all vital components that are assembled into your infrared camera.

More than just an infrared camera

At FLIR Systems we recognize that our job is to go beyond just producing the best infrared camera systems. We are committed to enabling all users of our infrared camera systems to work more productively by providing them with the most powerful camera–software combination. Especially tailored software for predictive maintenance, R & D, and process monitoring is developed in-house. Most software is available in a wide variety of languages.

We support all our infrared cameras with a wide variety of accessories to adapt your equipment to the most demanding infrared applications.

Sharing our knowledge

Although our cameras are designed to be very user-friendly, there is a lot more to thermography than just knowing how to handle a camera. Therefore, FLIR Systems has founded the Infrared Training Center (ITC), a separate business unit, that provides certified training courses. Attending one of the ITC courses will give you a truly hands-on learning experience.

The staff of the ITC are also there to provide you with any application support you may need in putting infrared theory into practice.

Supporting our customers

FLIR Systems operates a worldwide service network to keep your camera running at all times. If you discover a problem with your camera, local service centers have all the



About FLIR Systems

equipment and expertise to solve it within the shortest possible time. Therefore, there is no need to send your camera to the other side of the world or to talk to someone who does not speak your language.

Welcome to ITC, the leading source of knowledge within infrared science and its applications

ITC is present in over 50 countries, and has instructors that speak 22 native languages. We offer everything from short introduction courses to certification courses. Our instructors are among the most knowledgeable people in the industry. ITC is proud that its products and services are compliant with industry, national, and international standards. Join our community, our conferences, or our courses at:

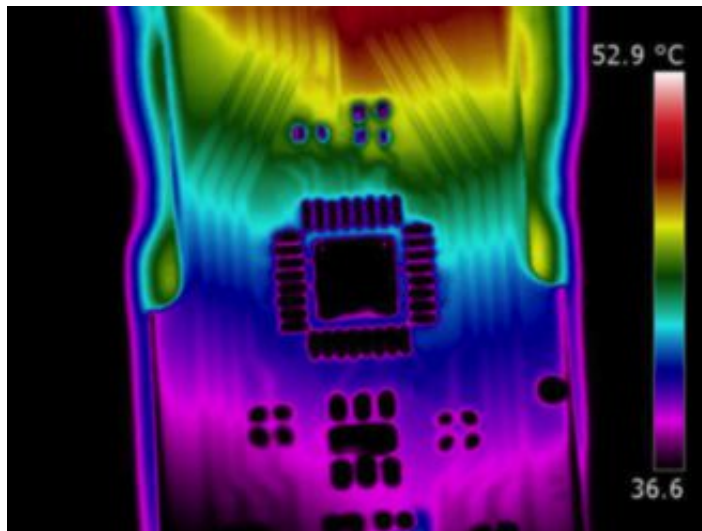
- <http://www.infraredtraining.com>
- <http://www.irtraining.eu>

Level 1 to 3 thermography courses

These courses prepare you for qualification as a certified thermographer. You will learn about infrared physics, camera technology, and thermographic applications and inspections at different levels. The courses include exercises, field studies, discussions, and traditional teaching classes, and end with a closed-book exam.

Advanced application courses

These interdisciplinary courses bridge the gap between infrared thermography, background science, and application theory. You will learn about important scientific concepts in, for example, physics, heat science, and chemistry. You will apply them together with relevant application theory, and thus be able to perform qualified inspections within your field of application on the basis of existing laws, standards, and regulations. The courses end with an exam. A prerequisite for these courses is a valid Level 1 certificate.



Short courses

These courses provide you with the most important basics of infrared thermography theory and applications, camera operation, and software usage. You will learn about the basics of emissivity and reflected apparent temperature and course-related applications. During the hands-on sessions you will operate a camera in different measurement situations. You will also learn how to analyze and report your findings. The courses include practical exercises and key laboratory sessions.

E-learning

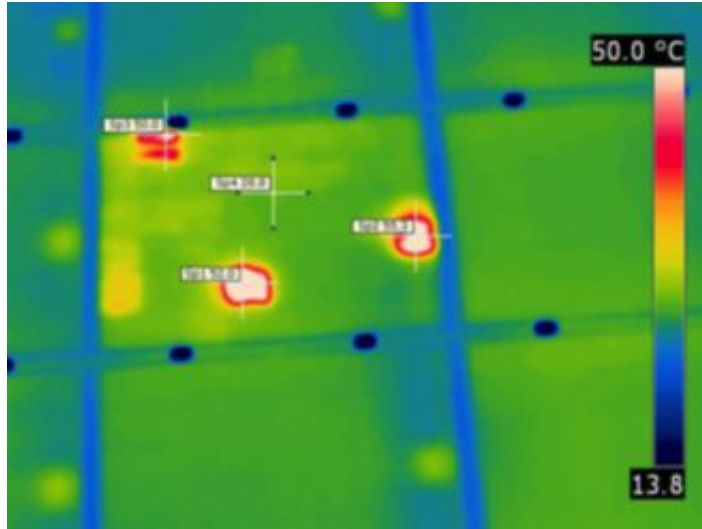
Self-paced 24/7 on-demand online courses are available for infrared thermography basics, different applications, and camera handling. Visit <http://www.irtraining.com>.

In-house classes

On-site training can be customized to your needs. Participants will learn about infrared thermography, inspections, measurements, applications, and reporting corresponding to the level needed to perform measurements and inspection in their working environment. The trainer will provide useful advice on how to best implement infrared thermography in your business.

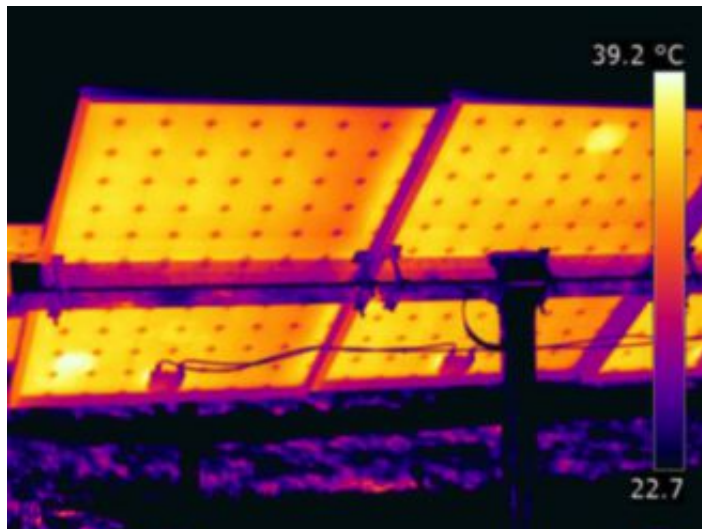
Software courses

In these hands-on classes you will learn to use the relevant FLIR Systems software for your needs. Depending on the software, the emphasis will be on analysis and reporting or camera connection, data acquisition, and analysis.



System training

Certain cameras and infrared measurement equipment require deeper understanding of the software and hardware components. In training classes for CVS, ATS, and automation cameras and products, you will learn about installation, configuration, and integration of the entire system for different applications. You will also learn about image acquisition optimization and image analysis.



Workshops and conferences

In many countries, ITC offers workshops and conferences on different infrared applications as well as user meetings. For information about InfraMation, the world's largest annual infrared applications conference, visit:

<http://www.inframation.org>

For the R&D and automation conference, infraR&D, visit:

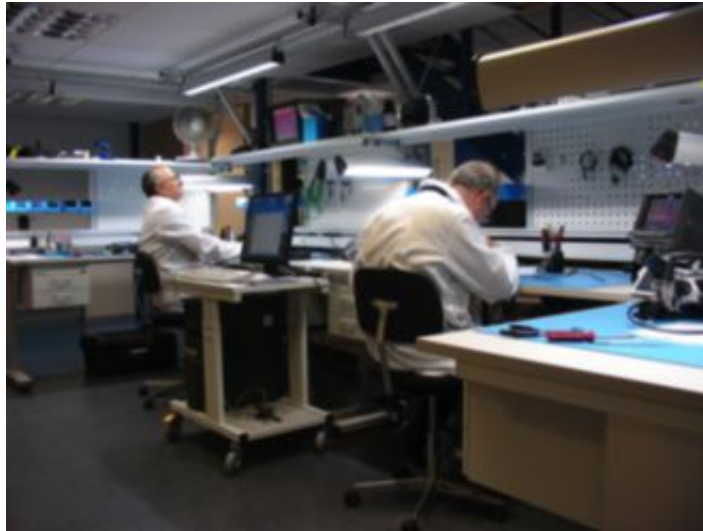
<http://www.infraredforum.eu>

Contact details

- ITC Global operations: itc@flir.se
- ITC Americas: <http://www.infraredtraining.com>
- ITC EMEA: <http://www.irtraining.eu>
- info@irtraining.eu

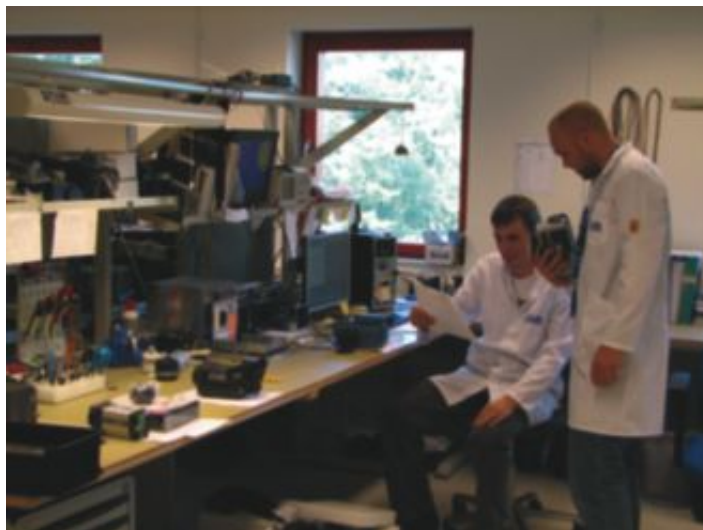
FLIR Systems' qualifications

FLIR Systems is the world's largest manufacturer of commercial-grade infrared cameras, with over 50 years' experience. FLIR Systems builds state-of-the-art, high-performance, field-worthy infrared cameras. We're serious about our infrared cameras and the accuracy of the temperature measurements they produce. It's our core business—and it's our only business. FLIR Systems Service is ISO 9001:2000 certified.



FLIR Systems service

The FLIR Systems service team's mission is to provide the world's best service and support for your high-performance infrared camera and accessories. FLIR Systems offers a variety of service packages to help you gain the most from your investment in an infrared camera. FLIR Systems also recommends its 14 Point Inspection & Calibration program on an annual basis to ensure correct temperature readings.



Service and support

FLIR Systems is committed to providing you with superior customer service and infrared camera support. Our customer service staff is available to take your calls during regular business hours. We have skilled technicians ready to assist you! Software and application support can be found 24 hours a day at:

<http://support.flir.com>



Documentation downloads

At <http://support.flir.com> you can search among more than 2500 manuals, mechanical drawings, and CAD data files from FLIR Systems (over 270,000 pages of technical information). The collection also includes manuals for our obsolete products, as well as manuals from our predecessors and acquired companies AGA, Agema, FSI, Inframetrics, Indigo Systems, and Cedip.

Software downloads

At <http://support.flir.com> you can also download evaluation versions of our software, as well as service packs, patches, bug fixes, etc. Downloading software requires a simple customer registration.

Downloads of datasheets and product catalogs

At <http://support.flir.com> we also provide datasheets and product catalogs for all our products. These publications are re-published every night (CET) to make sure that they contain the very latest information. They are available in A4 and US letter sizes. No customer registration is needed to download these publications.

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FLIR A3xx series

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P/N: 48201-1001

Revision

35207

Last modified

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
The FLIR A300 offers an affordable and accurate temperature measurement solution for anyone who needs to solve problems that do not call for the highest speed or reaction and who uses a PC. Due to its composite video output, it is also an excellent choice for thermal image automation applications, where you can utilize its unique properties such as looking through steam.	
Key features:	
<ul style="list-style-type: none"> • MPEG-4 streaming. • PoE (Power over Ethernet). • Built-in web server. • General purpose I/O. • 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.). • Synchronization through SNTP. • Composite video output. • Multi-camera utility software: FLIR IP Config and FLIR IR Monitor included. • Open and well-described TCP/IP protocol for control and set-up. • 16-bit 320 × 240 pixel images at 3 Hz, radiometric. • Lenses: 25° included, 15° and 45° optional. 	
Typical applications:	
<ul style="list-style-type: none"> • Fire prevention, critical vessel monitoring, and power utility asset management. • Volume-oriented industrial control (multi-camera installation is possible). 	

Imaging and optical data	
IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	25° × 18.8°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	1.36 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	30 Hz
Focus	Automatic or manual (built in motor)
Zoom	1–8× continuous, digital, interpolating zooming on images

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
Detector pitch	25 μm
Detector time constant	Typical 12 ms



FLIR A300

P/N: 48201-1001

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Measurement	
Object temperature range	<ul style="list-style-type: none">-20 to +120°C (-4 to +248°F)0 to +350°C (+32 to +662°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading

Set-up	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature (°C/°F)

Storage of images	
Storage media	Built-in memory for image storage
File formats	Standard JPEG, 16-bit measurement data included

Ethernet	
Ethernet	Control and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary
Ethernet, video streaming	MPEG-4, ISO/IEC 14496-1 MPEG-4 ASP@L5
Ethernet, image streaming	16-bit 320 × 240 pixels @ 3 Hz <ul style="list-style-type: none">Radiometric
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0. <div style="border: 1px solid black; padding: 5px;">NOTE: In cameras manufactured before 2013, due to an error in the implementation of power over Ethernet, in some rare cases the camera will not be powered. In such cases, power the camera using the external power cable, or modify the camera according to Service bulletin SB14-006. For modification, please contact your local service department. See http://support.flir.com/service for contact details.</div>
Ethernet, protocols	TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Digital input/output	
Digital input, purpose	Image tag (start/stop/general), Input ext. device (programmatically read)
Digital input	2 opto-isolated, 0–1.5 V = low, 3–25 V = high
Digital output, purpose	Output to ext. device (programmatically set)
Digital output	2 opto-isolated, ON = supply (max. 100 mA), OFF = open
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	6–24 VDC, max. 200 mA
Digital I/O, connector type	6-pole jackable screw terminal

Composite video	
Video out	Composite video output, PAL and NTSC compatible
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC)



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Website

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Customer support

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Composite video	
Video, connector type	Standard BNC connector

Power system	
External power operation	12/24 VDC, 24 W absolute max.
External power, connector type	2-pole jackable screw terminal
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none">EN 61000-6-2:2001 (Immunity)EN 61000-6-3:2001 (Emission)FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 40 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	0.7 kg (1.54 lb.)
Camera size (L x W x H)	170 x 70 x 70 mm (6.7 x 2.8 x 2.8 in.)
Tripod mounting	UNC ¼"-20 (on three sides)
Base mounting	2 x M4 thread mounting holes (on three sides)
Housing material	Aluminum

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">Infrared camera with lensEthernet cableMains cablePower cable, pig-tailedPower supplyPrinted documentationUtility CD-ROM
Packaging, weight	
Packaging, size	495 x 370 x 192 mm (19.5 x 14.6 x 7.6 in.)
EAN-13	7332558003336
UPC-12	845188003081
Country of origin	Sweden

Supplies & accessories:

- 1196961; IR lens, f = 30 mm, 15° incl. case
- 1196960; IR lens, f = 10 mm, 45° incl. case
- T197215; Close-up 4x (100 µm) incl. case
- T197214; Close-up 2x (50 µm) incl. case
- T197407; IR lens, 76 mm (6°) with case and mounting support for A3xx, A3xxsc
- T197411; IR lens, 4 mm (90°) with case and mounting support for A3xx, A3xxsc
- T197415; Close-up 1x (25 µm) incl. case and mounting support for A3xx, A3xxsc
- T129252; Special temperature range -20 to +700 deg C
- T129253; Special temperature range -20 to +500 deg C
- T129254; High temperature measurement option -20 to +2000 deg C
- T130151; Special temperature range -20 to +2000 deg C
- T130152; Special temperature range +200 to +1200 deg C
- 1910400; Power cord EU



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Website

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Customer support

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- 1910402; Power cord UK
- 1910401; Power cord US
- T911803; Power supply, 24 VDC, 2 A, 50 W
- T910922; Power supply, incl. multi plugs, for A3xx, A3xxsc, A6xx and A6xxsc
- T951004ACC; Ethernet cable CAT6, 2 m/6.6 ft.
- T911307ACC; Ethernet cable, CAT6, 2 m/6.6 ft, 1 screw connector
- 1910586ACC; Power cable, pigtailed
- 908929; Video cable, 3.0 m/9.8 ft.
- T197871ACC; Hard transport case for A3xx/A6xx series
- T197870ACC; Cardboard box for A3xx/A6xx series
- 61301-0002; Fixed Housing for A3xx 25°/45°/90°
- 61301-0001; Fixed Housing for A3xx 7°/15°
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
The FLIR A300 (9 Hz) provides an affordable and accurate temperature measurement solution for anyone who needs to solve problems that do not call for the highest speed or reaction and who uses a PC. Due to its composite video output, it is also an excellent choice for thermal image automation applications, where you can utilize its unique properties such as looking through steam.	
Key features:	
<ul style="list-style-type: none"> • MPEG-4 streaming. • PoE (Power over Ethernet). • Built-in web server. • General purpose I/O. • 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.). • Synchronization through SNTP. • Composite video output. • Multi-camera utility software: FLIR IP Config and FLIR IR Monitor included. • Open and well-described TCP/IP protocol for control and set-up. • 16-bit 320 × 240 pixel images at 3 Hz, radiometric. • Lenses: 25° included, 15° and 45° optional. 	
Typical applications:	
<ul style="list-style-type: none"> • Fire prevention, critical vessel monitoring, and power utility asset management. • Volume-oriented industrial control (multi-camera installation is possible). 	

Imaging and optical data	
IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	25° × 18.8°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	1.36 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	9 Hz
Focus	Automatic or manual (built in motor)
Zoom	1–8× continuous, digital, interpolating zooming on images

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
Detector pitch	25 μm
Detector time constant	Typical 12 ms



FLIR A300 (9 Hz)

P/N: 42701-1001

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Measurement	
Object temperature range	<ul style="list-style-type: none">-20 to +120°C (-4 to +248°F)0 to +350°C (+32 to +662°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading

Set-up	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature (°C/°F)

Storage of images	
Storage media	Built-in memory for image storage
File formats	Standard JPEG, 16-bit measurement data included

Ethernet	
Ethernet	Control and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary
Ethernet, video streaming	MPEG-4, ISO/IEC 14496-1 MPEG-4 ASP@L5
Ethernet, image streaming	16-bit 320 × 240 pixels @ 3 Hz <ul style="list-style-type: none">Radiometric
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0. <div style="border: 1px solid black; padding: 5px;">NOTE: In cameras manufactured before 2013, due to an error in the implementation of power over Ethernet, in some rare cases the camera will not be powered. In such cases, power the camera using the external power cable, or modify the camera according to Service bulletin SB14-006. For modification, please contact your local service department. See http://support.flir.com/service for contact details.</div>
Ethernet, protocols	TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Digital input/output	
Digital input, purpose	Image tag (start/stop/general), Input ext. device (programmatically read)
Digital input	2 opto-isolated, 0–1.5 V = low, 3–25 V = high
Digital output, purpose	Output to ext. device (programmatically set)
Digital output	2 opto-isolated, ON = supply (max. 100 mA), OFF = open
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	6–24 VDC, max. 200 mA
Digital I/O, connector type	6-pole jackable screw terminal

Composite video	
Video out	Composite video output, PAL and NTSC compatible
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC)



FLIR A300 (9 Hz)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Composite video	
Video, connector type	Standard BNC connector

Power system	
External power operation	12/24 VDC, 24 W absolute max.
External power, connector type	2-pole jackable screw terminal
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none">EN 61000-6-2:2001 (Immunity)EN 61000-6-3:2001 (Emission)FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 40 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	0.7 kg (1.54 lb.)
Camera size (L x W x H)	170 x 70 x 70 mm (6.7 x 2.8 x 2.8 in.)
Tripod mounting	UNC ¼"-20 (on three sides)
Base mounting	2 x M4 thread mounting holes (on three sides)
Housing material	Aluminum

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">Infrared camera with lensEthernet cableMains cablePower cable, pig-tailedPower supplyPrinted documentationUtility CD-ROM
Packaging, weight	
Packaging, size	495 x 370 x 192 mm (19.5 x 14.6 x 7.6 in.)
EAN-13	7332558003343
UPC-12	845188003098
Country of origin	Sweden

Supplies & accessories:

- 1196961; IR lens, f = 30 mm, 15° incl. case
- 1196960; IR lens, f = 10 mm, 45° incl. case
- T197215; Close-up 4x (100 µm) incl. case
- T197214; Close-up 2x (50 µm) incl. case
- T197407; IR lens, 76 mm (6°) with case and mounting support for A3xx, A3xxsc
- T197411; IR lens, 4 mm (90°) with case and mounting support for A3xx, A3xxsc
- T197415; Close-up 1x (25 µm) incl. case and mounting support for A3xx, A3xxsc
- T129252; Special temperature range -20 to +700 deg C
- T129253; Special temperature range -20 to +500 deg C
- T129254; High temperature measurement option -20 to +2000 deg C
- T130151; Special temperature range -20 to +2000 deg C
- T130152; Special temperature range +200 to +1200 deg C
- 1910400; Power cord EU



FLIR A300 (9 Hz)

P/N: 42701-1001

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Customer support

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- 1910402; Power cord UK
- 1910401; Power cord US
- T911803; Power supply, 24 VDC, 2 A, 50 W
- T910922; Power supply, incl. multi plugs, for A3xx, A3xxsc, A6xx and A6xxsc
- T951004ACC; Ethernet cable CAT6, 2 m/6.6 ft.
- T911307ACC; Ethernet cable, CAT6, 2 m/6.6 ft, 1 screw connector
- 1910586ACC; Power cable, pigtailed
- 908929; Video cable, 3.0 m/9.8 ft.
- T197871ACC; Hard transport case for A3xx/A6xx series
- T197870ACC; Cardboard box for A3xx/A6xx series
- 61301-0002; Fixed Housing for A3xx 25°/45°/90°
- 61301-0001; Fixed Housing for A3xx 7°/15°
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

P/N: 48201-1101

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

The FLIR A310 offers an affordable and accurate temperature measurement solution for anyone who needs to solve problems that need built in "smartness" such as analysis, alarm functionality and autonomous communication using standard protocols. The FLIR A310 also has all the necessary features and functions to build distributed single- or multi-camera solutions utilizing standard Ethernet hardware and software protocols.

The FLIR A310 also has built in support to connect to industrial control equipment such as PLCs, and allows for sharing of analysis and alarm results and simple control using the Ethernet/IP and Modbus TCP field bus protocols.

Key features:

- Support for Ethernet/IP field bus protocol (analyze, alarm, and simple camera control).
- Support for Modbus TCP field bus protocol (analyze, alarm, and simple camera control).
- Built-in extensive analysis functionality.
- Extensive alarm functionality, as a function of analysis and more.
- On schedule: file sending (FTP) or e-mail (SMTP) of analysis results or images.
- On alarms: file sending (FTP) or e-mail (SMTP) of analysis results or images.
- MPEG-4 streaming.
- PoE (Power over Ethernet).
- Built-in web server.
- General purpose I/O.
- 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.).
- Synchronization through SNTP.
- Composite video output.
- Multi-camera utility software: FLIR IP Config and FLIR IR Monitor included.
- Open and well-described TCP/IP protocol for control and set-up.
- 16-bit 320 × 240 pixel images at 7–8 Hz, radiometric.
- Lenses: 25° included, 15° and 45° optional.

Typical applications:

- Safety with temperature alarms (multi-camera applications), fire prevention, critical vessel monitoring, and power utility asset management.
- Volume-oriented industrial control (multi-camera installation is possible).

Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	25° × 18.8°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	1.36 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	30 Hz
Focus	Automatic or manual (built in motor)
Zoom	1–8× continuous, digital, interpolating zooming on images



FLIR A310

P/N: 48201-1101

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
Detector pitch	25 μm
Detector time constant	Typical 12 ms

Measurement	
Object temperature range	<ul style="list-style-type: none">-20 to +120°C (-4 to +248°F)0 to +350°C (+32 to +662°F)
Accuracy	$\pm 2^\circ\text{C}$ ($\pm 3.6^\circ\text{F}$) or $\pm 2\%$ of reading

Measurement analysis	
Spotmeter	10 (with no image streaming)
Area	10 boxes with max./min./average/position (with no image streaming)
Isotherm	1 with above/below/interval
Measurement option	Measurement Mask Filter Schedule response: File sending (ftp), email (SMTP)
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global and individual object parameters

Alarm	
Alarm functions	6 automatic alarms on any selected measurement function, Digital In, Camera temperature, timer
Alarm output	Digital Out, log, store image, file sending (ftp), email (SMTP), notification

Set-up	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature ($^\circ\text{C}/^\circ\text{F}$)

Storage of images	
Storage media	Built-in memory for image storage
File formats	Standard JPEG, 16-bit measurement data included

Ethernet	
Ethernet	Control, result and image
Ethernet, type	100 Mbps

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Ethernet	
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary
Ethernet, video streaming	MPEG-4, ISO/IEC 14496-1 MPEG-4 ASP@L5
Ethernet, image streaming	16-bit 320 × 240 pixels @ 7-8 Hz <ul style="list-style-type: none"> Radiometric
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0. <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <p>NOTE: In cameras manufactured before 2013, due to an error in the implementation of power over Ethernet, in some rare cases the camera will not be powered. In such cases, power the camera using the external power cable, or modify the camera according to Service bulletin SB14-006. For modification, please contact your local service department. See http://support.flir.com/service for contact details.</p> </div>
Ethernet, protocols	Ethernet/IP, Modbus TCP, TCP, UDP, SNMP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Digital input/output	
Digital input, purpose	Image tag (start/stop/general), Input ext. device (programmatically read)
Digital input	2 opto-isolated, 0–1.5 V = low, 3–25 V = high
Digital output, purpose	As function of ALARM, Output to ext. device (programmatically set)
Digital output	2 opto-isolated, ON = supply (max. 100 mA), OFF = open
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	6–24 VDC, max. 200 mA
Digital I/O, connector type	6-pole jackable screw terminal

Composite video	
Video out	Composite video output, PAL and NTSC compatible
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC)
Video, connector type	Standard BNC connector

Power system	
External power operation	12/24 VDC, 24 W absolute max.
External power, connector type	2-pole jackable screw terminal
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> EN 61000-6-2:2001 (Immunity) EN 61000-6-3:2001 (Emission) FCC 47 CFR Part 15 Class B (Emission)



FLIR A310

P/N: 48201-1101

Revision

46383

Last modified

2017-11-16 16:06 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Environmental data	
Encapsulation	IP 40 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	0.7 kg (1.54 lb.)
Camera size (L x W x H)	170 x 70 x 70 mm (6.7 x 2.8 x 2.8 in.)
Tripod mounting	UNC ¼"-20 (on three sides)
Base mounting	2 x M4 thread mounting holes (on three sides)
Housing material	Aluminum

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">Infrared camera with lensEthernet cableMains cablePower cable, pig-tailedPower supplyPrinted documentationUtility CD-ROM
Packaging, weight	2.85 kg (6.3 lb.)
Packaging, size	495 x 370 x 192 mm (19.5 x 14.6 x 7.6 in.)
EAN-13	7332558003350
UPC-12	845188003104
Country of origin	Sweden

Supplies & accessories:

- 1196961; IR lens, f = 30 mm, 15° incl. case
- 1196960; IR lens, f = 10 mm, 45° incl. case
- T197215; Close-up 4x (100 µm) incl. case
- T197214; Close-up 2x (50 µm) incl. case
- T197407; IR lens, 76 mm (6°) with case and mounting support for A3xx, A3xxsc
- T197411; IR lens, 4 mm (90°) with case and mounting support for A3xx, A3xxsc
- T197415; Close-up 1x (25 µm) incl. case and mounting support for A3xx, A3xxsc
- T129252; Special temperature range -20 to +700 deg C
- T129253; Special temperature range -20 to +500 deg C
- T129254; High temperature measurement option -20 to +2000 deg C
- T130151; Special temperature range -20 to +2000 deg C
- T130152; Special temperature range +200 to +1200 deg C
- 1910400; Power cord EU
- 1910402; Power cord UK
- 1910401; Power cord US
- T911803; Power supply, 24 VDC, 2 A, 50 W
- T910922; Power supply, incl. multi plugs, for A3xx, A3xxsc, A6xx and A6xxsc
- T951004ACC; Ethernet cable CAT6, 2 m/6.6 ft.
- T911307ACC; Ethernet cable, CAT6, 2 m/6.6 ft, 1 screw connector
- 1910586ACC; Power cable, pigtailed
- 908929; Video cable, 3.0 m/9.8 ft.
- T197871ACC; Hard transport case for A3xx/A6xx series
- T197870ACC; Cardboard box for A3xx/A6xx series
- 61301-0002; Fixed Housing for A3xx 25°/45°/90°
- 61301-0001; Fixed Housing for A3xx 7°/15°
- T130090; I/O module MIO-A310-1
- T130091; I/O module MIO-A310-7
- T130169; Thermovision CM, max. 4 cameras
- T130170; Thermovision CM, max. 9 cameras
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

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Website

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Customer support

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General description

The FLIR A310 (9 Hz) provides an affordable and accurate temperature measurement solution for anyone who needs to solve problems that need built in "smartness" such as analysis, alarm functionality, and autonomous communication using standard protocols. The FLIR A310 also has all the necessary features and functions to build distributed single- or multi-camera solutions utilizing standard Ethernet hardware and software protocols.

The FLIR A310 also has built in support to connect to industrial control equipment such as PLCs, and allows for sharing of analysis and alarm results and simple control using the Ethernet/IP and Modbus TCP field bus protocols.

Key features:

- Support for the Ethernet/IP field bus protocol (analyze, alarm, and simple camera control).
- Support for the Modbus TCP field bus protocol (analyze, alarm, and simple camera control).
- Built-in extensive analysis functionality.
- Extensive alarm functionality, as a function of analysis and more.
- On schedule: file sending (FTP) or e-mail (SMTP) of analysis results or images.
- On alarms: file sending (FTP) or e-mail (SMTP) of analysis results or images.
- MPEG-4 streaming.
- PoE (Power over Ethernet).
- Built-in web server.
- General purpose I/O.
- 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.).
- Synchronization through SNTP.
- Composite video output.
- Multi-camera utility software: FLIR IP Config and FLIR IR Monitor included.
- Open and well-described TCP/IP protocol for control and set-up.
- 16-bit 320 × 240 pixel images at 4.5 Hz, radiometric.
- Lenses: 25° included, 15° and 45° optional.

Typical applications:

- Safety with temperature alarms (multi-camera applications), fire prevention, critical vessel monitoring, and power utility asset management.
- Volume-oriented industrial control (multi-camera installation is possible).

Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	25° × 18.8°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	1.36 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	9 Hz
Focus	Automatic or manual (built in motor)
Zoom	1–8× continuous, digital, interpolating zooming on images

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
Detector pitch	25 μm
Detector time constant	Typical 12 ms

Measurement	
Object temperature range	<ul style="list-style-type: none"> -20 to +120°C (-4 to +248°F) 0 to +350°C (+32 to +662°F)
Accuracy	$\pm 2^\circ\text{C}$ ($\pm 3.6^\circ\text{F}$) or $\pm 2\%$ of reading

Measurement analysis	
Spotmeter	10 (with no image streaming)
Area	10 boxes with max./min./average/position (with no image streaming)
Isotherm	1 with above/below/interval
Measurement option	Measurement Mask Filter Schedule response: File sending (ftp), email (SMTP)
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global and individual object parameters

Alarm	
Alarm functions	6 automatic alarms on any selected measurement function, Digital In, Camera temperature, timer
Alarm output	Digital Out, log, store image, file sending (ftp), email (SMTP), notification

Set-up	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature ($^\circ\text{C}/^\circ\text{F}$)

Storage of images	
Storage media	Built-in memory for image storage
File formats	Standard JPEG, 16-bit measurement data included

Ethernet	
Ethernet	Control, result and image
Ethernet, type	100 Mbps



FLIR A310 (9 Hz)

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Ethernet	
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary
Ethernet, video streaming	MPEG-4, ISO/IEC 14496-1 MPEG-4 ASP@L5
Ethernet, image streaming	16-bit 320 × 240 pixels @ 4.5 Hz <ul style="list-style-type: none"> Radiometric
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0. <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <p>NOTE: In cameras manufactured before 2013, due to an error in the implementation of power over Ethernet, in some rare cases the camera will not be powered. In such cases, power the camera using the external power cable, or modify the camera according to Service bulletin SB14-006. For modification, please contact your local service department. See http://support.flir.com/service for contact details.</p> </div>
Ethernet, protocols	Ethernet/IP, Modbus TCP, TCP, UDP, SNMP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Digital input/output	
Digital input, purpose	Image tag (start/stop/general), Input ext. device (programmatically read)
Digital input	2 opto-isolated, 0–1.5 V = low, 3–25 V = high
Digital output, purpose	As function of ALARM, Output to ext. device (programmatically set)
Digital output	2 opto-isolated, ON = supply (max. 100 mA), OFF = open
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	6–24 VDC, max. 200 mA
Digital I/O, connector type	6-pole jackable screw terminal

Composite video	
Video out	Composite video output, PAL and NTSC compatible
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC)
Video, connector type	Standard BNC connector

Power system	
External power operation	12/24 VDC, 24 W absolute max.
External power, connector type	2-pole jackable screw terminal
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> EN 61000-6-2:2001 (Immunity) EN 61000-6-3:2001 (Emission) FCC 47 CFR Part 15 Class B (Emission)



FLIR A310 (9 Hz)

P/N: 42701-1101

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Website

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<http://support.flir.com>

Environmental data	
Encapsulation	IP 40 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	0.7 kg (1.54 lb.)
Camera size (L x W x H)	170 x 70 x 70 mm (6.7 x 2.8 x 2.8 in.)
Tripod mounting	UNC ¼"-20 (on three sides)
Base mounting	2 x M4 thread mounting holes (on three sides)
Housing material	Aluminum

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">Infrared camera with lensEthernet cableMains cablePower cable, pig-tailedPower supplyPrinted documentationUtility CD-ROM
Packaging, weight	
Packaging, size	495 x 370 x 192 mm (19.5 x 14.6 x 7.6 in.)
EAN-13	7332558003367
UPC-12	845188003111
Country of origin	Sweden

Supplies & accessories:

- 1196961; IR lens, f = 30 mm, 15° incl. case
- 1196960; IR lens, f = 10 mm, 45° incl. case
- T197215; Close-up 4x (100 µm) incl. case
- T197214; Close-up 2x (50 µm) incl. case
- T197407; IR lens, 76 mm (6°) with case and mounting support for A3xx, A3xxsc
- T197411; IR lens, 4 mm (90°) with case and mounting support for A3xx, A3xxsc
- T197415; Close-up 1x (25 µm) incl. case and mounting support for A3xx, A3xxsc
- T129252; Special temperature range -20 to +700 deg C
- T129253; Special temperature range -20 to +500 deg C
- T129254; High temperature measurement option -20 to +2000 deg C
- T130151; Special temperature range -20 to +2000 deg C
- T130152; Special temperature range +200 to +1200 deg C
- 1910400; Power cord EU
- 1910402; Power cord UK
- 1910401; Power cord US
- T911803; Power supply, 24 VDC, 2 A, 50 W
- T910922; Power supply, incl. multi plugs, for A3xx, A3xxsc, A6xx and A6xxsc
- T951004ACC; Ethernet cable CAT6, 2 m/6.6 ft.
- T911307ACC; Ethernet cable, CAT6, 2 m/6.6 ft, 1 screw connector
- 1910586ACC; Power cable, pigtailed
- 908929; Video cable, 3.0 m/9.8 ft.
- T197871ACC; Hard transport case for A3xx/A6xx series
- T197870ACC; Cardboard box for A3xx/A6xx series
- 61301-0002; Fixed Housing for A3xx 25°/45°/90°
- 61301-0001; Fixed Housing for A3xx 7°/15°
- T130090; I/O module MIO-A310-1
- T130091; I/O module MIO-A310-7
- T130169; Thermovision CM, max. 4 cameras
- T130170; Thermovision CM, max. 9 cameras
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

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Website

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Customer support

<http://support.flir.com>



General description

The FLIR A315 has features and functions that make it the natural choice for anyone who uses PC software to solve problems and for whom 320 × 240 pixel resolution is sufficient. Among its main features are GigE Vision and GenICam compliance, which makes it plug-and-play when used with software packages such as IMAQ Vision and Halcon.

Key features:

- Affordable.
- GigE compliant.
- GenICam compliant.
- Trigg/synchronization/GPIO.
- 16-bit 320 × 240 pixel images at 60 Hz, signal, temperature linear, and radiometric.
- Compliant with any software that supports GenICam, including National Instruments IMAQ Vision and Stemmers Common Vision Blox.
- Lenses: 25° included, 15° and 45° optional.

Typical applications:

- High-end infrared machine vision that requires temperature measurement.
- Slag detection.
- Food processing.
- Electronics testing.
- Power resistor testing.
- Automotive.

Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	25° × 18.8°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	1.36 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	60 Hz
Focus	Automatic or manual (built in motor)

Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
Detector pitch	25 μm
Detector time constant	Typical 12 ms

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Measurement	
Object temperature range	<ul style="list-style-type: none"> -20 to +120°C (-4 to +248°F) 0 to +350°C (+32 to +662°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading

Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary and GenICam protocol
Ethernet, image streaming	16-bit 320 × 240 pixels @ 60 Hz <ul style="list-style-type: none"> Signal linear Temperature linear Radiometric GigE Vision and GenICam compatible
Ethernet, protocols	TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Digital input/output	
Digital input, purpose	Image tag (start, stop, general), Image flow control, (stream on/off), Input ext. device (programmatically read)
Digital input	2 opto-isolated, 0–1.5 V = low, 3–25 V = high
Digital output, purpose	Output to ext. device (programmatically set)
Digital output	2 opto-isolated, ON = supply (max. 100 mA), OFF = open
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	6–24 VDC, max. 200 mA
Digital I/O, connector type	6-pole jackable screw terminal

Power system	
External power operation	12/24 VDC, 24 W absolute max.
External power, connector type	2-pole jackable screw terminal
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	-15°C to +50°C (+5°F to +122°F)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Environmental data	
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> EN 61000-6-2:2001 (Immunity) EN 61000-6-3:2001 (Emission) FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 40 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	0.7 kg (1.54 lb.)
Camera size (L x W x H)	170 x 70 x 70 mm (6.7 x 2.8 x 2.8 in.)
Tripod mounting	UNC ¼"-20 (on three sides)
Base mounting	2 x M4 thread mounting holes (on three sides)
Housing material	Aluminum

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> Infrared camera with lens Ethernet cable Mains cable Power cable, pig-tailed Power supply Printed documentation Utility CD-ROM
Packaging, weight	
Packaging, size	495 x 370 x 192 mm (19.5 x 14.6 x 7.6 in.)
EAN-13	7332558003374
UPC-12	845188003128
Country of origin	Sweden

Supplies & accessories:

- 1196961; IR lens, f = 30 mm, 15° incl. case
- 1196960; IR lens, f = 10 mm, 45° incl. case
- T197215; Close-up 4x (100 µm) incl. case
- T197214; Close-up 2x (50 µm) incl. case
- T197407; IR lens, 76 mm (6°) with case and mounting support for A3xx, A3xxsc
- T197411; IR lens, 4 mm (90°) with case and mounting support for A3xx, A3xxsc
- T197415; Close-up 1x (25 µm) incl. case and mounting support for A3xx, A3xxsc
- T129252; Special temperature range -20 to +700 deg C
- T129253; Special temperature range -20 to +500 deg C
- T129254; High temperature measurement option -20 to +2000 deg C
- T130151; Special temperature range -20 to +2000 deg C
- T130152; Special temperature range +200 to +1200 deg C
- 1910400; Power cord EU
- 1910402; Power cord UK
- 1910401; Power cord US
- T911803; Power supply, 24 VDC, 2 A, 50 W
- T910922; Power supply, incl. multi plugs, for A3xx, A3xxsc, A6xx and A6xxsc
- T951004ACC; Ethernet cable CAT6, 2 m/6.6 ft.
- T911307ACC; Ethernet cable, CAT6, 2 m/6.6 ft, 1 screw connector
- 1910586ACC; Power cable, pigtailed
- T197871ACC; Hard transport case for A3xx/A6xx series
- T197870ACC; Cardboard box for A3xx/A6xx series
- 61301-0002; Fixed Housing for A3xx 25°/45°/90°
- 61301-0001; Fixed Housing for A3xx 7°/15°
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T199233; FLIR Atlas SDK for .NET



FLIR A315

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- T199234; FLIR Atlas SDK for MATLAB
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

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General description

The FLIR A315 (9 Hz) has features and functions that make it the natural choice for anyone who uses PC software to solve problems and for whom 320 × 240 pixel resolution is sufficient. Among its main features are GigE Vision and GenICam compliance, which makes it plug-and-play when used with software packages such as IMAQ Vision and Halcon.

Key features:

- Affordable.
- GigE compliant.
- GenICam compliant.
- Trigg/synchronization/GPIO.
- 16-bit 320 × 240 pixel images at 9 Hz, signal, temperature linear, and radiometric.
- Compliant with any software that supports GenICam, including National Instruments IMAQ Vision and Stemmers Common Vision Blox.
- Lenses: 25° included, 15° and 45° optional.

Typical applications:

- High-end infrared machine vision requiring temperature measurement.
- Slag detection.
- Food processing.
- Electronics testing.
- Power resistor testing.
- Automotive.

Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	25° × 18.8°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	1.36 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	9 Hz
Focus	Automatic or manual (built in motor)

Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
Detector pitch	25 μm
Detector time constant	Typical 12 ms



FLIR A315 (9 Hz)

P/N: 42901-1101

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2016-04-27 09:29 UTC+1

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Measurement	
Object temperature range	<ul style="list-style-type: none">-20 to +120°C (-4 to +248°F)0 to +350°C (+32 to +662°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading

Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary and GenICam protocol
Ethernet, image streaming	16-bit 320 × 240 pixels @ 9 Hz <ul style="list-style-type: none">Signal linearTemperature linearRadiometric GigE Vision and GenICam compatible
Ethernet, protocols	TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Digital input/output	
Digital input, purpose	Image tag (start, stop, general), Image flow control, (stream on/off), Input ext. device (programmatically read)
Digital input	2 opto-isolated, 0–1.5 V = low, 3–25 V = high
Digital output, purpose	Output to ext. device (programmatically set)
Digital output	2 opto-isolated, ON = supply (max. 100 mA), OFF = open
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	6–24 VDC, max. 200 mA
Digital I/O, connector type	6-pole jackable screw terminal

Power system	
External power operation	12/24 VDC, 24 W absolute max.
External power, connector type	2-pole jackable screw terminal
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	-15°C to +50°C (+5°F to +122°F)

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Environmental data	
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> EN 61000-6-2:2001 (Immunity) EN 61000-6-3:2001 (Emission) FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 40 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	0.7 kg (1.54 lb.)
Camera size (L x W x H)	170 x 70 x 70 mm (6.7 x 2.8 x 2.8 in.)
Tripod mounting	UNC ¼"-20 (on three sides)
Base mounting	2 x M4 thread mounting holes (on three sides)
Housing material	Aluminum

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> Infrared camera with lens Ethernet cable Mains cable Power cable, pig-tailed Power supply Printed documentation Utility CD-ROM
Packaging, weight	
Packaging, size	495 x 370 x 192 mm (19.5 x 14.6 x 7.6 in.)
EAN-13	7332558003381
UPC-12	845188003135
Country of origin	Sweden

Supplies & accessories:

- 1196961; IR lens, f = 30 mm, 15° incl. case
- 1196960; IR lens, f = 10 mm, 45° incl. case
- T197215; Close-up 4x (100 µm) incl. case
- T197214; Close-up 2x (50 µm) incl. case
- T197407; IR lens, 76 mm (6°) with case and mounting support for A3xx, A3xxsc
- T197411; IR lens, 4 mm (90°) with case and mounting support for A3xx, A3xxsc
- T197415; Close-up 1x (25 µm) incl. case and mounting support for A3xx, A3xxsc
- T129252; Special temperature range -20 to +700 deg C
- T129253; Special temperature range -20 to +500 deg C
- T129254; High temperature measurement option -20 to +2000 deg C
- T130151; Special temperature range -20 to +2000 deg C
- T130152; Special temperature range +200 to +1200 deg C
- 1910400; Power cord EU
- 1910402; Power cord UK
- 1910401; Power cord US
- T911803; Power supply, 24 VDC, 2 A, 50 W
- T910922; Power supply, incl. multi plugs, for A3xx, A3xxsc, A6xx and A6xxsc
- T951004ACC; Ethernet cable CAT6, 2 m/6.6 ft.
- T911307ACC; Ethernet cable, CAT6, 2 m/6.6 ft, 1 screw connector
- 1910586ACC; Power cable, pigtailed
- T197871ACC; Hard transport case for A3xx/A6xx series
- T197870ACC; Cardboard box for A3xx/A6xx series
- 61301-0002; Fixed Housing for A3xx 25°/45°/90°
- 61301-0001; Fixed Housing for A3xx 7°/15°
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T199233; FLIR Atlas SDK for .NET



FLIR A315 (9 Hz)

P/N: 42901-1101

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Website

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Customer support

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- T199234; FLIR Atlas SDK for MATLAB
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

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General description

The FLIR A320 Tempscreen is a camera preconfigured to work well in applications where you want to find temperature deviations in a population of people, utilizing difference temperature alarms with a dynamically updated reference temperature.

In addition, the FLIR A320 Tempscreen offers an affordable and accurate temperature measurement solution for anyone who needs to solve problems that need built in "smartness" such as analysis, alarm functionality and autonomous communication using standard protocols. The FLIR A320 Tempscreen also has all the necessary features and functions to build distributed single- or multi-camera solutions utilizing standard Ethernet hardware and software protocols.

Key features:

- Screening: difference temperature alarm with a dynamic updated reference temperature (visualized by the isotherm).
- Built-in extensive analysis functionality.
- Extensive alarm functionality, as a function of analysis and more.
- On schedule: file sending (FTP) or e-mail (SMTP) of analysis results or images.
- On alarms: file sending (FTP) or e-mail (SMTP) of analysis results or images.
- MPEG-4 streaming.
- PoE (Power over Ethernet).
- Built-in web server.
- General purpose I/O.
- 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.).
- Synchronization through SNTP.
- Composite video output.
- Multi-camera utility software: FLIR IP Config and FLIR IR Monitor included.
- Open and well-described TCP/IP protocol for control and set-up.
- 16-bit 320 × 240 pixel images semi-real time, signal and temperature linear.
- Lenses: 25° included, 15° and 45° optional.

Typical applications:

- Safety with temperature alarms (multi-camera applications), fire prevention, critical vessel monitoring, and power utility asset management.
- Volume-oriented industrial control (multi-camera installation is possible).

Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	25° × 18.8°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	1.36 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	30 Hz
Focus	Automatic or manual (built in motor)
Zoom	1–8× continuous, digital, interpolating zooming on images



FLIR A320 Tempscreen

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
Detector pitch	25 μm
Detector time constant	Typical 12 ms

Measurement	
Object temperature range	<ul style="list-style-type: none"> -20 to +120°C (-4 to +248°F) 0 to +350°C (+32 to +662°F)
Accuracy	$\pm 2^\circ\text{C}$ ($\pm 3.6^\circ\text{F}$) or $\pm 2\%$ of reading

Measurement analysis	
Spotmeter	4
Area	4 boxes with max./min./average/position
Isotherm	1 with above/below/interval
Measurement option	Measurement Mask Filter Schedule response: File sending (ftp), email (SMTP)
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global and individual object parameters

Alarm	
Alarm functions	6 automatic alarms on any selected measurement function, Digital In, Camera temperature, timer
Screening	Difference temperature alarm with dynamic updated reference temperature (visualized by the isotherm)
Alarm output	Digital Out, log, store image, file sending (ftp), email (SMTP), notification

Set-up	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature ($^\circ\text{C}/^\circ\text{F}$)

Storage of images	
Storage media	Built-in memory for image storage
File formats	Standard JPEG, 16-bit measurement data included

Ethernet	
Ethernet	Control, result and image



FLIR A320 Tempscreen

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Website

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Customer support

<http://support.flir.com>

Ethernet	
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary
Ethernet, video streaming	MPEG-4, ISO/IEC 14496-1 MPEG-4 ASP@L5
Ethernet, image streaming	16-bit 320 × 240 pixels <ul style="list-style-type: none">• Signal linear• Temperature linear• Radiometric
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0. NOTE: In cameras manufactured before 2013, due to an error in the implementation of power over Ethernet, in some rare cases the camera will not be powered. In such cases, power the camera using the external power cable, or modify the camera according to Service bulletin SB14-006. For modification, please contact your local service department. See http://support.flir.com/service for contact details.
Ethernet, protocols	TCP, UDP, SNMP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Digital input/output	
Digital input, purpose	Image tag (start/stop/general), Input ext. device (programmatically read)
Digital input	2 opto-isolated, 0–1.5 V = low, 3–25 V = high
Digital output, purpose	As function of ALARM, Output to ext. device (programmatically set)
Digital output	2 opto-isolated, ON = supply (max. 100 mA), OFF = open
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	6–24 VDC, max. 200 mA
Digital I/O, connector type	6-pole jackable screw terminal

Composite video	
Video out	Composite video output, PAL and NTSC compatible
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC)
Video, connector type	Standard BNC connector

Power system	
External power operation	12/24 VDC, 24 W absolute max.
External power, connector type	2-pole jackable screw terminal
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)

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Website

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Customer support

<http://support.flir.com>

Environmental data	
EMC	<ul style="list-style-type: none"> EN 61000-6-2:2001 (Immunity) EN 61000-6-3:2001 (Emission) FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 40 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	0.7 kg (1.54 lb.)
Camera size (L x W x H)	170 x 70 x 70 mm (6.7 x 2.8 x 2.8 in.)
Tripod mounting	UNC 1/4"-20 (on three sides)
Base mounting	2 x M4 thread mounting holes (on three sides)
Housing material	Aluminum

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> Infrared camera with lens Ethernet cable Mains cable Power cable, pig-tailed Power supply Printed documentation Utility CD-ROM
Packaging, weight	
Packaging, size	495 x 370 x 192 mm (19.5 x 14.6 x 7.6 in.)
EAN-13	7332558003398
UPC-12	845188003142
Country of origin	Sweden

Supplies & accessories:

- 1196961; IR lens, f = 30 mm, 15° incl. case
- 1196960; IR lens, f = 10 mm, 45° incl. case
- T197215; Close-up 4x (100 µm) incl. case
- T197214; Close-up 2x (50 µm) incl. case
- T197407; IR lens, 76 mm (6°) with case and mounting support for A3xx, A3xxsc
- T197411; IR lens, 4 mm (90°) with case and mounting support for A3xx, A3xxsc
- T197415; Close-up 1x (25 µm) incl. case and mounting support for A3xx, A3xxsc
- T129252; Special temperature range -20 to +700 deg C
- T129253; Special temperature range -20 to +500 deg C
- T129254; High temperature measurement option -20 to +2000 deg C
- T130151; Special temperature range -20 to +2000 deg C
- T130152; Special temperature range +200 to +1200 deg C
- 1910400; Power cord EU
- 1910402; Power cord UK
- 1910401; Power cord US
- T911803; Power supply, 24 VDC, 2 A, 50 W
- T910922; Power supply, incl. multi plugs, for A3xx, A3xxsc, A6xx and A6xxsc
- T951004ACC; Ethernet cable CAT6, 2 m/6.6 ft.
- T911307ACC; Ethernet cable, CAT6, 2 m/6.6 ft, 1 screw connector
- 1910586ACC; Power cable, pigtailed
- 908929; Video cable, 3.0 m/9.8 ft.
- T197871ACC; Hard transport case for A3xx/A6xx series
- T197870ACC; Cardboard box for A3xx/A6xx series
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)



FLIR A320 Tempscreen

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Customer support

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- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

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Customer support

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General description

The FLIR A320 Tempscreen (9 Hz) is a camera preconfigured to work well in applications where you need to find temperature deviations in a population of people, utilizing difference temperature alarms with a dynamically updated reference temperature.

In addition, the FLIR A320 Tempscreen provides an affordable and accurate temperature measurement solution for anyone who needs to solve problems that need built in "smartness" such as analysis, alarm functionality, and autonomous communication using standard protocols. The FLIR A320 Tempscreen also has all the necessary features and functions to build distributed single- or multi-camera solutions utilizing standard Ethernet hardware and software protocols.

Key features:

- Screening: difference temperature alarm with a dynamic updated reference temperature (visualized by the isotherm).
- Built-in extensive analysis functionality.
- Extensive alarm functionality, as a function of analysis and more.
- On schedule: file sending (FTP) or e-mail (SMTP) of analysis results or images.
- On alarms: file sending (FTP) or e-mail (SMTP) of analysis results or images.
- MPEG-4 streaming.
- PoE (Power over Ethernet).
- Built-in web server.
- General purpose I/O.
- 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.).
- Synchronization through SNTP.
- Composite video output.
- Multi-camera utility software: FLIR IP Config and FLIR IR Monitor included.
- Open and well-described TCP/IP protocol for control and set-up.
- 16-bit 320 × 240 pixel images semi-real time, signal and temperature linear.
- Lenses: 25° included, 15° and 45° optional.

Typical applications:

- Safety with temperature alarms (multi-camera applications), fire prevention, critical vessel monitoring, and power utility asset management.
- Volume-oriented industrial control (multi-camera installation is possible).

Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	25° × 18.8°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	1.36 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	9 Hz
Focus	Automatic or manual (built in motor)
Zoom	1–8× continuous, digital, interpolating zooming on images



FLIR A320 Tempscreen (9 Hz)

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Website

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Customer support

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Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
Detector pitch	25 μm
Detector time constant	Typical 12 ms

Measurement	
Object temperature range	<ul style="list-style-type: none">-20 to +120°C (-4 to +248°F)0 to +350°C (+32 to +662°F)
Accuracy	$\pm 2^\circ\text{C}$ ($\pm 3.6^\circ\text{F}$) or $\pm 2\%$ of reading

Measurement analysis	
Spotmeter	4
Area	4 boxes with max./min./average/position
Isotherm	1 with above/below/interval
Measurement option	Measurement Mask Filter Schedule response: File sending (ftp), email (SMTP)
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global and individual object parameters

Alarm	
Alarm functions	6 automatic alarms on any selected measurement function, Digital In, Camera temperature, timer
Screening	Difference temperature alarm with dynamic updated reference temperature (visualized by the isotherm)
Alarm output	Digital Out, log, store image, file sending (ftp), email (SMTP), notification

Set-up	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature ($^\circ\text{C}/^\circ\text{F}$)

Storage of images	
Storage media	Built-in memory for image storage
File formats	Standard JPEG, 16-bit measurement data included

Ethernet	
Ethernet	Control, result and image



FLIR A320 Tempscreen (9 Hz)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Ethernet	
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary
Ethernet, video streaming	MPEG-4, ISO/IEC 14496-1 MPEG-4 ASP@L5
Ethernet, image streaming	16-bit 320 × 240 pixels <ul style="list-style-type: none">• Signal linear• Temperature linear• Radiometric
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0. NOTE: In cameras manufactured before 2013, due to an error in the implementation of power over Ethernet, in some rare cases the camera will not be powered. In such cases, power the camera using the external power cable, or modify the camera according to Service bulletin SB14-006. For modification, please contact your local service department. See http://support.flir.com/service for contact details.
Ethernet, protocols	TCP, UDP, SNMP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Digital input/output	
Digital input, purpose	Image tag (start/stop/general), Input ext. device (programmatically read)
Digital input	2 opto-isolated, 0–1.5 V = low, 3–25 V = high
Digital output, purpose	As function of ALARM, Output to ext. device (programmatically set)
Digital output	2 opto-isolated, ON = supply (max. 100 mA), OFF = open
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	6–24 VDC, max. 200 mA
Digital I/O, connector type	6-pole jackable screw terminal

Composite video	
Video out	Composite video output, PAL and NTSC compatible
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC)
Video, connector type	Standard BNC connector

Power system	
External power operation	12/24 VDC, 24 W absolute max.
External power, connector type	2-pole jackable screw terminal
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)



FLIR A320 Tempscreen (9 Hz)

P/N: 42701-1201

Revision

35207

Last modified

2016-04-27 09:29 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Environmental data	
EMC	<ul style="list-style-type: none">EN 61000-6-2:2001 (Immunity)EN 61000-6-3:2001 (Emission)FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 40 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	0.7 kg (1.54 lb.)
Camera size (L x W x H)	170 x 70 x 70 mm (6.7 x 2.8 x 2.8 in.)
Tripod mounting	UNC 1/4"-20 (on three sides)
Base mounting	2 x M4 thread mounting holes (on three sides)
Housing material	Aluminum

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">Infrared camera with lensEthernet cableMains cablePower cable, pig-tailedPower supplyPrinted documentationUtility CD-ROM
Packaging, weight	
Packaging, size	495 x 370 x 192 mm (19.5 x 14.6 x 7.6 in.)
EAN-13	7332558003404
UPC-12	845188003159
Country of origin	Sweden

Supplies & accessories:

- 1196961; IR lens, f = 30 mm, 15° incl. case
- 1196960; IR lens, f = 10 mm, 45° incl. case
- T197215; Close-up 4x (100 µm) incl. case
- T197214; Close-up 2x (50 µm) incl. case
- T197407; IR lens, 76 mm (6°) with case and mounting support for A3xx, A3xxsc
- T197411; IR lens, 4 mm (90°) with case and mounting support for A3xx, A3xxsc
- T197415; Close-up 1x (25 µm) incl. case and mounting support for A3xx, A3xxsc
- T129252; Special temperature range -20 to +700 deg C
- T129253; Special temperature range -20 to +500 deg C
- T129254; High temperature measurement option -20 to +2000 deg C
- T130151; Special temperature range -20 to +2000 deg C
- T130152; Special temperature range +200 to +1200 deg C
- 1910400; Power cord EU
- 1910402; Power cord UK
- 1910401; Power cord US
- T911803; Power supply, 24 VDC, 2 A, 50 W
- T910922; Power supply, incl. multi plugs, for A3xx, A3xxsc, A6xx and A6xxsc
- T951004ACC; Ethernet cable CAT6, 2 m/6.6 ft.
- T911307ACC; Ethernet cable, CAT6, 2 m/6.6 ft, 1 screw connector
- 1910586ACC; Power cable, pigtailed
- 908929; Video cable, 3.0 m/9.8 ft.
- T197871ACC; Hard transport case for A3xx/A6xx series
- T197870ACC; Cardboard box for A3xx/A6xx series
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)



FLIR A320 Tempscreen (9 Hz)

P/N: 42701-1201

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Website

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Customer support

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- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

P/N: 48001-1001

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Website

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Customer support

<http://support.flir.com>



General description	
The FLIR A325sc is an excellent choice for those working in R&D and need high frame rates but for whom 320 × 240 pixel resolution is sufficient. When using the camera in R&D, it is highly recommended to use the FLIR ResearchIR software from FLIR Systems.	
Key features:	
<ul style="list-style-type: none"> Affordable. 16-bit 320 × 240 pixel images at 60 Hz. Start-and-stop recording in FLIR ResearchIR using digital input. Lenses: 25° included, 15° and 45° optional. 	
Typical applications:	
<ul style="list-style-type: none"> Entry- or mid-level industrial R&D. 	
Imaging and optical data	
IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	25° × 18.8°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	1.36 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	60 Hz
Focus	Automatic or manual (built in motor)
Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
Detector pitch	25 μm
Detector time constant	Typical 12 ms
Measurement	
Object temperature range	<ul style="list-style-type: none"> -20 to +120°C (-4 to +248°F) 0 to +350°C (+32 to +662°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading
Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity

P/N: 48001-1001

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Website

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Measurement analysis	
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary and GenICam protocol
Ethernet, image streaming	16-bit 320 × 240 pixels @ 60 Hz <ul style="list-style-type: none"> • Signal linear • Temperature linear • Radiometric GigE Vision and GenICam compatible
Ethernet, protocols	TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Digital input/output	
Digital input, purpose	Image tag (start, stop, general), Image flow control, (stream on/off), Input ext. device (programmatically read)
Digital input	2 opto-isolated, 0–1.5 V = low, 3–25 V = high
Digital output, purpose	Output to ext. device (programmatically set)
Digital output	2 opto-isolated, ON = supply (max. 100 mA), OFF = open
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	6–24 VDC, max. 200 mA
Digital I/O, connector type	6-pole jackable screw terminal

Power system	
External power operation	12/24 VDC, 24 W absolute max.
External power, connector type	2-pole jackable screw terminal
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> • EN 61000-6-2:2001 (Immunity) • EN 61000-6-3:2001 (Emission) • FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 40 (IEC 60529)



FLIR A325sc

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Environmental data	
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	0.7 kg (1.54 lb.)
Camera size (L x W x H)	170 x 70 x 70 mm (6.7 x 2.8 x 2.8 in.)
Tripod mounting	UNC ¼"-20 (on three sides)
Base mounting	2 x M4 thread mounting holes (on three sides)
Housing material	Aluminum

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">Infrared camera with lensEthernet cableFLIR ResearchIR Max 4 (licence only)Hard transport caseMains cablePower cable, pig-tailedPower supplyPrinted documentation
Packaging, weight	5.0 kg (11.0 lb.)
Packaging, size	495 x 370 x 192 mm (19.5 x 14.6 x 7.6 in.)
EAN-13	7332558004203
UPC-12	845188004231
Country of origin	Sweden

Supplies & accessories:

- 1196961; IR lens, f = 30 mm, 15° incl. case
- 1196960; IR lens, f = 10 mm, 45° incl. case
- T197215; Close-up 4x (100 µm) incl. case
- T197214; Close-up 2x (50 µm) incl. case
- T197407; IR lens, 76 mm (6°) with case and mounting support for A3xx, A3xxsc
- T197411; IR lens, 4 mm (90°) with case and mounting support for A3xx, A3xxsc
- T197415; Close-up 1x (25 µm) incl. case and mounting support for A3xx, A3xxsc
- T129252; Special temperature range -20 to +700 deg C
- T129253; Special temperature range -20 to +500 deg C
- T129254; High temperature measurement option -20 to +2000 deg C
- T130151; Special temperature range -20 to +2000 deg C
- T130152; Special temperature range +200 to +1200 deg C
- 1910400; Power cord EU
- 1910402; Power cord UK
- 1910401; Power cord US
- T911803; Power supply, 24 VDC, 2 A, 50 W
- T910922; Power supply, incl. multi plugs, for A3xx, A3xxsc, A6xx and A6xxsc
- T951004ACC; Ethernet cable CAT6, 2 m/6.6 ft.
- T911307ACC; Ethernet cable, CAT6, 2 m/6.6 ft, 1 screw connector
- 1910586ACC; Power cable, pigtailed
- T197871ACC; Hard transport case for A3xx/A6xx series
- T197870ACC; Cardboard box for A3xx/A6xx series
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

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FLIR A3xx ex series

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Introduction

The FLIR A310 ex is an ATEX-proof solution, with a thermal imaging camera mounted in an enclosure—making it possible to monitor critical and other valuable assets in explosive atmospheres. Process monitoring, quality control, and fire detection in potentially explosive locations are typical applications for the FLIR A310 ex.

- Thermographic monitoring and early fire detection in an explosion-hazard area.
- Enclosures for infrared cameras in Ex zones 1, 2, 21, 22.
- ATEX certified.
- Protection class IP67.
- Plug-and-play installation with the enclosure delivered ready for use.
- Available with additional options.

The certification covers the entire system, which includes the enclosure as well as all components inside of it, such as the infrared camera, heater, and integrated controller. This means that no additional certification is required for operation.

The integrated controller is equipped with two fiber optic and two Ethernet ports. This enables a flexible network integration in star ring topologies.

In addition, the integrated controller features several digital I/O channels and sensors for temperature, humidity, and pressure. Among other functions, the I/O channels enable the user to switch on/off the camera and the heater via remote control. Access is through an integrated web interface or Modbus TCP/IP.

Explosion-proof housing

General data	
Ambient temperature range for operation	-40°C to +60°C (-40°F to +140°F)
Protection class	IP67
Weight	6.7 kg (without camera and lens)
Empty volume	5.06 l
External dimensions (without sun shield)	D = 170 mm, L = 408 mm
Housing material	Nickel-plated aluminium
Surface	Powder coated
Protection window	Germanium, double-sided AR Coated, externally with additional hard-carbon layer
Maximum power of the additional heater	16 W
Operating voltage	24 V DC
Maximum electric connection power	60 W
Power cable	Helukabel 37264
Length of power cable	4 m (13 ft.)
Power cable configuration	Pigtail
Integrated controller	4-port switch with 2 × fiber-optic LC 100Base-FX or 2 × RJ45(10/100) up-links, ring-topology support for reduced cabling effort, 2 × internal temperature sensors, air humidity and pressure sensor, digital output module controllable via Modbus TCP/IP or web interface to enable turning the heater on/off
Ethernet medium	Multi-mode breakout fiber AT-V(ZN)Y(ZN)Y 4G50/125 OM2
Length of Ethernet cable	4 m (13 ft.)

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Website

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Customer support

<http://support.flir.com>

General data	
Ethernet configuration	Pigtail with FC connector

Explosion protection-specific data	
For use in EX zone	1, 2, 21, 22
Ignition protection category	Flame-proof enclosure "d"
Maximum surface temperature (according to temperature class T6)	Maximum 85°C
ATEX certification (version -AXC)	<ul style="list-style-type: none"> II 2G Ex db IIC T6 / T5 II 2D Ex tb IIIC T85° / T100
Verification certificate	ZELM 12 ATEX 0485 X

Camera system

Imaging and optical data	
IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	25° × 18.8°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	1.36 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	30 Hz
Focus	Automatic or manual (built in motor)
Zoom	1–8× continuous, digital, interpolating zooming on images

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
Detector pitch	25 μm
Detector time constant	Typical 12 ms

Measurement	
Object temperature range	<ul style="list-style-type: none"> –20 to +120°C (–4 to +248°F) 0 to +350°C (+32 to +662°F)
Accuracy	±4°C (±7.2°F) or ±2% of reading

Measurement analysis	
Spotmeter	10 (with no image streaming)
Area	10 boxes with max./min./average/position (with no image streaming)
Isotherm	1 with above/below/interval
Measurement option	Measurement Mask Filter Schedule response: File sending (ftp), email (SMTP)
Difference temperature	Delta temperature between measurement functions or reference temperature



FLIR A310 ex 25°

P/N: 71001-1103

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Measurement analysis	
Reference temperature	Manually set or captured from any measurement function
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global and individual object parameters

Alarm	
Alarm functions	6 automatic alarms on any selected measurement function, Digital In, Camera temperature, timer
Alarm output	Digital Out, log, store image, file sending (ftp), email (SMTP), notification

Set-up	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature (°C/°F)

Storage of images	
Storage media	Built-in memory for image storage
File formats	Standard JPEG, 16-bit measurement data included

Ethernet	
Ethernet	Control, result and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, configuration	Pigtail with FC-connector (fiber)
Ethernet, communication	TCP/IP socket-based FLIR proprietary
Ethernet, video streaming	MPEG-4, ISO/IEC 14496-1 MPEG-4 ASP@L5
Ethernet, image streaming	16-bit 320 × 240 pixels @ 7-8 Hz <ul style="list-style-type: none">• Radiometric
Ethernet, protocols	Ethernet/IP, Modbus TCP, TCP, UDP, SNMP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens, in explosion-proof housing• Printed documentation• Utility CD-ROM
Packaging, weight	
Packaging, size	495 × 370 × 192 mm (19.5 × 14.6 × 7.6 in.)
EAN-13	7332558008355
UPC-12	845188008703



FLIR A310 ex 25°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Shipping information	
Country of origin	Sweden

Supplies & accessories:

- T129252; Special temperature range -20 to +700 deg C
- T129253; Special temperature range -20 to +500 deg C
- T129254; High temperature measurement option -20 to +2000 deg C
- T130151; Special temperature range -20 to +2000 deg C
- T130090; I/O module MIO-A310-1
- T130091; I/O module MIO-A310-7
- T911288ACC; Pole mount adapter for wall mount kit
- T130169; Thermovision CM, max. 4 cameras
- T130170; Thermovision CM, max. 9 cameras
- T911263ACC; Wall mount kit

P/N: 71001-1104

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- Thermographic monitoring and early fire detection in an explosion-hazard area.
- Enclosures for infrared cameras in Ex zones 1, 2, 21, 22.
- ATEX certified.
- Protection class IP67.
- Plug-and-play installation with the enclosure delivered ready for use.
- Available with additional options.

The certification covers the entire system, which includes the enclosure as well as all components inside of it, such as the infrared camera, heater, and integrated controller. This means that no additional certification is required for operation.

The integrated controller is equipped with two fiber optic and two Ethernet ports. This enables a flexible network integration in star ring topologies.

In addition, the integrated controller features several digital I/O channels and sensors for temperature, humidity, and pressure. Among other functions, the I/O channels enable the user to switch on/off the camera and the heater via remote control. Access is through an integrated web interface or Modbus TCP/IP.

Explosion-proof housing

General data	
Ambient temperature range for operation	-40°C to +60°C (-40°F to +140°F)
Protection class	IP67
Weight	6.7 kg (without camera and lens)
Empty volume	5.06 l
External dimensions (without sun shield)	D = 170 mm, L = 408 mm
Housing material	Nickel-plated aluminium
Surface	Powder coated
Protection window	Germanium, double-sided AR Coated, externally with additional hard-carbon layer
Maximum power of the additional heater	16 W
Operating voltage	24 V DC
Maximum electric connection power	60 W
Power cable	Helukabel 37264
Length of power cable	4 m (13 ft.)
Power cable configuration	Pigtail
Integrated controller	4-port switch with 2 × fiber-optic LC 100Base-FX or 2 × RJ45(10/100) up-links, ring-topology support for reduced cabling effort, 2 × internal temperature sensors, air humidity and pressure sensor, digital output module controllable via Modbus TCP/IP or web interface to enable turning the heater on/off
Ethernet medium	Multi-mode breakout fiber AT-V(ZN)Y(ZN)Y 4G50/125 OM2
Length of Ethernet cable	4 m (13 ft.)



FLIR A310 ex 45°

P/N: 71001-1104

Revision

46386

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

General data	
Ethernet configuration	Pigtail with FC connector

Explosion protection-specific data	
For use in EX zone	1, 2, 21, 22.
Ignition protection category	Flame-proof enclosure "d"
Maximum surface temperature (according to temperature class T6)	Maximum 85°C
ATEX certification (version -AXC)	<ul style="list-style-type: none">• II 2G Ex db IIC T6 / T5• II 2D Ex tb IIIC T85° / T100
Verification certificate	ZELM 12 ATEX 0485 X

Camera system

Imaging and optical data	
IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	45° × 33.8
Minimum focus distance	0.20 m (0.66 ft.)
Focal length	9.66 mm (0.38 in.)
Spatial resolution (IFOV)	2.59 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	30 Hz
Focus	Automatic or manual (built in motor)
Zoom	1–8× continuous, digital, interpolating zooming on images

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
Detector pitch	25 μm
Detector time constant	Typical 12 ms

Measurement	
Object temperature range	<ul style="list-style-type: none">• -20 to +120°C (-4 to +248°F)• 0 to +350°C (+32 to +662°F)
Accuracy	±4°C (±7.2°F) or ±2% of reading

Measurement analysis	
Spotmeter	10 (with no image streaming)
Area	10 boxes with max./min./average/position (with no image streaming)
Isotherm	1 with above/below/interval
Measurement option	Measurement Mask Filter Schedule response: File sending (ftp), email (SMTP)
Difference temperature	Delta temperature between measurement functions or reference temperature



FLIR A310 ex 45°

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Website

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Customer support

<http://support.flir.com>

Measurement analysis	
Reference temperature	Manually set or captured from any measurement function
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global and individual object parameters

Alarm	
Alarm functions	6 automatic alarms on any selected measurement function, Digital In, Camera temperature, timer
Alarm output	Digital Out, log, store image, file sending (ftp), email (SMTP), notification

Set-up	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature (°C/°F)

Storage of images	
Storage media	Built-in memory for image storage
File formats	Standard JPEG, 16-bit measurement data included

Ethernet	
Ethernet	Control, result and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, configuration	Pigtail with FC connector
Ethernet, communication	TCP/IP socket-based FLIR proprietary
Ethernet, video streaming	MPEG-4, ISO/IEC 14496-1 MPEG-4 ASP@L5
Ethernet, image streaming	16-bit 320 × 240 pixels @ 7-8 Hz <ul style="list-style-type: none">• Radiometric
Ethernet, protocols	Ethernet/IP, Modbus TCP, TCP, UDP, SNMP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens, in explosion-proof housing• Printed documentation• Utility CD-ROM
Packaging, weight	
Packaging, size	495 × 370 × 192 mm (19.5 × 14.6 × 7.6 in.)
EAN-13	7332558008362
UPC-12	845188008710



FLIR A310 ex 45°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Shipping information

Country of origin

Sweden

Supplies & accessories:

- T129252; Special temperature range -20 to +700 deg C
- T129253; Special temperature range -20 to +500 deg C
- T129254; High temperature measurement option -20 to +2000 deg C
- T130151; Special temperature range -20 to +2000 deg C
- T130090; I/O module MIO-A310-1
- T130091; I/O module MIO-A310-7
- T911288ACC; Pole mount adapter for wall mount kit
- T130169; Thermovision CM, max. 4 cameras
- T130170; Thermovision CM, max. 9 cameras
- T911263ACC; Wall mount kit

FLIR A3xx f series

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P/N: 61201-1003

Revision

35207

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

The main purpose of the housing on the FLIR A300f is to increase the environmental specification of the standard FLIR A300 to IP66 without affecting any of the features available in the camera itself.

The built-in FLIR A300 camera provides an affordable and accurate temperature measurement solution for anyone who needs to solve problems that do not call for the highest speed or reaction and who uses a PC. Due to its composite video output, it is also an excellent choice for thermal image automation applications, where you can utilize its unique properties such as looking through steam.

Key features:

- Encapsulation to IP66.
- MPEG-4 streaming.
- PoE (Power over Ethernet).
- Built-in web server.
- General purpose I/O.
- 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.).
- Synchronization through SNTP.
- Composite video output.
- Multi-camera utility software: FLIR IP Config and FLIR IR Monitor included.
- Open and well-described TCP/IP protocol for control and set-up.
- 16-bit 320 × 240 pixel images at 3 Hz, radiometric.

Typical applications:

- Fire prevention, critical vessel monitoring, and power utility asset management
- Volume-oriented industrial control (multi-camera installation is possible)

Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	25° × 18.8°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	1.36 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	30 Hz
Focus	Automatic or manual (built in motor)
Zoom	1–8× continuous, digital, interpolating zooming on images

Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
Detector pitch	25 μm
Detector time constant	Typical 12 ms



FLIR A300f 25°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Measurement	
Object temperature range	<ul style="list-style-type: none">-20 to +120°C (-4 to +248°F)0 to +350°C (+32 to +662°F)
Accuracy	±4°C (±7.2°F) or ±4% of reading

Set-up	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature (°C/°F)

Storage of images	
Storage media	Built-in memory for image storage
File formats	Standard JPEG, 16-bit measurement data included

Ethernet	
Ethernet	Control and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary
Ethernet, video streaming	MPEG-4, ISO/IEC 14496-1 MPEG-4 ASP@L5
Ethernet, image streaming	16-bit 320 × 240 pixels @ 3 Hz - Radiometric
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0
Ethernet, protocols	TCP, UDP, SNMP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Digital input/output	
Digital input, purpose	Image tag (start/stop/general), Input ext. device (programmatically read)
Digital input	2 opto-isolated, 10–30 VDC
Digital output, purpose	Output to ext. device (programmatically set)
Digital output	2 opto-isolated, 10–30 VDC, max. 100 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	12/24 VDC, max. 200 mA
Digital I/O, connector type	6-pole jackable screw terminal

Composite video	
Video out	Composite video output, PAL and NTSC compatible
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC)
Video, connector type	Standard BNC connector

Power system	
External power operation	The camera operates on 12/24 VDC, 9 W max. (allowed range: 10-30 VDC) and heaters on 24 VDC, 25 W max. In total: 34 W.
External power, connector type	2-pole jackable screw terminal



FLIR A300f 25°

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Website

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Customer support

<http://support.flir.com>

Power system	
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	–25°C to +50°C (–13°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none">EN 61000-6-2 (Immunity)EN 61000-6-3 (Emission)FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 66 (IEC 60529)
Bump	5 g, 11 ms (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	5 kg (11.0 lb.)
Size (L × W × H)	460 × 140 × 159 mm (18.1 × 5.5 × 6.3 in.)
Base mounting	
Housing material	Aluminum

System features	
External power operation (heater)	24 VDC, 25 W max.
External power, connector type (heater)	2-pole jackable screw terminal
Voltage (heater)	Allowed range 21-30 VDC
Automatic heaters	Clears window from ice

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">Infrared camera with lens and environmental housingFLIR Sensors Manager download cardFLIR Tools & Utilities CD-ROMLens capPrinted documentationSmall accessories kit
Packaging, weight	
Packaging, size	534 × 207 × 230 mm (21.0 × 8.1 × 9.1 in.)
EAN-13	7332558008843
UPC-12	845188009380
Country of origin	Sweden

Supplies & accessories:

- T129252; Special temperature range -20 to +700 deg C
- T129253; Special temperature range -20 to +500 deg C
- T129254; High temperature measurement option -20 to +2000 deg C
- T130151; Special temperature range -20 to +2000 deg C
- T130152; Special temperature range +200 to +1200 deg C
- T911803; Power supply, 24 VDC, 2 A, 50 W
- T951004ACC; Ethernet cable CAT6, 2 m/6.6 ft.
- 1910586ACC; Power cable, pigtailed
- 908929; Video cable, 3.0 m/9.8 ft.
- T129785ACC; Dust control ring
- 324-0004-00; HARD CASE - WITH FOAM, F - SERIES
- 500-0463-00; PEDESTAL MOUNT ASSY - F-SERIES
- 4119507; POLE ADAPTER - F-SERIES



FLIR A300f 25°

P/N: 61201-1003

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 500-0462-00; WALL MOUNT ASSY - F-SERIES
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description
<p>The main purpose of the housing on the FLIR A300f is to increase the environmental specification of the standard FLIR A300 to IP66 without affecting any of the features available in the camera itself.</p> <p>The built-in FLIR A300 camera provides an affordable and accurate temperature measurement solution for anyone who needs to solve problems that do not call for the highest speed or reaction and who uses a PC. Due to its composite video output, it is also an excellent choice for thermal image automation applications, where you can utilize its unique properties such as looking through steam.</p>
<p>Key features:</p> <ul style="list-style-type: none"> • Encapsulation to IP66. • MPEG-4 streaming. • PoE (Power over Ethernet). • Built-in web server. • General purpose I/O. • 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.). • Synchronization through SNTP. • Composite video output. • Multi-camera utility software: FLIR IP Config and FLIR IR Monitor included. • Open and well-described TCP/IP protocol for control and set-up. • 16-bit 320 × 240 pixel images at 3 Hz, radiometric.
<p>Typical applications:</p> <ul style="list-style-type: none"> • Fire prevention, critical vessel monitoring, and power utility asset management • Volume-oriented industrial control (multi-camera installation is possible)

Imaging and optical data	
IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	45° × 33.8°
Minimum focus distance	0.20 m (0.66 ft.)
Focal length	9.66 mm (0.38 in.)
Spatial resolution (IFOV)	2.45 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	30 Hz
Focus	Automatic or manual (built in motor)
Zoom	1–8× continuous, digital, interpolating zooming on images

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
Detector pitch	25 μm
Detector time constant	Typical 12 ms



FLIR A300f 45°

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Website

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Customer support

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Measurement	
Object temperature range	<ul style="list-style-type: none">-20 to +120°C (-4 to +248°F)0 to +350°C (+32 to +662°F)
Accuracy	±4°C (±7.2°F) or ±4% of reading

Set-up	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature (°C/°F)

Storage of images	
Storage media	Built-in memory for image storage
File formats	Standard JPEG, 16-bit measurement data included

Ethernet	
Ethernet	Control and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary
Ethernet, video streaming	MPEG-4, ISO/IEC 14496-1 MPEG-4 ASP@L5
Ethernet, image streaming	16-bit 320 × 240 pixels @ 3 Hz - Radiometric
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0
Ethernet, protocols	TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Digital input/output	
Digital input, purpose	Image tag (start/stop/general), Input ext. device (programmatically read)
Digital input	2 opto-isolated, 10–30 VDC
Digital output, purpose	Output to ext. device (programmatically set)
Digital output	2 opto-isolated, 10–30 VDC, max. 100 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	12/24 VDC, max. 200 mA
Digital I/O, connector type	6-pole jackable screw terminal

Composite video	
Video out	Composite video output, PAL and NTSC compatible
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC)
Video, connector type	Standard BNC connector

Power system	
External power operation	The camera operates on 12/24 VDC, 9 W max. (allowed range: 10-30 VDC) and heaters on 24 VDC, 25 W max. In total: 34 W.
External power, connector type	2-pole jackable screw terminal



FLIR A300f 45°

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Website

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Customer support

<http://support.flir.com>

Power system	
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	–25°C to +50°C (–13°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none">EN 61000-6-2 (Immunity)EN 61000-6-3 (Emission)FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 66 (IEC 60529)
Bump	5 g, 11 ms (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	4.8 kg (10.6 lb.)
Size (L x W x H)	460 x 140 x 159 mm (18.1 x 5.5 x 6.3 in.)
Base mounting	
Housing material	Aluminum

System features	
External power operation (heater)	24 VDC, 25 W max.
External power, connector type (heater)	2-pole jackable screw terminal
Voltage (heater)	Allowed range 21-30 VDC
Automatic heaters	Clears window from ice

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">Infrared camera with lens and environmental housingFLIR Sensors Manager download cardFLIR Tools & Utilities CD-ROMLens capPrinted documentationSmall accessories kit
Packaging, weight	
Packaging, size	534 x 207 x 230 mm (21.0 x 8.1 x 9.1 in.)
EAN-13	7332558005514
UPC-12	845188005719
Country of origin	Sweden

Supplies & accessories:

- T129252; Special temperature range -20 to +700 deg C
- T129253; Special temperature range -20 to +500 deg C
- T129254; High temperature measurement option -20 to +2000 deg C
- T130151; Special temperature range -20 to +2000 deg C
- T130152; Special temperature range +200 to +1200 deg C
- T911803; Power supply, 24 VDC, 2 A, 50 W
- T951004ACC; Ethernet cable CAT6, 2 m/6.6 ft.
- 1910586ACC; Power cable, pigtailed
- 908929; Video cable, 3.0 m/9.8 ft.
- T129785ACC; Dust control ring
- 324-0004-00; HARD CASE - WITH FOAM, F - SERIES
- 500-0463-00; PEDESTAL MOUNT ASSY - F-SERIES
- 4119507; POLE ADAPTER - F-SERIES



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- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

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Website

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Customer support

<http://support.flir.com>



General description

The main purpose of the housing on the FLIR A310f is to increase the environmental specification of the standard FLIR A310 to IP66 without affecting any of the features available in the camera itself.

The built-in FLIR A310 camera offers an affordable and accurate temperature measurement solution for anyone who needs to solve problems that need built in "smartness" such as analysis, alarm functionality, and autonomous communication using standard protocols. The FLIR A310 camera also has all the necessary features and functions to build distributed single- or multi-camera solutions utilizing standard Ethernet hardware and software protocols.

The FLIR A310 camera also has built in support to connect to industrial control equipment such as PLCs, and allows for sharing of analysis and alarm results and simple control using the Ethernet/IP and Modbus TCP field bus protocols.

Key features:

- Encapsulation to IP66.
- Support for the Ethernet/IP field bus protocol (analyze, alarm, and simple camera control).
- Support for the Modbus TCP field bus protocol (analyze, alarm, and simple camera control).
- Built-in extensive analysis functionality.
- Extensive alarm functionality, as a function of analysis and more.
- On schedule: file sending (FTP) or e-mail (SMTP) of analysis results or images.
- On alarms: file sending (FTP) or e-mail (SMTP) of analysis results or images.
- MPEG-4 streaming.
- PoE (Power over Ethernet).
- Built-in web server.
- General purpose I/O.
- 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.).
- Synchronization through SNTP.
- Composite video output.
- Multi-camera utility software: FLIR IP Config and FLIR IR Monitor included.
- Open and well-described TCP/IP protocol for control and set-up.
- 16-bit 320 × 240 pixel images at 7–8 Hz, radiometric.

Typical applications:

- Safety with temperature alarms (multi-camera applications), fire prevention, critical vessel monitoring, and power utility asset management.
- Volume-oriented industrial control (multi-camera installation is possible).

Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	15° × 11.25°
Minimum focus distance	1.2 m (3.93 ft.)
Focal length	30.38 mm (1.2 in.)
Spatial resolution (IFOV)	0.82 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	30 Hz
Focus	Automatic or manual (built in motor)
Zoom	1–8× continuous, digital, interpolating zooming on images



FLIR A310f 15°

P/N: 61201-1102

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
Detector pitch	25 μm
Detector time constant	Typical 12 ms

Measurement	
Object temperature range	<ul style="list-style-type: none">-20 to +120°C (-4 to +248°F)0 to +350°C (+32 to +662°F)
Accuracy	$\pm 4^\circ\text{C}$ ($\pm 7.2^\circ\text{F}$) or $\pm 4\%$ of reading

Measurement analysis	
Spotmeter	10 (with no image streaming)
Area	10 boxes with max./min./average/position (7 if FLIR Sensors Manager or other image streaming software is used)
Isotherm	1 with above/below/interval
Measurement option	Measurement Mask Filter Schedule response: File sending (ftp), email (SMTP)
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global and individual object parameters

Alarm	
Alarm functions	6 automatic alarms on any selected measurement function, Digital In, Camera temperature, timer
Alarm output	Digital Out, log, store image, file sending (ftp), email (SMTP), notification

Set-up	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature ($^\circ\text{C}/^\circ\text{F}$)

Storage of images	
Storage media	Built-in memory for image storage
File formats	Standard JPEG, 16-bit measurement data included

Ethernet	
Ethernet	Control, result and image
Ethernet, type	100 Mbps

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Website

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Customer support

<http://support.flir.com>

Ethernet	
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary
Ethernet, video streaming	MPEG-4, ISO/IEC 14496-1 MPEG-4 ASP@L5
Ethernet, image streaming	16-bit 320 x 240 pixels @ 7-8 Hz - Radiometric
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0
Ethernet, protocols	Ethernet/IP, Modbus TCP, TCP, UDP, SNMP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Digital input/output	
Digital input, purpose	Image tag (start/stop/general), Input ext. device (programmatically read)
Digital input	2 opto-isolated, 10–30 VDC
Digital output, purpose	As function of ALARM, Output to ext. device (programmatically set)
Digital output	2 opto-isolated, 10–30 VDC, max. 100 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	12/24 VDC, max. 200 mA
Digital I/O, connector type	6-pole jackable screw terminal

Composite video	
Video out	Composite video output, PAL and NTSC compatible
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC)
Video, connector type	Standard BNC connector

Power system	
External power operation	The camera operates on 12/24 VDC, 9 W max. (allowed range: 10-30 VDC) and heaters on 24 VDC, 25 W max. In total: 34 W.
External power, connector type	2-pole jackable screw terminal
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	–25°C to +50°C (–13°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> EN 61000-6-2 (Immunity) EN 61000-6-3 (Emission) FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 66 (IEC 60529)
Bump	5 g, 11 ms (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)



FLIR A310f 15°

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Physical data	
Weight	4.8 kg (10.6 lb.)
Size (L x W x H)	460 x 140 x 159 mm (18.1 x 5.5 x 6.3 in.)
Base mounting	
Housing material	Aluminum

System features	
External power operation (heater)	24 VDC, 25 W max.
External power, connector type (heater)	2-pole jackable screw terminal
Voltage (heater)	Allowed range 21-30 VDC
Automatic heaters	Clears window from ice

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">Infrared camera with lens and environmental housingFLIR Sensors Manager download cardFLIR Tools & Utilities CD-ROMLens capPrinted documentationSmall accessories kit
Packaging, weight	
Packaging, size	534 x 207 x 230 mm (21.0 x 8.1 x 9.1 in.)
EAN-13	7332558004845
UPC-12	845188004866
Country of origin	Sweden

Supplies & accessories:

- T129252; Special temperature range -20 to +700 deg C
- T129253; Special temperature range -20 to +500 deg C
- T129254; High temperature measurement option -20 to +2000 deg C
- T130151; Special temperature range -20 to +2000 deg C
- T130152; Special temperature range +200 to +1200 deg C
- T911803; Power supply, 24 VDC, 2 A, 50 W
- T951004ACC; Ethernet cable CAT6, 2 m/6.6 ft.
- 1910586ACC; Power cable, pigtailed
- 908929; Video cable, 3.0 m/9.8 ft.
- T129785ACC; Dust control ring
- T130090; I/O module MIO-A310-1
- T130091; I/O module MIO-A310-7
- T130169; Thermovision CM, max. 4 cameras
- T130170; Thermovision CM, max. 9 cameras
- 324-0004-00; HARD CASE - WITH FOAM, F - SERIES
- 500-0463-00; PEDESTAL MOUNT ASSY - F-SERIES
- 4119507; POLE ADAPTER - F-SERIES
- 500-0462-00; WALL MOUNT ASSY - F-SERIES
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3
- 4130235; FLIR Sensors Manager, pro

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Website

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Customer support

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General description

The main purpose of the housing on the FLIR A310f is to increase the environmental specification of the standard FLIR A310 to IP66 without affecting any of the features available in the camera itself.

The built-in FLIR A310 camera offers an affordable and accurate temperature measurement solution for anyone who needs to solve problems that need built-in "smartness" such as analysis, alarm functionality, and autonomous communication using standard protocols. The FLIR A310 camera also has all the necessary features and functions to build distributed single- or multi-camera solutions utilizing standard Ethernet hardware and software protocols.

The FLIR A310 camera also has built-in support to connect to industrial control equipment such as PLCs, and allows for sharing of analysis and alarm results and simple control using the Ethernet/IP and Modbus TCP field bus protocols.

Key features:

- Encapsulation to IP66.
- Support for the Ethernet/IP field bus protocol (analyze, alarm, and simple camera control).
- Support for the Modbus TCP field bus protocol (analyze, alarm, and simple camera control).
- Built-in extensive analysis functionality.
- Extensive alarm functionality, as a function of analysis and more.
- On schedule: file sending (FTP) or e-mail (SMTP) of analysis results or images.
- On alarms: file sending (FTP) or e-mail (SMTP) of analysis results or images.
- MPEG-4 streaming.
- PoE (Power over Ethernet).
- Built-in web server.
- General purpose I/O.
- 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.).
- Synchronization through SNTP.
- Composite video output.
- Multi-camera utility software: FLIR IP Config and FLIR IR Monitor included.
- Open and well-described TCP/IP protocol for control and set-up.
- 16-bit 320 × 240 pixel images at 7–8 Hz, radiometric.

Typical applications:

- Safety with temperature alarms (multi-camera applications), fire prevention, critical vessel monitoring, and power utility asset management.
- Volume-oriented industrial control (multi-camera installation is possible).

Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	25° × 18.8°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	1.36 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	30 Hz
Focus	Automatic or manual (built in motor)
Zoom	1–8× continuous, digital, interpolating zooming on images



FLIR A310f 25°

P/N: 61201-1103

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
Detector pitch	25 μm
Detector time constant	Typical 12 ms

Measurement	
Object temperature range	<ul style="list-style-type: none">-20 to +120°C (-4 to +248°F)0 to +350°C (+32 to +662°F)
Accuracy	$\pm 4^\circ\text{C}$ ($\pm 7.2^\circ\text{F}$) or $\pm 4\%$ of reading

Measurement analysis	
Spotmeter	10 (with no image streaming)
Area	10 boxes with max./min./average/position (7 if FLIR Sensors Manager or other image streaming software is used)
Isotherm	1 with above/below/interval
Measurement option	Measurement Mask Filter Schedule response: File sending (ftp), email (SMTP)
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global and individual object parameters

Alarm	
Alarm functions	6 automatic alarms on any selected measurement function, Digital In, Camera temperature, timer
Alarm output	Digital Out, log, store image, file sending (ftp), email (SMTP), notification

Set-up	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature ($^\circ\text{C}/^\circ\text{F}$)

Storage of images	
Storage media	Built-in memory for image storage
File formats	Standard JPEG, 16-bit measurement data included

Ethernet	
Ethernet	Control, result and image
Ethernet, type	100 Mbps



FLIR A310f 25°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Ethernet	
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary
Ethernet, video streaming	MPEG-4, ISO/IEC 14496-1 MPEG-4 ASP@L5
Ethernet, image streaming	16-bit 320 x 240 pixels @ 7-8 Hz - Radiometric
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0
Ethernet, protocols	Ethernet/IP, Modbus TCP, TCP, UDP, SNMP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Digital input/output	
Digital input, purpose	Image tag (start/stop/general), Input ext. device (programmatically read)
Digital input	2 opto-isolated, 10–30 VDC
Digital output, purpose	As function of ALARM, Output to ext. device (programmatically set)
Digital output	2 opto-isolated, 10–30 VDC, max. 100 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	12/24 VDC, max. 200 mA
Digital I/O, connector type	6-pole jackable screw terminal

Composite video	
Video out	Composite video output, PAL and NTSC compatible
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC)
Video, connector type	Standard BNC connector

Power system	
External power operation	The camera operates on 12/24 VDC, 9 W max. (allowed range: 10-30 VDC) and heaters on 24 VDC, 25 W max. In total: 34 W.
External power, connector type	2-pole jackable screw terminal
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	–25°C to +50°C (–13°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> EN 61000-6-2 (Immunity) EN 61000-6-3 (Emission) FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 66 (IEC 60529)
Bump	5 g, 11 ms (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)



FLIR A310f 25°

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Physical data	
Weight	5 kg (11.0 lb.)
Size (L x W x H)	460 x 140 x 159 mm (18.1 x 5.5 x 6.3 in.)
Base mounting	
Housing material	Aluminum

System features	
External power operation (heater)	24 VDC, 25 W max.
External power, connector type (heater)	2-pole jackable screw terminal
Voltage (heater)	Allowed range 21-30 VDC
Automatic heaters	Clears window from ice

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">Infrared camera with lens and environmental housingFLIR Sensors Manager download cardFLIR Tools & Utilities CD-ROMLens capPrinted documentationSmall accessories kit
Packaging, weight	
Packaging, size	534 x 207 x 230 mm (21.0 x 8.1 x 9.1 in.)
EAN-13	7332558004821
UPC-12	845188004842
Country of origin	Sweden

Supplies & accessories:

- T129252; Special temperature range -20 to +700 deg C
- T129253; Special temperature range -20 to +500 deg C
- T129254; High temperature measurement option -20 to +2000 deg C
- T130151; Special temperature range -20 to +2000 deg C
- T130152; Special temperature range +200 to +1200 deg C
- T911803; Power supply, 24 VDC, 2 A, 50 W
- T951004ACC; Ethernet cable CAT6, 2 m/6.6 ft.
- 1910586ACC; Power cable, pigtailed
- 908929; Video cable, 3.0 m/9.8 ft.
- T129785ACC; Dust control ring
- T130090; I/O module MIO-A310-1
- T130091; I/O module MIO-A310-7
- T130169; Thermovision CM, max. 4 cameras
- T130170; Thermovision CM, max. 9 cameras
- 324-0004-00; HARD CASE - WITH FOAM, F - SERIES
- 500-0463-00; PEDESTAL MOUNT ASSY - F-SERIES
- 4119507; POLE ADAPTER - F-SERIES
- 500-0462-00; WALL MOUNT ASSY - F-SERIES
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3
- 4130235; FLIR Sensors Manager, pro

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Website

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Customer support

<http://support.flir.com>



General description

The main purpose of the housing on the FLIR A310f is to increase the environmental specification of the standard FLIR A310 to IP66 without affecting any of the features available in the camera itself.

The built-in FLIR A310 camera offers an affordable and accurate temperature measurement solution for anyone who needs to solve problems that need built in "smartness" such as analysis, alarm functionality, and autonomous communication using standard protocols. The FLIR A310 camera also has all the necessary features and functions to build distributed single- or multi-camera solutions utilizing standard Ethernet hardware and software protocols.

The FLIR A310 camera also has built in support to connect to industrial control equipment such as PLCs, and allows for sharing of analysis and alarm results and simple control using the Ethernet/IP and Modbus TCP field bus protocols.

Key features:

- Encapsulation to IP66.
- Support for the Ethernet/IP field bus protocol (analyze, alarm, and simple camera control).
- Support for the Modbus TCP field bus protocol (analyze, alarm, and simple camera control).
- Built-in extensive analysis functionality.
- Extensive alarm functionality, as a function of analysis and more.
- On schedule: file sending (FTP) or e-mail (SMTP) of analysis results or images.
- On alarms: file sending (FTP) or e-mail (SMTP) of analysis results or images.
- MPEG-4 streaming.
- PoE (Power over Ethernet).
- Built-in web server.
- General purpose I/O.
- 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.).
- Synchronization through SNTP.
- Composite video output.
- Multi-camera utility software: FLIR IP Config and FLIR IR Monitor included.
- Open and well-described TCP/IP protocol for control and set-up.
- 16-bit 320 × 240 pixel images at 7–8 Hz, radiometric.

Typical applications:

- Safety with temperature alarms (multi-camera applications), fire prevention, critical vessel monitoring, and power utility asset management.
- Volume-oriented industrial control (multi-camera installation is possible).

Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	45° × 33.8°
Minimum focus distance	0.20 m (0.66 ft.)
Focal length	9.66 mm (0.38 in.)
Spatial resolution (IFOV)	2.45 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	30 Hz
Focus	Automatic or manual (built in motor)
Zoom	1–8× continuous, digital, interpolating zooming on images

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
Detector pitch	25 μm
Detector time constant	Typical 12 ms

Measurement	
Object temperature range	<ul style="list-style-type: none"> -20 to +120°C (-4 to +248°F) 0 to +350°C (+32 to +662°F)
Accuracy	$\pm 4^\circ\text{C}$ ($\pm 7.2^\circ\text{F}$) or $\pm 4\%$ of reading

Measurement analysis	
Spotmeter	10 (with no image streaming)
Area	10 boxes with max./min./average/position (7 if FLIR Sensors Manager or other image streaming software is used)
Isotherm	1 with above/below/interval
Measurement option	Measurement Mask Filter Schedule response: File sending (ftp), email (SMTP)
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global and individual object parameters

Alarm	
Alarm functions	6 automatic alarms on any selected measurement function, Digital In, Camera temperature, timer
Alarm output	Digital Out, log, store image, file sending (ftp), email (SMTP), notification

Set-up	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature ($^\circ\text{C}/^\circ\text{F}$)

Storage of images	
Storage media	Built-in memory for image storage
File formats	Standard JPEG, 16-bit measurement data included

Ethernet	
Ethernet	Control, result and image
Ethernet, type	100 Mbps

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Website

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Customer support

<http://support.flir.com>

Ethernet	
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary
Ethernet, video streaming	MPEG-4, ISO/IEC 14496-1 MPEG-4 ASP@L5
Ethernet, image streaming	16-bit 320 x 240 pixels @ 7-8 Hz - Radiometric
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0
Ethernet, protocols	Ethernet/IP, Modbus TCP, TCP, UDP, SNMP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Digital input/output	
Digital input, purpose	Image tag (start/stop/general), Input ext. device (programmatically read)
Digital input	2 opto-isolated, 10–30 VDC
Digital output, purpose	As function of ALARM, Output to ext. device (programmatically set)
Digital output	2 opto-isolated, 10–30 VDC, max. 100 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	12/24 VDC, max. 200 mA
Digital I/O, connector type	6-pole jackable screw terminal

Composite video	
Video out	Composite video output, PAL and NTSC compatible
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC)
Video, connector type	Standard BNC connector

Power system	
External power operation	The camera operates on 12/24 VDC, 9 W max. (allowed range: 10-30 VDC) and heaters on 24 VDC, 25 W max. In total: 34 W.
External power, connector type	2-pole jackable screw terminal
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	–25°C to +50°C (–13°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> EN 61000-6-2 (Immunity) EN 61000-6-3 (Emission) FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 66 (IEC 60529)
Bump	5 g, 11 ms (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)



FLIR A310f 45°

P/N: 61201-1104

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Physical data	
Weight	4.8 kg (10.6 lb.)
Size (L x W x H)	460 x 140 x 159 mm (18.1 x 5.5 x 6.3 in.)
Base mounting	
Housing material	Aluminum

System features	
External power operation (heater)	24 VDC, 25 W max.
External power, connector type (heater)	2-pole jackable screw terminal
Voltage (heater)	Allowed range 21-30 VDC
Automatic heaters	Clears window from ice

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">Infrared camera with lens and environmental housingFLIR Sensors Manager download cardFLIR Tools & Utilities CD-ROMLens capPrinted documentationSmall accessories kit
Packaging, weight	
Packaging, size	534 x 207 x 230 mm (21.0 x 8.1 x 9.1 in.)
EAN-13	7332558005125
UPC-12	845188005320
Country of origin	Sweden

Supplies & accessories:

- T129252; Special temperature range -20 to +700 deg C
- T129253; Special temperature range -20 to +500 deg C
- T129254; High temperature measurement option -20 to +2000 deg C
- T130151; Special temperature range -20 to +2000 deg C
- T130152; Special temperature range +200 to +1200 deg C
- T911803; Power supply, 24 VDC, 2 A, 50 W
- T951004ACC; Ethernet cable CAT6, 2 m/6.6 ft.
- 1910586ACC; Power cable, pigtailed
- 908929; Video cable, 3.0 m/9.8 ft.
- T129785ACC; Dust control ring
- T130090; I/O module MIO-A310-1
- T130091; I/O module MIO-A310-7
- T130169; Thermovision CM, max. 4 cameras
- T130170; Thermovision CM, max. 9 cameras
- 324-0004-00; HARD CASE - WITH FOAM, F - SERIES
- 500-0463-00; PEDESTAL MOUNT ASSY - F-SERIES
- 4119507; POLE ADAPTER - F-SERIES
- 500-0462-00; WALL MOUNT ASSY - F-SERIES
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3
- 4130235; FLIR Sensors Manager, pro

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General description

The main purpose of the housing on the FLIR A310f is to increase the environmental specification of the standard FLIR A310 to IP66 without affecting any of the features available in the camera itself.

The built-in FLIR A310 camera offers an affordable and accurate temperature measurement solution for anyone who needs to solve problems that need built-in "smartness" such as analysis, alarm functionality, and autonomous communication using standard protocols. The FLIR A310 camera also has all the necessary features and functions to build distributed single- or multi-camera solutions utilizing standard Ethernet hardware and software protocols.

The FLIR A310 camera also has built-in support to connect to industrial control equipment such as PLCs, and allows for sharing of analysis and alarm results and simple control using the Ethernet/IP and Modbus TCP field bus protocols.

Key features:

- Encapsulation to IP66.
- Support for the Ethernet/IP field bus protocol (analyze, alarm, and simple camera control).
- Support for the Modbus TCP field bus protocol (analyze, alarm, and simple camera control).
- Built-in extensive analysis functionality.
- Extensive alarm functionality, as a function of analysis and more.
- On schedule: file sending (FTP) or e-mail (SMTP) of analysis results or images.
- On alarms: file sending (FTP) or e-mail (SMTP) of analysis results or images.
- MPEG-4 streaming.
- PoE (Power over Ethernet).
- Built-in web server.
- General purpose I/O.
- 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.).
- Synchronization through SNTP.
- Composite video output.
- Multi-camera utility software: FLIR IP Config and FLIR IR Monitor included.
- Open and well-described TCP/IP protocol for control and set-up.
- 16-bit 320 × 240 pixel images at 7–8 Hz, radiometric.

Typical applications:

- Safety with temperature alarms (multi-camera applications), fire prevention, critical vessel monitoring, and power utility asset management.
- Volume-oriented industrial control (multi-camera installation is possible).

Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	6° × 4.5°
Minimum focus distance	4 m (13.11 ft.)
Focal length	76 mm (3.0 in.)
Spatial resolution (IFOV)	0.33 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	30 Hz
Focus	Automatic or manual (built in motor)
Zoom	1–8× continuous, digital, interpolating zooming on images



FLIR A310f 6°

P/N: 61201-1101

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
Detector pitch	25 μm
Detector time constant	Typical 12 ms

Measurement	
Object temperature range	<ul style="list-style-type: none">-20 to +120°C (-4 to +248°F)0 to +350°C (+32 to +662°F)
Accuracy	$\pm 4^\circ\text{C}$ ($\pm 7.2^\circ\text{F}$) or $\pm 4\%$ of reading

Measurement analysis	
Spotmeter	10 (with no image streaming)
Area	10 boxes with max./min./average/position (7 if FLIR Sensors Manager or other image streaming software is used)
Isotherm	1 with above/below/interval
Measurement option	Measurement Mask Filter Schedule response: File sending (ftp), email (SMTP)
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global and individual object parameters

Alarm	
Alarm functions	6 automatic alarms on any selected measurement function, Digital In, Camera temperature, timer
Alarm output	Digital Out, log, store image, file sending (ftp), email (SMTP), notification

Set-up	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature ($^\circ\text{C}/^\circ\text{F}$)

Storage of images	
Storage media	Built-in memory for image storage
File formats	Standard JPEG, 16-bit measurement data included

Ethernet	
Ethernet	Control, result and image
Ethernet, type	100 Mbps



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Website

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Customer support

<http://support.flir.com>

Ethernet	
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary
Ethernet, video streaming	MPEG-4, ISO/IEC 14496-1 MPEG-4 ASP@L5
Ethernet, image streaming	16-bit 320 x 240 pixels @ 7-8 Hz - Radiometric
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0
Ethernet, protocols	Ethernet/IP, Modbus TCP, TCP, UDP, SNMP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Digital input/output	
Digital input, purpose	Image tag (start/stop/general), Input ext. device (programmatically read)
Digital input	2 opto-isolated, 10–30 VDC
Digital output, purpose	As function of ALARM, Output to ext. device (programmatically set)
Digital output	2 opto-isolated, 10–30 VDC, max. 100 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	12/24 VDC, max. 200 mA
Digital I/O, connector type	6-pole jackable screw terminal

Composite video	
Video out	Composite video output, PAL and NTSC compatible
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC)
Video, connector type	Standard BNC connector

Power system	
External power operation	The camera operates on 12/24 VDC, 9 W max. (allowed range: 10-30 VDC) and heaters on 24 VDC, 25 W max. In total: 34 W.
External power, connector type	2-pole jackable screw terminal
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	–25°C to +50°C (–13°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> EN 61000-6-2 (Immunity) EN 61000-6-3 (Emission) FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 66 (IEC 60529)
Bump	5 g, 11 ms (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)



FLIR A310f 6°

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Physical data	
Weight	5 kg (11.0 lb.)
Size (L x W x H)	460 x 140 x 159 mm (18.1 x 5.5 x 6.3 in.)
Base mounting	
Housing material	Aluminum

System features	
External power operation (heater)	24 VDC, 25 W max.
External power, connector type (heater)	2-pole jackable screw terminal
Voltage (heater)	Allowed range 21-30 VDC
Automatic heaters	Clears window from ice

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">Infrared camera with lens and environmental housingFLIR Sensors Manager download cardFLIR Tools & Utilities CD-ROMLens capPrinted documentationSmall accessories kit
Packaging, weight	
Packaging, size	534 x 207 x 230 mm (21.0 x 8.1 x 9.1 in.)
EAN-13	7332558005682
UPC-12	845188005894
Country of origin	Sweden

Supplies & accessories:

- T129252; Special temperature range -20 to +700 deg C
- T129253; Special temperature range -20 to +500 deg C
- T129254; High temperature measurement option -20 to +2000 deg C
- T130151; Special temperature range -20 to +2000 deg C
- T130152; Special temperature range +200 to +1200 deg C
- T911803; Power supply, 24 VDC, 2 A, 50 W
- T951004ACC; Ethernet cable CAT6, 2 m/6.6 ft.
- 1910586ACC; Power cable, pigtailed
- 908929; Video cable, 3.0 m/9.8 ft.
- T129785ACC; Dust control ring
- T130090; I/O module MIO-A310-1
- T130091; I/O module MIO-A310-7
- T130169; Thermovision CM, max. 4 cameras
- T130170; Thermovision CM, max. 9 cameras
- 324-0004-00; HARD CASE - WITH FOAM, F - SERIES
- 500-0463-00; PEDESTAL MOUNT ASSY - F-SERIES
- 4119507; POLE ADAPTER - F-SERIES
- 500-0462-00; WALL MOUNT ASSY - F-SERIES
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3
- 4130235; FLIR Sensors Manager, pro

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Website

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Customer support

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General description

The main purpose of the housing on the FLIR A310f is to increase the environmental specification of the standard FLIR A310 to IP66 without affecting any of the features available in the camera itself.

The built-in FLIR A310 camera offers an affordable and accurate temperature measurement solution for anyone who needs to solve problems that need built in "smartness" such as analysis, alarm functionality, and autonomous communication using standard protocols. The FLIR A310 camera also has all the necessary features and functions to build distributed single- or multi-camera solutions utilizing standard Ethernet hardware and software protocols.

The FLIR A310 camera also has built in support to connect to industrial control equipment such as PLCs, and allows for sharing of analysis and alarm results and simple control using the Ethernet/IP and Modbus TCP field bus protocols.

Key features:

- Encapsulation to IP66.
- Support for the Ethernet/IP field bus protocol (analyze, alarm, and simple camera control).
- Support for the Modbus TCP field bus protocol (analyze, alarm, and simple camera control).
- Built-in extensive analysis functionality.
- Extensive alarm functionality, as a function of analysis and more.
- On schedule: file sending (FTP) or e-mail (SMTP) of analysis results or images.
- On alarms: file sending (FTP) or e-mail (SMTP) of analysis results or images.
- MPEG-4 streaming.
- PoE (Power over Ethernet).
- Built-in web server.
- General purpose I/O.
- 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.).
- Synchronization through SNTP.
- Composite video output.
- Multi-camera utility software: FLIR IP Config and FLIR IR Monitor included.
- Open and well-described TCP/IP protocol for control and set-up.
- 16-bit 320 × 240 pixel images at 7–8 Hz, radiometric.

Typical applications:

- Safety with temperature alarms (multi-camera applications), fire prevention, critical vessel monitoring, and power utility asset management.
- Volume-oriented industrial control (multi-camera installation is possible).

Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	90° × 73°
Minimum focus distance	20 mm (0.79 in.)
Focal length	4 mm (0.157 in.)
Spatial resolution (IFOV)	6.3 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	30 Hz
Focus	Automatic or manual (built in motor)
Zoom	1–8× continuous, digital, interpolating zooming on images



FLIR A310f 90°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
Detector pitch	25 μm
Detector time constant	Typical 12 ms

Measurement	
Object temperature range	<ul style="list-style-type: none">-20 to +120°C (-4 to +248°F)0 to +350°C (+32 to +662°F)
Accuracy	$\pm 4^\circ\text{C}$ ($\pm 7.2^\circ\text{F}$) or $\pm 4\%$ of reading

Measurement analysis	
Spotmeter	10 (with no image streaming)
Area	10 boxes with max./min./average/position (7 if FLIR Sensors Manager or other image streaming software is used)
Isotherm	1 with above/below/interval
Measurement option	Measurement Mask Filter Schedule response: File sending (ftp), email (SMTP)
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global and individual object parameters

Alarm	
Alarm functions	6 automatic alarms on any selected measurement function, Digital In, Camera temperature, timer
Alarm output	Digital Out, log, store image, file sending (ftp), email (SMTP), notification

Set-up	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature ($^\circ\text{C}/^\circ\text{F}$)

Storage of images	
Storage media	Built-in memory for image storage
File formats	Standard JPEG, 16-bit measurement data included

Ethernet	
Ethernet	Control, result and image
Ethernet, type	100 Mbps



FLIR A310f 90°

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Ethernet	
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary
Ethernet, video streaming	MPEG-4, ISO/IEC 14496-1 MPEG-4 ASP@L5
Ethernet, image streaming	16-bit 320 x 240 pixels @ 7-8 Hz - Radiometric
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0
Ethernet, protocols	Ethernet/IP, Modbus TCP, TCP, UDP, SNMP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Digital input/output	
Digital input, purpose	Image tag (start/stop/general), Input ext. device (programmatically read)
Digital input	2 opto-isolated, 10–30 VDC
Digital output, purpose	As function of ALARM, Output to ext. device (programmatically set)
Digital output	2 opto-isolated, 10–30 VDC, max. 100 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	12/24 VDC, max. 200 mA
Digital I/O, connector type	6-pole jackable screw terminal

Composite video	
Video out	Composite video output, PAL and NTSC compatible
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC)
Video, connector type	Standard BNC connector

Power system	
External power operation	The camera operates on 12/24 VDC, 9 W max. (allowed range: 10-30 VDC) and heaters on 24 VDC, 25 W max. In total: 34 W.
External power, connector type	2-pole jackable screw terminal
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	–25°C to +50°C (–13°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> EN 61000-6-2 (Immunity) EN 61000-6-3 (Emission) FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 66 (IEC 60529)
Bump	5 g, 11 ms (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)



FLIR A310f 90°

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Physical data	
Weight	5 kg (11.0 lb.)
Size (L x W x H)	460 x 140 x 159 mm (18.1 x 5.5 x 6.3 in.)
Base mounting	
Housing material	Aluminum

System features	
External power operation (heater)	24 VDC, 25 W max.
External power, connector type (heater)	2-pole jackable screw terminal
Voltage (heater)	Allowed range 21-30 VDC
Automatic heaters	Clears window from ice

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">Infrared camera with lens and environmental housingFLIR Sensors Manager download cardFLIR Tools & Utilities CD-ROMLens capPrinted documentationSmall accessories kit
Packaging, weight	
Packaging, size	534 x 207 x 230 mm (21.0 x 8.1 x 9.1 in.)
EAN-13	7332558004258
UPC-12	845188004279
Country of origin	Sweden

Supplies & accessories:

- T129252; Special temperature range -20 to +700 deg C
- T129253; Special temperature range -20 to +500 deg C
- T129254; High temperature measurement option -20 to +2000 deg C
- T130151; Special temperature range -20 to +2000 deg C
- T130152; Special temperature range +200 to +1200 deg C
- T911803; Power supply, 24 VDC, 2 A, 50 W
- T951004ACC; Ethernet cable CAT6, 2 m/6.6 ft.
- 1910586ACC; Power cable, pigtailed
- 908929; Video cable, 3.0 m/9.8 ft.
- T129785ACC; Dust control ring
- T130090; I/O module MIO-A310-1
- T130091; I/O module MIO-A310-7
- T130169; Thermovision CM, max. 4 cameras
- T130170; Thermovision CM, max. 9 cameras
- 324-0004-00; HARD CASE - WITH FOAM, F - SERIES
- 500-0463-00; PEDESTAL MOUNT ASSY - F-SERIES
- 4119507; POLE ADAPTER - F-SERIES
- 500-0462-00; WALL MOUNT ASSY - F-SERIES
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3
- 4130235; FLIR Sensors Manager, pro

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
<p>The main purpose of the housing on the FLIR A315f is to increase the environmental specification of the standard FLIR A315 to IP66 without affecting any of the features available in the camera itself.</p> <p>The built-in FLIR A315 camera has features and functions that make it the natural choice for anyone who uses PC software to solve problems and for whom 320 × 240 pixel resolution is sufficient. Among its main features are GigE Vision and GenICam compliance, which makes it plug-and-play when used with software packages such as IMAQ Vision and Halcon.</p>	
Key features:	
<ul style="list-style-type: none"> • Encapsulation to IP66. • Affordable. • GigE compliant. • GenICam compliant. • Trigg/synchronization/GPIO. • 16-bit 320 × 240 pixel images at 60 Hz, signal, temperature linear, and radiometric. • Compliant with any software that supports GenICam, including National Instruments IMAQ Vision and Stammers Common Vision Blox. 	
Typical applications:	
<ul style="list-style-type: none"> • High-end infrared machine vision that needs temperature measurement. • Slag detection. • Food processing. • Electronics testing. • Power resistor testing. • Automotive. 	

Imaging and optical data	
IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	25° × 18.8°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	1.36 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	60 Hz
Focus	Automatic or manual (built in motor)

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
Detector pitch	25 μm
Detector time constant	Typical 12 ms



FLIR A315f 25°

P/N: 61201-1203

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Measurement	
Object temperature range	<ul style="list-style-type: none"> -20 to +120°C (-4 to +248°F) 0 to +350°C (+32 to +662°F)
Accuracy	±4°C (±7.2°F) or ±4% of reading

Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary and GenICam protocol
Ethernet, image streaming	16-bit 320 × 240 pixels @ 60 Hz - Signal linear - Temperature linear - Radiometric GigE Vision and GenICam compatible
Ethernet, protocols	TCP, UDP, SNMP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Digital input/output	
Digital input, purpose	Image tag (start, stop, general), Image flow control, (stream on/off), Input ext. device (programmatically read)
Digital input	2 opto-isolated, 10–30 VDC
Digital output, purpose	Output to ext. device (programmatically set)
Digital output	2 opto-isolated, 10–30 VDC, max. 100 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	12/24 VDC, max. 200 mA
Digital I/O, connector type	6-pole jackable screw terminal

Power system	
External power operation	The camera operates on 12/24 VDC, 9 W max. (allowed range: 10-30 VDC) and heaters on 24 VDC, 25 W max. In total: 34 W.
External power, connector type	2-pole jackable screw terminal
Voltage	Allowed range 10–30 VDC



FLIR A315f 25°

P/N: 61201-1203

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Environmental data	
Operating temperature range	-25°C to +50°C (-13°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none">EN 61000-6-2 (Immunity)EN 61000-6-3 (Emission)FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 66 (IEC 60529)
Bump	5 g, 11 ms (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	5 kg (11.0 lb.)
Size (L x W x H)	460 x 140 x 159 mm (18.1 x 5.5 x 6.3 in.)
Base mounting	
Housing material	Aluminum

System features	
External power operation (heater)	24 VDC, 25 W max.
External power, connector type (heater)	2-pole jackable screw terminal
Voltage (heater)	Allowed range 21-30 VDC
Automatic heaters	Clears window from ice

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">Infrared camera with lens and environmental housingFLIR Sensors Manager download cardFLIR Tools & Utilities CD-ROMLens capPrinted documentationSmall accessories kit
Packaging, weight	
Packaging, size	534 x 207 x 230 mm (21.0 x 8.1 x 9.1 in.)
EAN-13	7332558006153
UPC-12	845188006464
Country of origin	Sweden

Supplies & accessories:

- T129252; Special temperature range -20 to +700 deg C
- T129253; Special temperature range -20 to +500 deg C
- T129254; High temperature measurement option -20 to +2000 deg C
- T130151; Special temperature range -20 to +2000 deg C
- T130152; Special temperature range +200 to +1200 deg C
- T911803; Power supply, 24 VDC, 2 A, 50 W
- T951004ACC; Ethernet cable CAT6, 2 m/6.6 ft.
- 1910586ACC; Power cable, pigtailed
- T129785ACC; Dust control ring
- 324-0004-00; HARD CASE - WITH FOAM, F - SERIES
- 500-0463-00; PEDESTAL MOUNT ASSY - F-SERIES
- 4119507; POLE ADAPTER - F-SERIES
- 500-0462-00; WALL MOUNT ASSY - F-SERIES
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T199233; FLIR Atlas SDK for .NET



FLIR A315f 25°

P/N: 61201-1203

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Website

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Customer support

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- T199234; FLIR Atlas SDK for MATLAB
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

P/N: 61201-1204

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General description	
<p>The main purpose of the housing on the FLIR A315f is to increase the environmental specification of the standard FLIR A315 to IP66 without affecting any of the features available in the camera itself.</p> <p>The built-in FLIR A315 camera has features and functions that make it the natural choice for anyone who uses PC software to solve problems and for whom 320 × 240 pixel resolution is sufficient. Among its main features are GigE Vision and GenICam compliance, which makes it plug-and-play when used with software packages such as IMAQ Vision and Halcon.</p>	
Key features:	
<ul style="list-style-type: none"> • Encapsulation to IP66. • Affordable. • GigE compliant. • GenICam compliant. • Trigg/synchronization/GPIO. • 16-bit 320 × 240 pixel images at 60 Hz, signal, temperature linear, and radiometric. • Compliant with any software that supports GenICam, including National Instruments IMAQ Vision and Stammers Common Vision Blox. 	
Typical applications:	
<ul style="list-style-type: none"> • High-end infrared machine vision that needs temperature measurement. • Slag detection. • Food processing. • Electronics testing. • Power resistor testing. • Automotive. 	

Imaging and optical data	
IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	45° × 33.8°
Minimum focus distance	0.20 m (0.66 ft.)
Focal length	9.66 mm (0.38 in.)
Spatial resolution (IFOV)	2.45 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	60 Hz
Focus	Automatic or manual (built in motor)

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
Detector pitch	25 μm
Detector time constant	Typical 12 ms



FLIR A315f 45°

P/N: 61201-1204

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Website

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Measurement	
Object temperature range	<ul style="list-style-type: none">-20 to +120°C (-4 to +248°F)0 to +350°C (+32 to +662°F)
Accuracy	±4°C (±7.2°F) or ±4% of reading

Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary and GenICam protocol
Ethernet, image streaming	16-bit 320 × 240 pixels @ 60 Hz - Signal linear - Temperature linear - Radiometric GigE Vision and GenICam compatible
Ethernet, protocols	TCP, UDP, SNMP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Digital input/output	
Digital input, purpose	Image tag (start, stop, general), Image flow control, (stream on/off), Input ext. device (programmatically read)
Digital input	2 opto-isolated, 10–30 VDC
Digital output, purpose	Output to ext. device (programmatically set)
Digital output	2 opto-isolated, 10–30 VDC, max. 100 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	12/24 VDC, max. 200 mA
Digital I/O, connector type	6-pole jackable screw terminal

Power system	
External power operation	The camera operates on 12/24 VDC, 9 W max. (allowed range: 10-30 VDC) and heaters on 24 VDC, 25 W max. In total: 34 W.
External power, connector type	2-pole jackable screw terminal
Voltage	Allowed range 10–30 VDC



FLIR A315f 45°

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Website

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Customer support

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Environmental data	
Operating temperature range	-25°C to +50°C (-13°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none">EN 61000-6-2 (Immunity)EN 61000-6-3 (Emission)FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 66 (IEC 60529)
Bump	5 g, 11 ms (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	4.8 kg (10.6 lb.)
Size (L x W x H)	460 x 140 x 159 mm (18.1 x 5.5 x 6.3 in.)
Base mounting	
Housing material	Aluminum

System features	
External power operation (heater)	24 VDC, 25 W max.
External power, connector type (heater)	2-pole jackable screw terminal
Voltage (heater)	Allowed range 21-30 VDC
Automatic heaters	Clears window from ice

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">Infrared camera with lens and environmental housingFLIR Sensors Manager download cardFLIR Tools & Utilities CD-ROMLens capPrinted documentationSmall accessories kit
Packaging, weight	
Packaging, size	534 x 207 x 230 mm (21.0 x 8.1 x 9.1 in.)
EAN-13	7332558005699
UPC-12	845188005900
Country of origin	Sweden

Supplies & accessories:

- T129252; Special temperature range -20 to +700 deg C
- T129253; Special temperature range -20 to +500 deg C
- T129254; High temperature measurement option -20 to +2000 deg C
- T130151; Special temperature range -20 to +2000 deg C
- T130152; Special temperature range +200 to +1200 deg C
- T911803; Power supply, 24 VDC, 2 A, 50 W
- T951004ACC; Ethernet cable CAT6, 2 m/6.6 ft.
- 1910586ACC; Power cable, pigtailed
- T129785ACC; Dust control ring
- 324-0004-00; HARD CASE - WITH FOAM, F - SERIES
- 500-0463-00; PEDESTAL MOUNT ASSY - F-SERIES
- 4119507; POLE ADAPTER - F-SERIES
- 500-0462-00; WALL MOUNT ASSY - F-SERIES
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T199233; FLIR Atlas SDK for .NET



FLIR A315f 45°

P/N: 61201-1204

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- T199234; FLIR Atlas SDK for MATLAB
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

P/N: 61201-1205

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General description	
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Key features:	
<ul style="list-style-type: none"> • Encapsulation to IP66. • Affordable. • GigE compliant. • GenICam compliant. • Trigg/synchronization/GPIO. • 16-bit 320 × 240 pixel images at 60 Hz, signal, temperature linear, and radiometric. • Compliant with any software that supports GenICam, including National Instruments IMAQ Vision and Stammers Common Vision Blox. 	
Typical applications:	

Imaging and optical data	
IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	90° × 73°
Minimum focus distance	20 mm (0.79 in.)
Focal length	4 mm (0.157 in.)
Spatial resolution (IFOV)	6.3 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	60 Hz
Focus	Automatic or manual (built in motor)

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
Detector pitch	25 μm
Detector time constant	Typical 12 ms

Measurement	
Object temperature range	<ul style="list-style-type: none"> • -20 to +120°C (-4 to +248°F) • 0 to +350°C (+32 to +662°F)
Accuracy	±4°C (±7.2°F) or ±4% of reading



FLIR A315f 90°

P/N: 61201-1205

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Website

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Customer support

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Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary and GenICam protocol
Ethernet, image streaming	16-bit 320 × 240 pixels @ 60 Hz - Signal linear - Temperature linear - Radiometric GigE Vision and GenICam compatible
Ethernet, protocols	TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Digital input/output	
Digital input, purpose	Image tag (start, stop, general), Image flow control, (stream on/off), Input ext. device (programmatically read)
Digital input	2 opto-isolated, 10–30 VDC
Digital output, purpose	Output to ext. device (programmatically set)
Digital output	2 opto-isolated, 10–30 VDC, max. 100 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	12/24 VDC, max. 200 mA
Digital I/O, connector type	6-pole jackable screw terminal

Power system	
External power operation	The camera operates on 12/24 VDC, 9 W max. (allowed range: 10-30 VDC) and heaters on 24 VDC, 25 W max. In total: 34 W.
External power, connector type	2-pole jackable screw terminal
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	–25°C to +50°C (–13°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)



FLIR A315f 90°

P/N: 61201-1205

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Website

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Customer support

<http://support.flir.com>

Environmental data	
EMC	<ul style="list-style-type: none">EN 61000-6-2 (Immunity)EN 61000-6-3 (Emission)FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 66 (IEC 60529)
Bump	5 g, 11 ms (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	5 kg (11.0 lb.)
Size (L x W x H)	460 x 140 x 159 mm (18.1 x 5.5 x 6.3 in.)
Base mounting	
Housing material	Aluminum

System features	
External power operation (heater)	24 VDC, 25 W max.
External power, connector type (heater)	2-pole jackable screw terminal
Voltage (heater)	Allowed range 21-30 VDC
Automatic heaters	Clears window from ice

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">Infrared camera with lens and environmental housingFLIR Sensors Manager download cardFLIR Tools & Utilities CD-ROMLens capPrinted documentationSmall accessories kit
Packaging, weight	
Packaging, size	534 x 207 x 230 mm (21.0 x 8.1 x 9.1 in.)
EAN-13	7332558005705
UPC-12	845188005917
Country of origin	Sweden

Supplies & accessories:

- T129252; Special temperature range -20 to +700 deg C
- T129253; Special temperature range -20 to +500 deg C
- T129254; High temperature measurement option -20 to +2000 deg C
- T130151; Special temperature range -20 to +2000 deg C
- T130152; Special temperature range +200 to +1200 deg C
- T911803; Power supply, 24 VDC, 2 A, 50 W
- T951004ACC; Ethernet cable CAT6, 2 m/6.6 ft.
- 1910586ACC; Power cable, pigtailed
- T129785ACC; Dust control ring
- 324-0004-00; HARD CASE - WITH FOAM, F - SERIES
- 500-0463-00; PEDESTAL MOUNT ASSY - F-SERIES
- 4119507; POLE ADAPTER - F-SERIES
- 500-0462-00; WALL MOUNT ASSY - F-SERIES
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- T198583; FLIR Tools+ (download card incl. license key)
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- APP-10002; FLIR Tools Mobile (Android Application)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

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FLIR A3xx pt series

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P/N: 60902-1102

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<http://support.flir.com>



General description	
<p>The FLIR A310pt Pan & Tilt is an affordable solution for anyone who needs to solve problems that require built in “smartness” such as analysis and alarm functionality. The FLIR A310pt Pan & Tilt has all the necessary features and functions to build distributed single- or multi-camera solutions to cover large areas to monitor such as in coal pile monitoring and sub-station monitoring using standard Ethernet hardware and software protocols.</p> <p>The FLIR A310pt precision pan/tilt mechanism gives operators accurate pointing control while providing fully programmable scan patterns, radar slew-to-cue, and slew-to-alarm functionality.</p> <p>Multi-sensor configurations also include a day/night 36x zoom color CCD camera on the same pan/tilt package.</p>	
<p>Key features:</p> <ul style="list-style-type: none"> • Built-in extensive analysis functionality. • Extensive alarm functionality, as a function of analysis and more. • H.264, MPEG-4, and MJPEG streaming. • Built-in web server. • 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.). • Composite video output. • Precise pan/tilt mechanism. • Daylight camera. • IP66 rated. • IP control: FLIR PT series cameras can be integrated into any existing TCP/IP network and controlled using a personal computer. • Serial control interface, use Pelco D or Bosch commands over RS-232, RS-422, or RS-485 to remotely control the FLIR A310 pt. • Multi-camera software: FLIR Sensors Manager allows users to manage and control a FLIR PT series camera in a TCP/IP network. 	

Imaging and optical data	
IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	15° × 11.25°
Minimum focus distance	1.2 m (3.93 ft.)
Focal length	30.38 mm (1.2 in.)
Spatial resolution (IFOV)	0.82 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	9 Hz
Focus	Automatic or manual (built in motor)
Zoom	1–8x continuous, digital, interpolating zooming on images

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
Detector pitch	25 μm



FLIR A310pt 15° (9 Hz) NTSC

P/N: 60902-1102

Revision

46394

Last modified

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Detector data	
Detector time constant	Typical 12 ms

Measurement	
Object temperature range	<ul style="list-style-type: none"> -20 to +120°C (-4 to +248°F) 0 to +350°C (+32 to +662°F)
Accuracy	±4°C (±7.2°F) or ±4% of reading

Measurement analysis	
Spotmeter	10
Area	10 boxes with max./min./average/position (7 if FLIR Sensors Manager is used)
Isotherm	1 with above/below/interval
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global and individual object parameters

Alarm	
Alarm functions	6 automatic alarms on any selected measurement function, camera temperature

Set-up	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature (°C/°F)

Imaging and optical data (visual camera)	
Field of view (FOV)	57.8° (H) to 1.7° (H)
Focal length	3.4 mm (wide) to 122.4 mm (tele)
F-number	1.6 to 4.5
Focus	Automatic or manual (built in motor)
Optical Zoom	36x continuous
Electronic Zoom	12x continuous, digital, interpolating

Detector data (visual camera)	
Focal plane array (FPA)	1/4" Exview HAD CCD
Effective pixels	380.000

Technical specification (pan & tilt)	
Azimuth Range	Az velocity 360° continuous, 0.1 to 60°/sec max
Elevation Range	El velocity ± 45°, 0.1 to 30°/sec. max
Programmable presets	128
Automatic heaters	Clears window from ice. Switched on at +4°C (39°F). Switched off at +15°C (59°F).



FLIR A310pt 15° (9 Hz) NTSC

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Website

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Customer support

<http://support.flir.com>

Ethernet	
Ethernet	Control, result and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	
Ethernet, video streaming	Two independent channels for each camera - MPEG-4, H.264, or M-JPEG
Ethernet, protocols	TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Composite video	
Video out	Composite video output, NTSC compatible
Video, standard	CVBS (SMPTE 170M NTSC)

Power system	
Power	24 VAC (21-30 VAC; 24 VAC: 215 VA max. with heater) or 24 VDC (21-30 VDC; 24 VDC: 195 W max. with heater).

Environmental data	
Operating temperature range	-25°C to +50°C (-13°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none">• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 66 (IEC 60529)
Bump	5 g, 11 ms (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	17.9 kg (39.5 lb.)
Size (L x W x H)	460 x 467 x 326 mm (18.1 x 18.4 x 12.8 in.)
Base mounting	
Housing material	Aluminum

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Pan & tilt with infrared camera including lens and visual camera• FLIR Sensors Manager download card• Lens cap• Printed documentation• Small accessories kit
Packaging, weight	
Packaging, size	671 x 564 x 464 mm (26.4 x 22.2 x 18.3 in.)
EAN-13	7332558008867



FLIR A310pt 15° (9 Hz) NTSC

P/N: 60902-1102

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Shipping information

UPC-12

845188009403

Country of origin

Sweden

Supplies & accessories:

- T130152; Special temperature range +200 to +1200 deg C
- 4119468; ADAPTER PLATE - PT-SERIES
- 223-0017-00; JOYSTICK ASSY, NEXUS CONSOLE
- 500-0461-00; PEDESTAL MOUNT ASSY - PT-SERIES
- 500-0509-00; POLE ADAPTER - PT-SERIES
- 4124857; POWER SUPPLY ASSY, 24VAC - PT-series
- 500-0460-00; WALL MOUNT ASSY - PT-SERIES
- 324-0010-00; Hard case - PT-SERIES
- 4130235; FLIR Sensors Manager, pro

P/N: 60901-1102

Revision

46395

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

The FLIR A310pt Pan & Tilt is an affordable solution for anyone who needs to solve problems that require built in “smartness” such as analysis and alarm functionality. The FLIR A310pt Pan & Tilt has all the necessary features and functions to build distributed single- or multi-camera solutions to cover large areas to monitor such as in coal pile monitoring and sub-station monitoring using standard Ethernet hardware and software protocols.

The FLIR A310pt precision pan/tilt mechanism gives operators accurate pointing control while providing fully programmable scan patterns, radar slew-to-cue, and slew-to-alarm functionality.

Multi-sensor configurations also include a day/night 36x zoom color CCD camera on the same pan/tilt package.

Key features:

- Built-in extensive analysis functionality.
- Extensive alarm functionality, as a function of analysis and more.
- H.264, MPEG-4, and MJPEG streaming.
- Built-in web server.
- 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.).
- Composite video output.
- Precise pan/tilt mechanism.
- Daylight camera.
- IP66 rated.
- IP control: FLIR PT series cameras can be integrated into any existing TCP/IP network and controlled using a personal computer.
- Serial control interface, use Pelco D or Bosch commands over RS-232, RS-422, or RS-485 to remotely control the FLIR A310 pt.
- Multi-camera software: FLIR Sensors Manager allows users to manage and control a FLIR PT series camera in a TCP/IP network.

Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	15° × 11.25°
Minimum focus distance	1.2 m (3.93 ft.)
Focal length	30.38 mm (1.2 in.)
Spatial resolution (IFOV)	0.82 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	9 Hz
Focus	Automatic or manual (built in motor)
Zoom	1–8x continuous, digital, interpolating zooming on images

Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
Detector pitch	25 μm



FLIR A310pt 15° (9 Hz) PAL

P/N: 60901-1102

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Website

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Customer support

<http://support.flir.com>

Detector data	
Detector time constant	Typical 12 ms

Measurement	
Object temperature range	<ul style="list-style-type: none">-20 to +120°C (-4 to +248°F)0 to +350°C (+32 to +662°F)
Accuracy	±4°C (±7.2°F) or ±4% of reading

Measurement analysis	
Spotmeter	10
Area	10 boxes with max./min./average/position (7 if FLIR Sensors Manager is used)
Isotherm	1 with above/below/interval
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global and individual object parameters

Alarm	
Alarm functions	6 automatic alarms on any selected measurement function, camera temperature

Set-up	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature (°C/°F)

Imaging and optical data (visual camera)	
Field of view (FOV)	57.8° (H) to 1.7° (H)
Focal length	3.4 mm (wide) to 122.4 mm (tele)
F-number	1.6 to 4.5
Focus	Automatic or manual (built in motor)
Optical Zoom	36x continuous
Electronic Zoom	12x continuous, digital, interpolating

Detector data (visual camera)	
Focal plane array (FPA)	1/4" Exview HAD CCD
Effective pixels	380.000

Technical specification (pan & tilt)	
Azimuth Range	Az velocity 360° continuous, 0.1 to 60°/sec max
Elevation Range	El velocity ± 45°, 0.1 to 30°/sec. max
Programmable presets	128
Automatic heaters	Clears window from ice. Switched on at +4°C (39°F). Switched off at +15°C (59°F).



FLIR A310pt 15° (9 Hz) PAL

P/N: 60901-1102

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Ethernet	
Ethernet	Control, result and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	
Ethernet, video streaming	Two independent channels for each camera - MPEG-4, H.264, or M-JPEG
Ethernet, protocols	TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Composite video	
Video out	Composite video output, PAL compatible
Video, standard	CVBS (ITU-R-BT.470 PAL)

Power system	
Power	24 VAC (21-30 VAC; 24 VAC: 215 VA max. with heater) or 24 VDC (21-30 VDC; 24 VDC: 195 W max. with heater).

Environmental data	
Operating temperature range	-25°C to +50°C (-13°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none">• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 66 (IEC 60529)
Bump	5 g, 11 ms (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	17.9 kg (39.5 lb.)
Size (L x W x H)	460 x 467 x 326 mm (18.1 x 18.4 x 12.8 in.)
Base mounting	
Housing material	Aluminum

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Pan & tilt with infrared camera including lens and visual camera• FLIR Sensors Manager download card• Lens cap• Printed documentation• Small accessories kit
Packaging, weight	
Packaging, size	671 x 564 x 464 mm (26.4 x 22.2 x 18.3 in.)
EAN-13	7332558008874



FLIR A310pt 15° (9 Hz) PAL

P/N: 60901-1102

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>**Shipping information**

UPC-12

845188009410

Country of origin

Sweden

Supplies & accessories:

- T130152; Special temperature range +200 to +1200 deg C
- 4119468; ADAPTER PLATE - PT-SERIES
- 223-0017-00; JOYSTICK ASSY, NEXUS CONSOLE
- 500-0461-00; PEDESTAL MOUNT ASSY - PT-SERIES
- 500-0509-00; POLE ADAPTER - PT-SERIES
- 4124857; POWER SUPPLY ASSY, 24VAC - PT-series
- 500-0460-00; WALL MOUNT ASSY - PT-SERIES
- 324-0010-00; Hard case - PT-SERIES
- 4130235; FLIR Sensors Manager, pro

P/N: 61002-1102

Revision

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Website

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Customer support

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General description	
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<p>Key features:</p> <ul style="list-style-type: none"> • Built-in extensive analysis functionality. • Extensive alarm functionality, as a function of analysis and more. • H.264, MPEG-4, and MJPEG streaming. • Built-in web server. • 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.). • Composite video output. • Precise pan/tilt mechanism. • Daylight camera. • IP66 rated. • IP control: FLIR PT series cameras can be integrated into any existing TCP/IP network and controlled using a personal computer. • Serial control interface, use Pelco D or Bosch commands over RS-232, RS-422, or RS-485 to remotely control the FLIR A310 pt. • Multi-camera software: FLIR Sensors Manager allows users to manage and control a FLIR PT series camera in a TCP/IP network. 	

Imaging and optical data	
IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	15° × 11.25°
Minimum focus distance	1.2 m (3.93 ft.)
Focal length	30.38 mm (1.2 in.)
Spatial resolution (IFOV)	0.82 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	30 Hz
Focus	Automatic or manual (built in motor)
Zoom	1–8x continuous, digital, interpolating zooming on images

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
Detector pitch	25 μm



FLIR A310pt 15° NTSC

P/N: 61002-1102

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Website

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Customer support

<http://support.flir.com>

Detector data	
Detector time constant	Typical 12 ms

Measurement	
Object temperature range	<ul style="list-style-type: none"> -20 to +120°C (-4 to +248°F) 0 to +350°C (+32 to +662°F)
Accuracy	±4°C (±7.2°F) or ±4% of reading

Measurement analysis	
Spotmeter	10
Area	10 boxes with max./min./average/position (7 if FLIR Sensors Manager is used)
Isotherm	1 with above/below/interval
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global and individual object parameters

Alarm	
Alarm functions	6 automatic alarms on any selected measurement function, camera temperature

Set-up	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature (°C/°F)

Imaging and optical data (visual camera)	
Field of view (FOV)	57.8° (H) to 1.7° (H)
Focal length	3.4 mm (wide) to 122.4 mm (tele)
F-number	1.6 to 4.5
Focus	Automatic or manual (built in motor)
Optical Zoom	36x continuous
Electronic Zoom	12x continuous, digital, interpolating

Detector data (visual camera)	
Focal plane array (FPA)	1/4" Exview HAD CCD
Effective pixels	380.000

Technical specification (pan & tilt)	
Azimuth Range	Az velocity 360° continuous, 0.1 to 60°/sec max
Elevation Range	El velocity ± 45°, 0.1 to 30°/sec. max
Programmable presets	128
Automatic heaters	Clears window from ice. Switched on at +4°C (39°F). Switched off at +15°C (59°F).



FLIR A310pt 15° NTSC

P/N: 61002-1102

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Website

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Customer support

<http://support.flir.com>

Ethernet	
Ethernet	Control, result and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	
Ethernet, video streaming	Two independent channels for each camera - MPEG-4, H.264, or M-JPEG
Ethernet, protocols	TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Composite video	
Video out	Composite video output, NTSC compatible
Video, standard	CVBS (SMPTE 170M NTSC)

Power system	
Power	24 VAC (21-30 VAC; 24 VAC: 215 VA max. with heater) or 24 VDC (21-30 VDC; 24 VDC: 195 W max. with heater).

Environmental data	
Operating temperature range	-25°C to +50°C (-13°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none">• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 66 (IEC 60529)
Bump	5 g, 11 ms (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	17.9 kg (39.5 lb.)
Size (L x W x H)	460 x 467 x 326 mm (18.1 x 18.4 x 12.8 in.)
Base mounting	
Housing material	Aluminum

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Pan & tilt with infrared camera including lens and visual camera• FLIR Sensors Manager download card• Lens cap• Printed documentation• Small accessories kit
Packaging, weight	
Packaging, size	671 x 564 x 464 mm (26.4 x 22.2 x 18.3 in.)
EAN-13	7332558004784



FLIR A310pt 15° NTSC

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Shipping information

UPC-12	845188004729
Country of origin	Sweden

Supplies & accessories:

- T130152; Special temperature range +200 to +1200 deg C
- 4119468; ADAPTER PLATE - PT-SERIES
- 223-0017-00; JOYSTICK ASSY, NEXUS CONSOLE
- 500-0461-00; PEDESTAL MOUNT ASSY - PT-SERIES
- 500-0509-00; POLE ADAPTER - PT-SERIES
- 4124857; POWER SUPPLY ASSY, 24VAC - PT-series
- 500-0460-00; WALL MOUNT ASSY - PT-SERIES
- 324-0010-00; Hard case - PT-SERIES
- 4130235; FLIR Sensors Manager, pro

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

The FLIR A310pt Pan & Tilt is an affordable solution for anyone who needs to solve problems that require built in “smartness” such as analysis and alarm functionality. The FLIR A310pt Pan & Tilt has all the necessary features and functions to build distributed single- or multi-camera solutions to cover large areas to monitor such as in coal pile monitoring and sub-station monitoring using standard Ethernet hardware and software protocols.

The FLIR A310pt precision pan/tilt mechanism gives operators accurate pointing control while providing fully programmable scan patterns, radar slew-to-cue, and slew-to-alarm functionality.

Multi-sensor configurations also include a day/night 36x zoom color CCD camera on the same pan/tilt package.

Key features:

- Built-in extensive analysis functionality.
- Extensive alarm functionality, as a function of analysis and more.
- H.264, MPEG-4, and MJPEG streaming.
- Built-in web server.
- 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.).
- Composite video output.
- Precise pan/tilt mechanism.
- Daylight camera.
- IP66 rated.
- IP control: FLIR PT series cameras can be integrated into any existing TCP/IP network and controlled using a personal computer.
- Serial control interface, use Pelco D or Bosch commands over RS-232, RS-422, or RS-485 to remotely control the FLIR A310 pt.
- Multi-camera software: FLIR Sensors Manager allows users to manage and control a FLIR PT series camera in a TCP/IP network.

Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	15° × 11.25°
Minimum focus distance	1.2 m (3.93 ft.)
Focal length	30.38 mm (1.2 in.)
Spatial resolution (IFOV)	0.82 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	30 Hz
Focus	Automatic or manual (built in motor)
Zoom	1–8x continuous, digital, interpolating zooming on images

Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
Detector pitch	25 μm



FLIR A310pt 15° PAL

P/N: 61001-1102

Revision

46397

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2017-11-16 16:26 UTC+1

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Detector data	
Detector time constant	Typical 12 ms

Measurement	
Object temperature range	<ul style="list-style-type: none">-20 to +120°C (-4 to +248°F)0 to +350°C (+32 to +662°F)
Accuracy	±4°C (±7.2°F) or ±4% of reading

Measurement analysis	
Spotmeter	10
Area	10 boxes with max./min./average/position (7 if FLIR Sensors Manager is used)
Isotherm	1 with above/below/interval
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global and individual object parameters

Alarm	
Alarm functions	6 automatic alarms on any selected measurement function, camera temperature

Set-up	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature (°C/°F)

Imaging and optical data (visual camera)	
Field of view (FOV)	57.8° (H) to 1.7° (H)
Focal length	3.4 mm (wide) to 122.4 mm (tele)
F-number	1.6 to 4.5
Focus	Automatic or manual (built in motor)
Optical Zoom	36x continuous
Electronic Zoom	12x continuous, digital, interpolating

Detector data (visual camera)	
Focal plane array (FPA)	1/4" Exview HAD CCD
Effective pixels	380.000

Technical specification (pan & tilt)	
Azimuth Range	Az velocity 360° continuous, 0.1 to 60°/sec max
Elevation Range	El velocity ± 45°, 0.1 to 30°/sec. max
Programmable presets	128
Automatic heaters	Clears window from ice. Switched on at +4°C (39°F). Switched off at +15°C (59°F).



FLIR A310pt 15° PAL

P/N: 61001-1102

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Ethernet	
Ethernet	Control, result and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	
Ethernet, video streaming	Two independent channels for each camera - MPEG-4, H.264, or M-JPEG
Ethernet, protocols	TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Composite video	
Video out	Composite video output, PAL compatible
Video, standard	CVBS (ITU-R-BT.470 PAL)

Power system	
Power	24 VAC (21-30 VAC; 24 VAC: 215 VA max. with heater) or 24 VDC (21-30 VDC; 24 VDC: 195 W max. with heater).

Environmental data	
Operating temperature range	-25°C to +50°C (-13°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none">• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 66 (IEC 60529)
Bump	5 g, 11 ms (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	17.9 kg (39.5 lb.)
Size (L x W x H)	460 x 467 x 326 mm (18.1 x 18.4 x 12.8 in.)
Base mounting	
Housing material	Aluminum

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Pan & tilt with infrared camera including lens and visual camera• FLIR Sensors Manager download card• Lens cap• Printed documentation• Small accessories kit
Packaging, weight	
Packaging, size	671 x 564 x 464 mm (26.4 x 22.2 x 18.3 in.)
EAN-13	7332558008881



FLIR A310pt 15° PAL

P/N: 61001-1102

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Shipping information

UPC-12

845188009427

Country of origin

Sweden

Supplies & accessories:

- T130152; Special temperature range +200 to +1200 deg C
- 4119468; ADAPTER PLATE - PT-SERIES
- 223-0017-00; JOYSTICK ASSY, NEXUS CONSOLE
- 500-0461-00; PEDESTAL MOUNT ASSY - PT-SERIES
- 500-0509-00; POLE ADAPTER - PT-SERIES
- 4124857; POWER SUPPLY ASSY, 24VAC - PT-series
- 500-0460-00; WALL MOUNT ASSY - PT-SERIES
- 324-0010-00; Hard case - PT-SERIES
- 4130235; FLIR Sensors Manager, pro

P/N: 60902-1103

Revision

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General description

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The FLIR A310pt precision pan/tilt mechanism gives operators accurate pointing control while providing fully programmable scan patterns, radar slew-to-cue, and slew-to-alarm functionality.

Multi-sensor configurations also include a day/night 36x zoom color CCD camera on the same pan/tilt package.

Key features:

- Built-in extensive analysis functionality.
- Extensive alarm functionality, as a function of analysis and more.
- H.264, MPEG-4, and MJPEG streaming.
- Built-in web server.
- 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.).
- Composite video output.
- Precise pan/tilt mechanism.
- Daylight camera.
- IP66 rated.
- IP control: FLIR PT series cameras can be integrated into any existing TCP/IP network and controlled using a personal computer.
- Serial control interface, use Pelco D or Bosch commands over RS-232, RS-422, or RS-485 to remotely control the FLIR A310 pt.
- Multi-camera software: FLIR Sensors Manager allows users to manage and control a FLIR PT series camera in a TCP/IP network.

Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	25° × 18.8°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	1.36 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	9 Hz
Focus	Automatic or manual (built in motor)
Zoom	1–8x continuous, digital, interpolating zooming on images

Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
Detector pitch	25 μm



FLIR A310pt 25° (9 Hz) NTSC

P/N: 60902-1103

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Website

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Customer support

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Detector data	
Detector time constant	Typical 12 ms

Measurement	
Object temperature range	<ul style="list-style-type: none"> -20 to +120°C (-4 to +248°F) 0 to +350°C (+32 to +662°F)
Accuracy	±4°C (±7.2°F) or ±4% of reading

Measurement analysis	
Spotmeter	10
Area	10 boxes with max./min./average/position (7 if FLIR Sensors Manager is used)
Isotherm	1 with above/below/interval
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global and individual object parameters

Alarm	
Alarm functions	6 automatic alarms on any selected measurement function, camera temperature

Set-up	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature (°C/°F)

Imaging and optical data (visual camera)	
Field of view (FOV)	57.8° (H) to 1.7° (H)
Focal length	3.4 mm (wide) to 122.4 mm (tele)
F-number	1.6 to 4.5
Focus	Automatic or manual (built in motor)
Optical Zoom	36x continuous
Electronic Zoom	12x continuous, digital, interpolating

Detector data (visual camera)	
Focal plane array (FPA)	1/4" Exview HAD CCD
Effective pixels	380,000

Technical specification (pan & tilt)	
Azimuth Range	Az velocity 360° continuous, 0.1 to 60°/sec max
Elevation Range	El velocity ± 45°, 0.1 to 30°/sec. max
Programmable presets	128
Automatic heaters	Clears window from ice. Switched on at +4°C (39°F). Switched off at +15°C (59°F).



FLIR A310pt 25° (9 Hz) NTSC

P/N: 60902-1103

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Website

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Customer support

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Ethernet	
Ethernet	Control, result and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	
Ethernet, video streaming	Two independent channels for each camera - MPEG-4, H.264, or M-JPEG
Ethernet, protocols	TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Composite video	
Video out	Composite video output, NTSC compatible
Video, standard	CVBS (SMPTE 170M NTSC)

Power system	
Power	24 VAC (21-30 VAC; 24 VAC: 215 VA max. with heater) or 24 VDC (21-30 VDC; 24 VDC: 195 W max. with heater).

Environmental data	
Operating temperature range	-25°C to +50°C (-13°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none">• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 66 (IEC 60529)
Bump	5 g, 11 ms (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	17.8 kg (39.3 lb.)
Size (L x W x H)	460 x 467 x 326 mm (18.1 x 18.4 x 12.8 in.)
Base mounting	
Housing material	Aluminum

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Pan & tilt with infrared camera including lens and visual camera• FLIR Sensors Manager download card• Lens cap• Printed documentation• Small accessories kit
Packaging, weight	
Packaging, size	671 x 564 x 464 mm (26.4 x 22.2 x 18.3 in.)
EAN-13	7332558008898



FLIR A310pt 25° (9 Hz) NTSC

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>**Shipping information**

UPC-12

845188009434

Country of origin

Sweden

Supplies & accessories:

- T130152; Special temperature range +200 to +1200 deg C
- 4119468; ADAPTER PLATE - PT-SERIES
- 223-0017-00; JOYSTICK ASSY, NEXUS CONSOLE
- 500-0461-00; PEDESTAL MOUNT ASSY - PT-SERIES
- 500-0509-00; POLE ADAPTER - PT-SERIES
- 4124857; POWER SUPPLY ASSY, 24VAC - PT-series
- 500-0460-00; WALL MOUNT ASSY - PT-SERIES
- 324-0010-00; Hard case - PT-SERIES
- 4130235; FLIR Sensors Manager, pro

P/N: 60901-1103

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<p>Key features:</p> <ul style="list-style-type: none"> • Built-in extensive analysis functionality. • Extensive alarm functionality, as a function of analysis and more. • H.264, MPEG-4, and MJPEG streaming. • Built-in web server. • 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.). • Composite video output. • Precise pan/tilt mechanism. • Daylight camera. • IP66 rated. • IP control: FLIR PT series cameras can be integrated into any existing TCP/IP network and controlled using a personal computer. • Serial control interface, use Pelco D or Bosch commands over RS-232, RS-422, or RS-485 to remotely control the FLIR A310 pt. • Multi-camera software: FLIR Sensors Manager allows users to manage and control a FLIR PT series camera in a TCP/IP network. 	

Imaging and optical data	
IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	25° × 18.8°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	1.36 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	9 Hz
Focus	Automatic or manual (built in motor)
Zoom	1–8x continuous, digital, interpolating zooming on images

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
Detector pitch	25 μm



FLIR A310pt 25° (9 Hz) PAL

P/N: 60901-1103

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Website

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Customer support

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Detector data	
Detector time constant	Typical 12 ms

Measurement	
Object temperature range	<ul style="list-style-type: none"> -20 to +120°C (-4 to +248°F) 0 to +350°C (+32 to +662°F)
Accuracy	±4°C (±7.2°F) or ±4% of reading

Measurement analysis	
Spotmeter	10
Area	10 boxes with max./min./average/position (7 if FLIR Sensors Manager is used)
Isotherm	1 with above/below/interval
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global and individual object parameters

Alarm	
Alarm functions	6 automatic alarms on any selected measurement function, camera temperature

Set-up	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature (°C/°F)

Imaging and optical data (visual camera)	
Field of view (FOV)	57.8° (H) to 1.7° (H)
Focal length	3.4 mm (wide) to 122.4 mm (tele)
F-number	1.6 to 4.5
Focus	Automatic or manual (built in motor)
Optical Zoom	36x continuous
Electronic Zoom	12x continuous, digital, interpolating

Detector data (visual camera)	
Focal plane array (FPA)	1/4" Exview HAD CCD
Effective pixels	380.000

Technical specification (pan & tilt)	
Azimuth Range	Az velocity 360° continuous, 0.1 to 60°/sec max
Elevation Range	El velocity ± 45°, 0.1 to 30°/sec. max
Programmable presets	128
Automatic heaters	Clears window from ice. Switched on at +4°C (39°F). Switched off at +15°C (59°F).



FLIR A310pt 25° (9 Hz) PAL

P/N: 60901-1103

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Ethernet	
Ethernet	Control, result and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	
Ethernet, video streaming	Two independent channels for each camera - MPEG-4, H.264, or M-JPEG
Ethernet, protocols	TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Composite video	
Video out	Composite video output, PAL compatible
Video, standard	CVBS (ITU-R-BT.470 PAL)

Power system	
Power	24 VAC (21-30 VAC; 24 VAC: 215 VA max. with heater) or 24 VDC (21-30 VDC; 24 VDC: 195 W max. with heater).

Environmental data	
Operating temperature range	-25°C to +50°C (-13°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none">• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 66 (IEC 60529)
Bump	5 g, 11 ms (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	17.8 kg (39.3 lb.)
Size (L x W x H)	460 x 467 x 326 mm (18.1 x 18.4 x 12.8 in.)
Base mounting	
Housing material	Aluminum

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Pan & tilt with infrared camera including lens and visual camera• FLIR Sensors Manager download card• Lens cap• Printed documentation• Small accessories kit
Packaging, weight	
Packaging, size	671 x 564 x 464 mm (26.4 x 22.2 x 18.3 in.)
EAN-13	7332558007891



FLIR A310pt 25° (9 Hz) PAL

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>**Shipping information**

UPC-12	845188008260
Country of origin	Sweden

Supplies & accessories:

- T130152; Special temperature range +200 to +1200 deg C
- 4119468; ADAPTER PLATE - PT-SERIES
- 223-0017-00; JOYSTICK ASSY, NEXUS CONSOLE
- 500-0461-00; PEDESTAL MOUNT ASSY - PT-SERIES
- 500-0509-00; POLE ADAPTER - PT-SERIES
- 4124857; POWER SUPPLY ASSY, 24VAC - PT-series
- 500-0460-00; WALL MOUNT ASSY - PT-SERIES
- 324-0010-00; Hard case - PT-SERIES
- 4130235; FLIR Sensors Manager, pro

P/N: 61002-1103

Revision

46400

Last modified

2017-11-16 16:30 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

The FLIR A310pt Pan & Tilt is an affordable solution for anyone who needs to solve problems that require built in “smartness” such as analysis and alarm functionality. The FLIR A310pt Pan & Tilt has all the necessary features and functions to build distributed single- or multi-camera solutions to cover large areas to monitor such as in coal pile monitoring and sub-station monitoring using standard Ethernet hardware and software protocols.

The FLIR A310pt precision pan/tilt mechanism gives operators accurate pointing control while providing fully programmable scan patterns, radar slew-to-cue, and slew-to-alarm functionality.

Multi-sensor configurations also include a day/night 36x zoom color CCD camera on the same pan/tilt package.

Key features:

- Built-in extensive analysis functionality.
- Extensive alarm functionality, as a function of analysis and more.
- H.264, MPEG-4, and MJPEG streaming.
- Built-in web server.
- 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.).
- Composite video output.
- Precise pan/tilt mechanism.
- Daylight camera.
- IP66 rated.
- IP control: FLIR PT series cameras can be integrated into any existing TCP/IP network and controlled using a personal computer.
- Serial control interface, use Pelco D or Bosch commands over RS-232, RS-422, or RS-485 to remotely control the FLIR A310 pt.
- Multi-camera software: FLIR Sensors Manager allows users to manage and control a FLIR PT series camera in a TCP/IP network.

Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	25° × 18.8°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	1.36 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	30 Hz
Focus	Automatic or manual (built in motor)
Zoom	1–8x continuous, digital, interpolating zooming on images

Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
Detector pitch	25 μm



FLIR A310pt 25° NTSC

P/N: 61002-1103

Revision

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Website

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Customer support

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Detector data	
Detector time constant	Typical 12 ms

Measurement	
Object temperature range	<ul style="list-style-type: none">-20 to +120°C (-4 to +248°F)0 to +350°C (+32 to +662°F)
Accuracy	±4°C (±7.2°F) or ±4% of reading

Measurement analysis	
Spotmeter	10
Area	10 boxes with max./min./average/position (7 if FLIR Sensors Manager is used)
Isotherm	1 with above/below/interval
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global and individual object parameters

Alarm	
Alarm functions	6 automatic alarms on any selected measurement function, camera temperature

Set-up	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature (°C/°F)

Imaging and optical data (visual camera)	
Field of view (FOV)	57.8° (H) to 1.7° (H)
Focal length	3.4 mm (wide) to 122.4 mm (tele)
F-number	1.6 to 4.5
Focus	Automatic or manual (built in motor)
Optical Zoom	36x continuous
Electronic Zoom	12x continuous, digital, interpolating

Detector data (visual camera)	
Focal plane array (FPA)	1/4" Exview HAD CCD
Effective pixels	380.000

Technical specification (pan & tilt)	
Azimuth Range	Az velocity 360° continuous, 0.1 to 60°/sec max
Elevation Range	El velocity +/- 45°, 0.1 to 30°/sec. max
Programmable presets	128
Automatic heaters	Clears window from ice. Switched on at +4°C (39°F). Switched off at +15°C (59°F).



FLIR A310pt 25° NTSC

P/N: 61002-1103

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Website

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Customer support

<http://support.flir.com>

Ethernet	
Ethernet	Control, result and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	
Ethernet, video streaming	Two independent channels for each camera - MPEG-4, H.264, or M-JPEG
Ethernet, protocols	TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Composite video	
Video out	Composite video output, NTSC compatible
Video, standard	CVBS (SMPTE 170M NTSC)

Power system	
Power	24 VAC (21-30 VAC; 24 VAC: 215 VA max. with heater) or 24 VDC (21-30 VDC; 24 VDC: 195 W max. with heater).

Environmental data	
Operating temperature range	-25°C to +50°C (-13°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none">• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 66 (IEC 60529)
Bump	5 g, 11 ms (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	17.8 kg (39.3 lb.)
Size (L x W x H)	460 x 467 x 326 mm (18.1 x 18.4 x 12.8 in.)
Base mounting	
Housing material	Aluminum

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Pan & tilt with infrared camera including lens and visual camera• FLIR Sensors Manager download card• Lens cap• Printed documentation• Small accessories kit
Packaging, weight	
Packaging, size	671 x 564 x 464 mm (26.4 x 22.2 x 18.3 in.)
EAN-13	7332558005910



FLIR A310pt 25° NTSC

P/N: 61002-1103

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Shipping information

UPC-12

845188006105

Country of origin

Sweden

Supplies & accessories:

- T130152; Special temperature range +200 to +1200 deg C
- 4119468; ADAPTER PLATE - PT-SERIES
- 223-0017-00; JOYSTICK ASSY, NEXUS CONSOLE
- 500-0461-00; PEDESTAL MOUNT ASSY - PT-SERIES
- 500-0509-00; POLE ADAPTER - PT-SERIES
- 4124857; POWER SUPPLY ASSY, 24VAC - PT-series
- 500-0460-00; WALL MOUNT ASSY - PT-SERIES
- 324-0010-00; Hard case - PT-SERIES
- 4130235; FLIR Sensors Manager, pro

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Website

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Customer support

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General description	
<p>The FLIR A310pt Pan & Tilt is an affordable solution for anyone who needs to solve problems that require built in “smartness” such as analysis and alarm functionality. The FLIR A310pt Pan & Tilt has all the necessary features and functions to build distributed single- or multi-camera solutions to cover large areas to monitor such as in coal pile monitoring and sub-station monitoring using standard Ethernet hardware and software protocols.</p> <p>The FLIR A310pt precision pan/tilt mechanism gives operators accurate pointing control while providing fully programmable scan patterns, radar slew-to-cue, and slew-to-alarm functionality.</p> <p>Multi-sensor configurations also include a day/night 36x zoom color CCD camera on the same pan/tilt package.</p>	
<p>Key features:</p> <ul style="list-style-type: none"> • Built-in extensive analysis functionality. • Extensive alarm functionality, as a function of analysis and more. • H.264, MPEG-4, and MJPEG streaming. • Built-in web server. • 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.). • Composite video output. • Precise pan/tilt mechanism. • Daylight camera. • IP66 rated. • IP control: FLIR PT series cameras can be integrated into any existing TCP/IP network and controlled using a personal computer. • Serial control interface, use Pelco D or Bosch commands over RS-232, RS-422, or RS-485 to remotely control the FLIR A310 pt. • Multi-camera software: FLIR Sensors Manager allows users to manage and control a FLIR PT series camera in a TCP/IP network. 	

Imaging and optical data	
IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	25° × 18.8°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	1.36 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	30 Hz
Focus	Automatic or manual (built in motor)
Zoom	1–8x continuous, digital, interpolating zooming on images

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
Detector pitch	25 μm



FLIR A310pt 25° PAL

P/N: 61001-1103

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Detector data	
Detector time constant	Typical 12 ms

Measurement	
Object temperature range	<ul style="list-style-type: none"> -20 to +120°C (-4 to +248°F) 0 to +350°C (+32 to +662°F)
Accuracy	±4°C (±7.2°F) or ±4% of reading

Measurement analysis	
Spotmeter	10
Area	10 boxes with max./min./average/position (7 if FLIR Sensors Manager is used)
Isotherm	1 with above/below/interval
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global and individual object parameters

Alarm	
Alarm functions	6 automatic alarms on any selected measurement function, camera temperature

Set-up	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature (°C/°F)

Imaging and optical data (visual camera)	
Field of view (FOV)	57.8° (H) to 1.7° (H)
Focal length	3.4 mm (wide) to 122.4 mm (tele)
F-number	1.6 to 4.5
Focus	Automatic or manual (built in motor)
Optical Zoom	36x continuous
Electronic Zoom	12x continuous, digital, interpolating

Detector data (visual camera)	
Focal plane array (FPA)	1/4" Exview HAD CCD
Effective pixels	380.000

Technical specification (pan & tilt)	
Azimuth Range	Az velocity 360° continuous, 0.1 to 60°/sec max
Elevation Range	El velocity ± 45°, 0.1 to 30°/sec. max
Programmable presets	128
Automatic heaters	Clears window from ice. Switched on at +4°C (39°F). Switched off at +15°C (59°F).



FLIR A310pt 25° PAL

P/N: 61001-1103

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Ethernet	
Ethernet	Control, result and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	
Ethernet, video streaming	Two independent channels for each camera - MPEG-4, H.264, or M-JPEG
Ethernet, protocols	TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Composite video	
Video out	Composite video output, PAL compatible
Video, standard	CVBS (ITU-R-BT.470 PAL)

Power system	
Power	24 VAC (21-30 VAC; 24 VAC: 215 VA max. with heater) or 24 VDC (21-30 VDC; 24 VDC: 195 W max. with heater).

Environmental data	
Operating temperature range	-25°C to +50°C (-13°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none">• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 66 (IEC 60529)
Bump	5 g, 11 ms (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	17.8 kg (39.3 lb.)
Size (L x W x H)	460 x 467 x 326 mm (18.1 x 18.4 x 12.8 in.)
Base mounting	
Housing material	Aluminum

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Pan & tilt with infrared camera including lens and visual camera• FLIR Sensors Manager download card• Lens cap• Printed documentation• Small accessories kit
Packaging, weight	
Packaging, size	671 x 564 x 464 mm (26.4 x 22.2 x 18.3 in.)
EAN-13	7332558008904



FLIR A310pt 25° PAL

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>**Shipping information**

UPC-12

845188009441

Country of origin

Sweden

Supplies & accessories:

- T130152; Special temperature range +200 to +1200 deg C
- 4119468; ADAPTER PLATE - PT-SERIES
- 223-0017-00; JOYSTICK ASSY, NEXUS CONSOLE
- 500-0461-00; PEDESTAL MOUNT ASSY - PT-SERIES
- 500-0509-00; POLE ADAPTER - PT-SERIES
- 4124857; POWER SUPPLY ASSY, 24VAC - PT-series
- 500-0460-00; WALL MOUNT ASSY - PT-SERIES
- 324-0010-00; Hard case - PT-SERIES
- 4130235; FLIR Sensors Manager, pro

P/N: 60902-1104

Revision

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Website

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Customer support

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General description

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The FLIR A310pt precision pan/tilt mechanism gives operators accurate pointing control while providing fully programmable scan patterns, radar slew-to-cue, and slew-to-alarm functionality.

Multi-sensor configurations also include a day/night 36x zoom color CCD camera on the same pan/tilt package.

Key features:

- Built-in extensive analysis functionality.
- Extensive alarm functionality, as a function of analysis and more.
- H.264, MPEG-4, and MJPEG streaming.
- Built-in web server.
- 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.).
- Composite video output.
- Precise pan/tilt mechanism.
- Daylight camera.
- IP66 rated.
- IP control: FLIR PT series cameras can be integrated into any existing TCP/IP network and controlled using a personal computer.
- Serial control interface, use Pelco D or Bosch commands over RS-232, RS-422, or RS-485 to remotely control the FLIR A310 pt.
- Multi-camera software: FLIR Sensors Manager allows users to manage and control a FLIR PT series camera in a TCP/IP network.

Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	45° × 33.8°
Minimum focus distance	0.20 m (0.66 ft.)
Focal length	9.66 mm (0.38 in.)
Spatial resolution (IFOV)	2.59 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	9 Hz
Focus	Automatic or manual (built in motor)
Zoom	1–8x continuous, digital, interpolating zooming on images

Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
Detector pitch	25 μm



FLIR A310pt 45° (9 Hz) NTSC

P/N: 60902-1104

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Detector data	
Detector time constant	Typical 12 ms

Measurement	
Object temperature range	<ul style="list-style-type: none"> -20 to +120°C (-4 to +248°F) 0 to +350°C (+32 to +662°F)
Accuracy	±4°C (±7.2°F) or ±4% of reading

Measurement analysis	
Spotmeter	10
Area	10 boxes with max./min./average/position (7 if FLIR Sensors Manager is used)
Isotherm	1 with above/below/interval
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global and individual object parameters

Alarm	
Alarm functions	6 automatic alarms on any selected measurement function, camera temperature

Set-up	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature (°C/°F)

Imaging and optical data (visual camera)	
Field of view (FOV)	57.8° (H) to 1.7° (H)
Focal length	3.4 mm (wide) to 122.4 mm (tele)
F-number	1.6 to 4.5
Focus	Automatic or manual (built in motor)
Optical Zoom	36x continuous
Electronic Zoom	12x continuous, digital, interpolating

Detector data (visual camera)	
Focal plane array (FPA)	1/4" Exview HAD CCD
Effective pixels	380.000

Technical specification (pan & tilt)	
Azimuth Range	Az velocity 360° continuous, 0.1 to 60°/sec max
Elevation Range	El velocity ± 45°, 0.1 to 30°/sec. max
Programmable presets	128
Automatic heaters	Clears window from ice. Switched on at +4°C (39°F). Switched off at +15°C (59°F).



FLIR A310pt 45° (9 Hz) NTSC

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Website

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Customer support

<http://support.flir.com>

Ethernet	
Ethernet	Control, result and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	
Ethernet, video streaming	Two independent channels for each camera - MPEG-4, H.264, or M-JPEG
Ethernet, protocols	TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Composite video	
Video out	Composite video output, NTSC compatible
Video, standard	CVBS (SMPTE 170M NTSC)

Power system	
Power	24 VAC (21-30 VAC; 24 VAC: 215 VA max. with heater) or 24 VDC (21-30 VDC; 24 VDC: 195 W max. with heater).

Environmental data	
Operating temperature range	-25°C to +50°C (-13°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none">• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 66 (IEC 60529)
Bump	5 g, 11 ms (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	17.9 kg (39.5 lb.)
Size (L x W x H)	460 x 467 x 326 mm (18.1 x 18.4 x 12.8 in.)
Base mounting	
Housing material	Aluminum

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Pan & tilt with infrared camera including lens and visual camera• FLIR Sensors Manager download card• Lens cap• Printed documentation• Small accessories kit
Packaging, weight	
Packaging, size	671 x 564 x 464 mm (26.4 x 22.2 x 18.3 in.)
EAN-13	7332558008911



FLIR A310pt 45° (9 Hz) NTSC

P/N: 60902-1104

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>**Shipping information**

UPC-12

845188009458

Country of origin

Sweden

Supplies & accessories:

- T130152; Special temperature range +200 to +1200 deg C
- 4119468; ADAPTER PLATE - PT-SERIES
- 223-0017-00; JOYSTICK ASSY, NEXUS CONSOLE
- 500-0461-00; PEDESTAL MOUNT ASSY - PT-SERIES
- 500-0509-00; POLE ADAPTER - PT-SERIES
- 4124857; POWER SUPPLY ASSY, 24VAC - PT-series
- 500-0460-00; WALL MOUNT ASSY - PT-SERIES
- 324-0010-00; Hard case - PT-SERIES
- 4130235; FLIR Sensors Manager, pro

P/N: 60901-1104

Revision

46403

Last modified

2017-11-16 16:35 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

The FLIR A310pt Pan & Tilt is an affordable solution for anyone who needs to solve problems that require built in "smartness" such as analysis and alarm functionality. The FLIR A310pt Pan & Tilt has all the necessary features and functions to build distributed single- or multi-camera solutions to cover large areas to monitor such as in coal pile monitoring and sub-station monitoring using standard Ethernet hardware and software protocols.

The FLIR A310pt precision pan/tilt mechanism gives operators accurate pointing control while providing fully programmable scan patterns, radar slew-to-cue, and slew-to-alarm functionality.

Multi-sensor configurations also include a day/night 36x zoom color CCD camera on the same pan/tilt package.

Key features:

- Built-in extensive analysis functionality.
- Extensive alarm functionality, as a function of analysis and more.
- H.264, MPEG-4, and MJPEG streaming.
- Built-in web server.
- 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.).
- Composite video output.
- Precise pan/tilt mechanism.
- Daylight camera.
- IP66 rated.
- IP control: FLIR PT series cameras can be integrated into any existing TCP/IP network and controlled using a personal computer.
- Serial control interface, use Pelco D or Bosch commands over RS-232, RS-422, or RS-485 to remotely control the FLIR A310 pt.
- Multi-camera software: FLIR Sensors Manager allows users to manage and control a FLIR PT series camera in a TCP/IP network.

Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	45° × 33.8°
Minimum focus distance	0.20 m (0.66 ft.)
Focal length	9.66 mm (0.38 in.)
Spatial resolution (IFOV)	2.59 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	9 Hz
Focus	Automatic or manual (built in motor)
Zoom	1–8x continuous, digital, interpolating zooming on images

Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
Detector pitch	25 μm



FLIR A310pt 45° (9 Hz) PAL

P/N: 60901-1104

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Detector data	
Detector time constant	Typical 12 ms

Measurement	
Object temperature range	<ul style="list-style-type: none"> -20 to +120°C (-4 to +248°F) 0 to +350°C (+32 to +662°F)
Accuracy	±4°C (±7.2°F) or ±4% of reading

Measurement analysis	
Spotmeter	10
Area	10 boxes with max./min./average/position (7 if FLIR Sensors Manager is used)
Isotherm	1 with above/below/interval
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global and individual object parameters

Alarm	
Alarm functions	6 automatic alarms on any selected measurement function, camera temperature

Set-up	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature (°C/°F)

Imaging and optical data (visual camera)	
Field of view (FOV)	57.8° (H) to 1.7° (H)
Focal length	3.4 mm (wide) to 122.4 mm (tele)
F-number	1.6 to 4.5
Focus	Automatic or manual (built in motor)
Optical Zoom	36x continuous
Electronic Zoom	12x continuous, digital, interpolating

Detector data (visual camera)	
Focal plane array (FPA)	1/4" Exview HAD CCD
Effective pixels	380.000

Technical specification (pan & tilt)	
Azimuth Range	Az velocity 360° continuous, 0.1 to 60°/sec max
Elevation Range	El velocity ± 45°, 0.1 to 30°/sec. max
Programmable presets	128
Automatic heaters	Clears window from ice. Switched on at +4°C (39°F). Switched off at +15°C (59°F).



FLIR A310pt 45° (9 Hz) PAL

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Website

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Customer support

<http://support.flir.com>

Ethernet	
Ethernet	Control, result and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	
Ethernet, video streaming	Two independent channels for each camera - MPEG-4, H.264, or M-JPEG
Ethernet, protocols	TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Composite video	
Video out	Composite video output, PAL compatible
Video, standard	CVBS (ITU-R-BT.470 PAL)

Power system	
Power	24 VAC (21-30 VAC; 24 VAC: 215 VA max. with heater) or 24 VDC (21-30 VDC; 24 VDC: 195 W max. with heater).

Environmental data	
Operating temperature range	-25°C to +50°C (-13°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none">EN 61000-6-2 (Immunity)EN 61000-6-3 (Emission)FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 66 (IEC 60529)
Bump	5 g, 11 ms (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	17.9 kg (39.5 lb.)
Size (L x W x H)	460 x 467 x 326 mm (18.1 x 18.4 x 12.8 in.)
Base mounting	
Housing material	Aluminum

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">Pan & tilt with infrared camera including lens and visual cameraFLIR Sensors Manager download cardLens capPrinted documentationSmall accessories kit
Packaging, weight	
Packaging, size	671 x 564 x 464 mm (26.4 x 22.2 x 18.3 in.)
EAN-13	7332558008928



FLIR A310pt 45° (9 Hz) PAL

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>**Shipping information**

UPC-12

845188009465

Country of origin

Sweden

Supplies & accessories:

- T130152; Special temperature range +200 to +1200 deg C
- 4119468; ADAPTER PLATE - PT-SERIES
- 223-0017-00; JOYSTICK ASSY, NEXUS CONSOLE
- 500-0461-00; PEDESTAL MOUNT ASSY - PT-SERIES
- 500-0509-00; POLE ADAPTER - PT-SERIES
- 4124857; POWER SUPPLY ASSY, 24VAC - PT-series
- 500-0460-00; WALL MOUNT ASSY - PT-SERIES
- 324-0010-00; Hard case - PT-SERIES
- 4130235; FLIR Sensors Manager, pro

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The FLIR A310pt Pan & Tilt is an affordable solution for anyone who needs to solve problems that require built in “smartness” such as analysis and alarm functionality. The FLIR A310pt Pan & Tilt has all the necessary features and functions to build distributed single- or multi-camera solutions to cover large areas to monitor such as in coal pile monitoring and sub-station monitoring using standard Ethernet hardware and software protocols.

The FLIR A310pt precision pan/tilt mechanism gives operators accurate pointing control while providing fully programmable scan patterns, radar slew-to-cue, and slew-to-alarm functionality.

Multi-sensor configurations also include a day/night 36× zoom color CCD camera on the same pan/tilt package.

Key features:

- Built-in extensive analysis functionality.
- Extensive alarm functionality, as a function of analysis and more.
- H.264, MPEG-4, and MJPEG streaming.
- Built-in web server.
- 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.).
- Composite video output.
- Precise pan/tilt mechanism.
- Daylight camera.
- IP66 rated.
- IP control: FLIR PT series cameras can be integrated into any existing TCP/IP network and controlled using a personal computer.
- Serial control interface, use Pelco D or Bosch commands over RS-232, RS-422, or RS-485 to remotely control the FLIR A310 pt.
- Multi-camera software: FLIR Sensors Manager allows users to manage and control a FLIR PT series camera in a TCP/IP network.

Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	45° × 33.8°
Minimum focus distance	0.20 m (0.66 ft.)
Focal length	9.66 mm (0.38 in.)
Spatial resolution (IFOV)	2.59 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	30 Hz
Focus	Automatic or manual (built in motor)
Zoom	1–8× continuous, digital, interpolating zooming on images

Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
Detector pitch	25 μm



FLIR A310pt 45° NTSC

P/N: 61002-1104

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Website

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Customer support

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Detector data	
Detector time constant	Typical 12 ms

Measurement	
Object temperature range	<ul style="list-style-type: none">-20 to +120°C (-4 to +248°F)0 to +350°C (+32 to +662°F)
Accuracy	±4°C (±7.2°F) or ±4% of reading

Measurement analysis	
Spotmeter	10
Area	10 boxes with max./min./average/position (7 if FLIR Sensors Manager is used)
Isotherm	1 with above/below/interval
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global and individual object parameters

Alarm	
Alarm functions	6 automatic alarms on any selected measurement function, camera temperature

Set-up	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature (°C/°F)

Imaging and optical data (visual camera)	
Field of view (FOV)	57.8° (H) to 1.7° (H)
Focal length	3.4 mm (wide) to 122.4 mm (tele)
F-number	1.6 to 4.5
Focus	Automatic or manual (built in motor)
Optical Zoom	36x continuous
Electronic Zoom	12x continuous, digital, interpolating

Detector data (visual camera)	
Focal plane array (FPA)	1/4" Exview HAD CCD
Effective pixels	380.000

Technical specification (pan & tilt)	
Azimuth Range	Az velocity 360° continuous, 0.1 to 60°/sec max
Elevation Range	El velocity ± 45°, 0.1 to 30°/sec. max
Programmable presets	128
Automatic heaters	Clears window from ice. Switched on at +4°C (39°F). Switched off at +15°C (59°F).



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Customer support

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Ethernet	
Ethernet	Control, result and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	
Ethernet, video streaming	Two independent channels for each camera - MPEG-4, H.264, or M-JPEG
Ethernet, protocols	TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Composite video	
Video out	Composite video output, NTSC compatible
Video, standard	CVBS (SMPTE 170M NTSC)

Power system	
Power	24 VAC (21-30 VAC; 24 VAC: 215 VA max. with heater) or 24 VDC (21-30 VDC; 24 VDC: 195 W max. with heater).

Environmental data	
Operating temperature range	-25°C to +50°C (-13°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none">• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 66 (IEC 60529)
Bump	5 g, 11 ms (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	17.9 kg (39.5 lb.)
Size (L x W x H)	460 x 467 x 326 mm (18.1 x 18.4 x 12.8 in.)
Base mounting	
Housing material	Aluminum

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Pan & tilt with infrared camera including lens and visual camera• FLIR Sensors Manager download card• Lens cap• Printed documentation• Small accessories kit
Packaging, weight	
Packaging, size	671 x 564 x 464 mm (26.4 x 22.2 x 18.3 in.)
EAN-13	7332558008935



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UPC-12

845188009472

Country of origin

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- 500-0509-00; POLE ADAPTER - PT-SERIES
- 4124857; POWER SUPPLY ASSY, 24VAC - PT-series
- 500-0460-00; WALL MOUNT ASSY - PT-SERIES
- 324-0010-00; Hard case - PT-SERIES
- 4130235; FLIR Sensors Manager, pro

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The FLIR A310pt precision pan/tilt mechanism gives operators accurate pointing control while providing fully programmable scan patterns, radar slew-to-cue, and slew-to-alarm functionality.

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- Built-in extensive analysis functionality.
- Extensive alarm functionality, as a function of analysis and more.
- H.264, MPEG-4, and MJPEG streaming.
- Built-in web server.
- 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.).
- Composite video output.
- Precise pan/tilt mechanism.
- Daylight camera.
- IP66 rated.
- IP control: FLIR PT series cameras can be integrated into any existing TCP/IP network and controlled using a personal computer.
- Serial control interface, use Pelco D or Bosch commands over RS-232, RS-422, or RS-485 to remotely control the FLIR A310 pt.
- Multi-camera software: FLIR Sensors Manager allows users to manage and control a FLIR PT series camera in a TCP/IP network.

Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	45° × 33.8°
Minimum focus distance	0.20 m (0.66 ft.)
Focal length	9.66 mm (0.38 in.)
Spatial resolution (IFOV)	2.59 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	30 Hz
Focus	Automatic or manual (built in motor)
Zoom	1–8x continuous, digital, interpolating zooming on images

Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
Detector pitch	25 μm



FLIR A310pt 45° PAL

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Website

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Customer support

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Detector data	
Detector time constant	Typical 12 ms

Measurement	
Object temperature range	<ul style="list-style-type: none"> -20 to +120°C (-4 to +248°F) 0 to +350°C (+32 to +662°F)
Accuracy	±4°C (±7.2°F) or ±4% of reading

Measurement analysis	
Spotmeter	10
Area	10 boxes with max./min./average/position (7 if FLIR Sensors Manager is used)
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Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global and individual object parameters

Alarm	
Alarm functions	6 automatic alarms on any selected measurement function, camera temperature

Set-up	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature (°C/°F)

Imaging and optical data (visual camera)	
Field of view (FOV)	57.8° (H) to 1.7° (H)
Focal length	3.4 mm (wide) to 122.4 mm (tele)
F-number	1.6 to 4.5
Focus	Automatic or manual (built in motor)
Optical Zoom	36x continuous
Electronic Zoom	12x continuous, digital, interpolating

Detector data (visual camera)	
Focal plane array (FPA)	1/4" Exview HAD CCD
Effective pixels	380.000

Technical specification (pan & tilt)	
Azimuth Range	Az velocity 360° continuous, 0.1 to 60°/sec max
Elevation Range	El velocity ± 45°, 0.1 to 30°/sec. max
Programmable presets	128
Automatic heaters	Clears window from ice. Switched on at +4°C (39°F). Switched off at +15°C (59°F).



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Ethernet	
Ethernet	Control, result and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	
Ethernet, video streaming	Two independent channels for each camera - MPEG-4, H.264, or M-JPEG
Ethernet, protocols	TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Composite video	
Video out	Composite video output, PAL compatible
Video, standard	CVBS (ITU-R-BT.470 PAL)

Power system	
Power	24 VAC (21-30 VAC; 24 VAC: 215 VA max. with heater) or 24 VDC (21-30 VDC; 24 VDC: 195 W max. with heater).

Environmental data	
Operating temperature range	-25°C to +50°C (-13°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none">• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 66 (IEC 60529)
Bump	5 g, 11 ms (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

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Weight	17.9 kg (39.5 lb.)
Size (L x W x H)	460 x 467 x 326 mm (18.1 x 18.4 x 12.8 in.)
Base mounting	
Housing material	Aluminum

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Pan & tilt with infrared camera including lens and visual camera• Calibration certificate• Downloads brochure• FLIR Sensors Manager CD-ROM• Lens cap• Printed Getting Started Guide• Printed Important Information Guide• Service & training brochure• Small accessories kit• Registration card
Packaging, weight	



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Website<http://www.flir.com>**Customer support**<http://support.flir.com>**Shipping information**

Packaging, size	671 × 564 × 464 mm (26.4 × 22.2 × 18.3 in.)
EAN-13	7332558008942
UPC-12	845188009489
Country of origin	Sweden

Supplies & accessories:

- T130152; Special temperature range +200 to +1200 deg C
- 4119468; ADAPTER PLATE - PT-SERIES
- 223-0017-00; JOYSTICK ASSY, NEXUS CONSOLE
- 500-0461-00; PEDESTAL MOUNT ASSY - PT-SERIES
- 500-0509-00; POLE ADAPTER - PT-SERIES
- 4124857; POWER SUPPLY ASSY, 24VAC - PT-series
- 500-0460-00; WALL MOUNT ASSY - PT-SERIES
- 324-0010-00; Hard case - PT-SERIES
- 4130235; FLIR Sensors Manager, pro

P/N: 60902-1101

Revision

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Website

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Customer support

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General description	
<p>The FLIR A310pt Pan & Tilt is an affordable solution for anyone who needs to solve problems that require built in “smartness” such as analysis and alarm functionality. The FLIR A310pt Pan & Tilt has all the necessary features and functions to build distributed single- or multi-camera solutions to cover large areas to monitor such as in coal pile monitoring and sub-station monitoring using standard Ethernet hardware and software protocols.</p> <p>The FLIR A310pt precision pan/tilt mechanism gives operators accurate pointing control while providing fully programmable scan patterns, radar slew-to-cue, and slew-to-alarm functionality.</p> <p>Multi-sensor configurations also include a day/night 36x zoom color CCD camera on the same pan/tilt package.</p>	
<p>Key features:</p> <ul style="list-style-type: none"> • Built-in extensive analysis functionality. • Extensive alarm functionality, as a function of analysis and more. • H.264, MPEG-4, and MJPEG streaming. • Built-in web server. • 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.). • Composite video output. • Precise pan/tilt mechanism. • Daylight camera. • IP66 rated. • IP control: FLIR PT series cameras can be integrated into any existing TCP/IP network and controlled using a personal computer. • Serial control interface, use Pelco D or Bosch commands over RS-232, RS-422, or RS-485 to remotely control the FLIR A310 pt. • Multi-camera software: FLIR Sensors Manager allows users to manage and control a FLIR PT series camera in a TCP/IP network. 	

Imaging and optical data	
IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	6° × 4.5°
Minimum focus distance	4 m (13.11 ft.)
Focal length	76 mm (3.0 in.)
Spatial resolution (IFOV)	0.33 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	9 Hz
Focus	Automatic or manual (built in motor)
Zoom	1–8x continuous, digital, interpolating zooming on images

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
Detector pitch	25 μm



FLIR A310pt 6° (9 Hz) NTSC

P/N: 60902-1101

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Website

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Detector data	
Detector time constant	Typical 12 ms

Measurement	
Object temperature range	<ul style="list-style-type: none"> -20 to +120°C (-4 to +248°F) 0 to +350°C (+32 to +662°F)
Accuracy	±4°C (±7.2°F) or ±4% of reading

Measurement analysis	
Spotmeter	10
Area	10 boxes with max./min./average/position (7 if FLIR Sensors Manager is used)
Isotherm	1 with above/below/interval
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global and individual object parameters

Alarm	
Alarm functions	6 automatic alarms on any selected measurement function, camera temperature

Set-up	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature (°C/°F)

Imaging and optical data (visual camera)	
Field of view (FOV)	57.8° (H) to 1.7° (H)
Focal length	3.4 mm (wide) to 122.4 mm (tele)
F-number	1.6 to 4.5
Focus	Automatic or manual (built in motor)
Optical Zoom	36x continuous
Electronic Zoom	12x continuous, digital, interpolating

Detector data (visual camera)	
Focal plane array (FPA)	1/4" Exview HAD CCD
Effective pixels	380,000

Technical specification (pan & tilt)	
Azimuth Range	Az velocity 360° continuous, 0.1 to 60°/sec max
Elevation Range	El velocity ± 45°, 0.1 to 30°/sec. max
Programmable presets	128
Automatic heaters	Clears window from ice. Switched on at +4°C (39°F). Switched off at +15°C (59°F).



FLIR A310pt 6° (9 Hz) NTSC

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Website

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Customer support

<http://support.flir.com>

Ethernet	
Ethernet	Control, result and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	
Ethernet, video streaming	Two independent channels for each camera - MPEG-4, H.264, or M-JPEG
Ethernet, protocols	TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Composite video	
Video out	Composite video output, NTSC compatible
Video, standard	CVBS (SMPTE 170M NTSC)

Power system	
Power	24 VAC (21-30 VAC; 24 VAC: 215 VA max. with heater) or 24 VDC (21-30 VDC; 24 VDC: 195 W max. with heater).

Environmental data	
Operating temperature range	-25°C to +50°C (-13°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none">• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 66 (IEC 60529)
Bump	5 g, 11 ms (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	18.1 kg (40.0 lb.)
Size (L × W × H)	460 × 467 × 326 mm (18.1 × 18.4 × 12.8 in.)
Base mounting	
Housing material	Aluminum

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Pan & tilt with infrared camera including lens and visual camera• FLIR Sensors Manager download card• Lens cap• Printed documentation• Small accessories kit
Packaging, weight	
Packaging, size	671 × 564 × 464 mm (26.4 × 22.2 × 18.3 in.)
EAN-13	7332558008850



FLIR A310pt 6° (9 Hz) NTSC

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Shipping information

UPC-12	845188009397
Country of origin	Sweden

Supplies & accessories:

- T130152; Special temperature range +200 to +1200 deg C
- 4119468; ADAPTER PLATE - PT-SERIES
- 223-0017-00; JOYSTICK ASSY, NEXUS CONSOLE
- 500-0461-00; PEDESTAL MOUNT ASSY - PT-SERIES
- 500-0509-00; POLE ADAPTER - PT-SERIES
- 4124857; POWER SUPPLY ASSY, 24VAC - PT-series
- 500-0460-00; WALL MOUNT ASSY - PT-SERIES
- 324-0010-00; Hard case - PT-SERIES
- 4130235; FLIR Sensors Manager, pro

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General description

The FLIR A310pt Pan & Tilt is an affordable solution for anyone who needs to solve problems that require built in “smartness” such as analysis and alarm functionality. The FLIR A310pt Pan & Tilt has all the necessary features and functions to build distributed single- or multi-camera solutions to cover large areas to monitor such as in coal pile monitoring and sub-station monitoring using standard Ethernet hardware and software protocols.

The FLIR A310pt precision pan/tilt mechanism gives operators accurate pointing control while providing fully programmable scan patterns, radar slew-to-cue, and slew-to-alarm functionality.

Multi-sensor configurations also include a day/night 36x zoom color CCD camera on the same pan/tilt package.

Key features:

- Built-in extensive analysis functionality.
- Extensive alarm functionality, as a function of analysis and more.
- H.264, MPEG-4, and MJPEG streaming.
- Built-in web server.
- 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.).
- Composite video output.
- Precise pan/tilt mechanism.
- Daylight camera.
- IP66 rated.
- IP control: FLIR PT series cameras can be integrated into any existing TCP/IP network and controlled using a personal computer.
- Serial control interface, use Pelco D or Bosch commands over RS-232, RS-422, or RS-485 to remotely control the FLIR A310 pt.
- Multi-camera software: FLIR Sensors Manager allows users to manage and control a FLIR PT series camera in a TCP/IP network.

Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	6° × 4.5°
Minimum focus distance	4 m (13.11 ft.)
Focal length	76 mm (3.0 in.)
Spatial resolution (IFOV)	0.33 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	9 Hz
Focus	Automatic or manual (built in motor)
Zoom	1–8x continuous, digital, interpolating zooming on images

Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
Detector pitch	25 μm



FLIR A310pt 6° (9 Hz) PAL

P/N: 60901-1101

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Website

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Customer support

<http://support.flir.com>

Detector data	
Detector time constant	Typical 12 ms

Measurement	
Object temperature range	<ul style="list-style-type: none">-20 to +120°C (-4 to +248°F)0 to +350°C (+32 to +662°F)
Accuracy	±4°C (±7.2°F) or ±4% of reading

Measurement analysis	
Spotmeter	10
Area	10 boxes with max./min./average/position (7 if FLIR Sensors Manager is used)
Isotherm	1 with above/below/interval
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global and individual object parameters

Alarm	
Alarm functions	6 automatic alarms on any selected measurement function, camera temperature

Set-up	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature (°C/°F)

Imaging and optical data (visual camera)	
Field of view (FOV)	57.8° (H) to 1.7° (H)
Focal length	3.4 mm (wide) to 122.4 mm (tele)
F-number	1.6 to 4.5
Focus	Automatic or manual (built in motor)
Optical Zoom	36x continuous
Electronic Zoom	12x continuous, digital, interpolating

Detector data (visual camera)	
Focal plane array (FPA)	1/4" Exview HAD CCD
Effective pixels	380.000

Technical specification (pan & tilt)	
Azimuth Range	Az velocity 360° continuous, 0.1 to 60°/sec max
Elevation Range	El velocity ± 45°, 0.1 to 30°/sec. max
Programmable presets	128
Automatic heaters	Clears window from ice. Switched on at +4°C (39°F). Switched off at +15°C (59°F).



FLIR A310pt 6° (9 Hz) PAL

P/N: 60901-1101

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Website

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Customer support

<http://support.flir.com>

Ethernet	
Ethernet	Control, result and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	
Ethernet, video streaming	Two independent channels for each camera - MPEG-4, H.264, or M-JPEG
Ethernet, protocols	TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Composite video	
Video out	Composite video output, PAL compatible
Video, standard	CVBS (ITU-R-BT.470 PAL)

Power system	
Power	24 VAC (21-30 VAC; 24 VAC: 215 VA max. with heater) or 24 VDC (21-30 VDC; 24 VDC: 195 W max. with heater).

Environmental data	
Operating temperature range	-25°C to +50°C (-13°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none">EN 61000-6-2 (Immunity)EN 61000-6-3 (Emission)FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 66 (IEC 60529)
Bump	5 g, 11 ms (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	18.1 kg (40.0 lb.)
Size (L x W x H)	460 x 467 x 326 mm (18.1 x 18.4 x 12.8 in.)
Base mounting	
Housing material	Aluminum

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">Pan & tilt with infrared camera including lens and visual cameraFLIR Sensors Manager download cardLens capPrinted documentationSmall accessories kit
Packaging, weight	
Packaging, size	671 x 564 x 464 mm (26.4 x 22.2 x 18.3 in.)
EAN-13	7332558007938



FLIR A310pt 6° (9 Hz) PAL

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Website

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Customer support

<http://support.flir.com>

Shipping information

UPC-12	845188008291
Country of origin	Sweden

Supplies & accessories:

- T130152; Special temperature range +200 to +1200 deg C
- 4119468; ADAPTER PLATE - PT-SERIES
- 223-0017-00; JOYSTICK ASSY, NEXUS CONSOLE
- 500-0461-00; PEDESTAL MOUNT ASSY - PT-SERIES
- 500-0509-00; POLE ADAPTER - PT-SERIES
- 4124857; POWER SUPPLY ASSY, 24VAC - PT-series
- 500-0460-00; WALL MOUNT ASSY - PT-SERIES
- 324-0010-00; Hard case - PT-SERIES
- 4130235; FLIR Sensors Manager, pro

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Website

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Customer support

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General description	
<p>The FLIR A310pt Pan & Tilt is an affordable solution for anyone who needs to solve problems that require built in “smartness” such as analysis and alarm functionality. The FLIR A310pt Pan & Tilt has all the necessary features and functions to build distributed single- or multi-camera solutions to cover large areas to monitor such as in coal pile monitoring and sub-station monitoring using standard Ethernet hardware and software protocols.</p> <p>The FLIR A310pt precision pan/tilt mechanism gives operators accurate pointing control while providing fully programmable scan patterns, radar slew-to-cue, and slew-to-alarm functionality.</p> <p>Multi-sensor configurations also include a day/night 36x zoom color CCD camera on the same pan/tilt package.</p>	
<p>Key features:</p> <ul style="list-style-type: none"> • Built-in extensive analysis functionality. • Extensive alarm functionality, as a function of analysis and more. • H.264, MPEG-4, and MJPEG streaming. • Built-in web server. • 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.). • Composite video output. • Precise pan/tilt mechanism. • Daylight camera. • IP66 rated. • IP control: FLIR PT series cameras can be integrated into any existing TCP/IP network and controlled using a personal computer. • Serial control interface, use Pelco D or Bosch commands over RS-232, RS-422, or RS-485 to remotely control the FLIR A310 pt. • Multi-camera software: FLIR Sensors Manager allows users to manage and control a FLIR PT series camera in a TCP/IP network. 	

Imaging and optical data	
IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	6° × 4.5°
Minimum focus distance	4 m (13.11 ft.)
Focal length	76 mm (3.0 in.)
Spatial resolution (IFOV)	0.33 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	30 Hz
Focus	Automatic or manual (built in motor)
Zoom	1–8x continuous, digital, interpolating zooming on images

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
Detector pitch	25 μm



FLIR A310pt 6° NTSC

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Detector data	
Detector time constant	Typical 12 ms

Measurement	
Object temperature range	<ul style="list-style-type: none"> -20 to +120°C (-4 to +248°F) 0 to +350°C (+32 to +662°F)
Accuracy	±4°C (±7.2°F) or ±4% of reading

Measurement analysis	
Spotmeter	10
Area	10 boxes with max./min./average/position (7 if FLIR Sensors Manager is used)
Isotherm	1 with above/below/interval
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global and individual object parameters

Alarm	
Alarm functions	6 automatic alarms on any selected measurement function, camera temperature

Set-up	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature (°C/°F)

Imaging and optical data (visual camera)	
Field of view (FOV)	57.8° (H) to 1.7° (H)
Focal length	3.4 mm (wide) to 122.4 mm (tele)
F-number	1.6 to 4.5
Focus	Automatic or manual (built in motor)
Optical Zoom	36x continuous
Electronic Zoom	12x continuous, digital, interpolating

Detector data (visual camera)	
Focal plane array (FPA)	1/4" Exview HAD CCD
Effective pixels	380.000

Technical specification (pan & tilt)	
Azimuth Range	Az velocity 360° continuous, 0.1 to 60°/sec max
Elevation Range	El velocity ± 45°, 0.1 to 30°/sec. max
Programmable presets	128
Automatic heaters	Clears window from ice. Switched on at +4°C (39°F). Switched off at +15°C (59°F).



FLIR A310pt 6° NTSC

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Website

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Customer support

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Ethernet	
Ethernet	Control, result and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	
Ethernet, video streaming	Two independent channels for each camera - MPEG-4, H.264, or M-JPEG
Ethernet, protocols	TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Composite video	
Video out	Composite video output, NTSC compatible
Video, standard	CVBS (SMPTE 170M NTSC)

Power system	
Power	24 VAC (21-30 VAC; 24 VAC: 215 VA max. with heater) or 24 VDC (21-30 VDC; 24 VDC: 195 W max. with heater).

Environmental data	
Operating temperature range	-25°C to +50°C (-13°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none">• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 66 (IEC 60529)
Bump	5 g, 11 ms (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	18.1 kg (40.0 lb.)
Size (L x W x H)	460 x 467 x 326 mm (18.1 x 18.4 x 12.8 in.)
Base mounting	
Housing material	Aluminum

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Pan & tilt with infrared camera including lens and visual camera• FLIR Sensors Manager download card• Lens cap• Printed documentation• Small accessories kit
Packaging, weight	
Packaging, size	671 x 564 x 464 mm (26.4 x 22.2 x 18.3 in.)
EAN-13	7332558007242



FLIR A310pt 6° NTSC

P/N: 61002-1101

Revision

46408

Last modified

2017-11-16 16:42 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Shipping information

UPC-12	845188007614
Country of origin	Sweden

Supplies & accessories:

- T130152; Special temperature range +200 to +1200 deg C
- 4119468; ADAPTER PLATE - PT-SERIES
- 223-0017-00; JOYSTICK ASSY, NEXUS CONSOLE
- 500-0461-00; PEDESTAL MOUNT ASSY - PT-SERIES
- 500-0509-00; POLE ADAPTER - PT-SERIES
- 4124857; POWER SUPPLY ASSY, 24VAC - PT-series
- 500-0460-00; WALL MOUNT ASSY - PT-SERIES
- 324-0010-00; Hard case - PT-SERIES
- 4130235; FLIR Sensors Manager, pro

P/N: 61001-1101

Revision

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Website

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General description

The FLIR A310pt Pan & Tilt is an affordable solution for anyone who needs to solve problems that require built in “smartness” such as analysis and alarm functionality. The FLIR A310pt Pan & Tilt has all the necessary features and functions to build distributed single- or multi-camera solutions to cover large areas to monitor such as in coal pile monitoring and sub-station monitoring using standard Ethernet hardware and software protocols.

The FLIR A310pt precision pan/tilt mechanism gives operators accurate pointing control while providing fully programmable scan patterns, radar slew-to-cue, and slew-to-alarm functionality.

Multi-sensor configurations also include a day/night 36x zoom color CCD camera on the same pan/tilt package.

Key features:

- Built-in extensive analysis functionality.
- Extensive alarm functionality, as a function of analysis and more.
- H.264, MPEG-4, and MJPEG streaming.
- Built-in web server.
- 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.).
- Composite video output.
- Precise pan/tilt mechanism.
- Daylight camera.
- IP66 rated.
- IP control: FLIR PT series cameras can be integrated into any existing TCP/IP network and controlled using a personal computer.
- Serial control interface, use Pelco D or Bosch commands over RS-232, RS-422, or RS-485 to remotely control the FLIR A310 pt.
- Multi-camera software: FLIR Sensors Manager allows users to manage and control a FLIR PT series camera in a TCP/IP network.

Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	6° × 4.5°
Minimum focus distance	4 m (13.11 ft.)
Focal length	76 mm (3.0 in.)
Spatial resolution (IFOV)	0.33 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	30 Hz
Focus	Automatic or manual (built in motor)
Zoom	1–8x continuous, digital, interpolating zooming on images

Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
Detector pitch	25 μm

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Detector data	
Detector time constant	Typical 12 ms

Measurement	
Object temperature range	<ul style="list-style-type: none"> -20 to +120°C (-4 to +248°F) 0 to +350°C (+32 to +662°F)
Accuracy	±4°C (±7.2°F) or ±4% of reading

Measurement analysis	
Spotmeter	10
Area	10 boxes with max./min./average/position (7 if FLIR Sensors Manager is used)
Isotherm	1 with above/below/interval
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global and individual object parameters

Alarm	
Alarm functions	6 automatic alarms on any selected measurement function, camera temperature

Set-up	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature (°C/°F)

Imaging and optical data (visual camera)	
Field of view (FOV)	57.8° (H) to 1.7° (H)
Focal length	3.4 mm (wide) to 122.4 mm (tele)
F-number	1.6 to 4.5
Focus	Automatic or manual (built in motor)
Optical Zoom	36x continuous
Electronic Zoom	12x continuous, digital, interpolating

Detector data (visual camera)	
Focal plane array (FPA)	1/4" Exview HAD CCD
Effective pixels	380.000

Technical specification (pan & tilt)	
Azimuth Range	Az velocity 360° continuous, 0.1 to 60°/sec max
Elevation Range	El velocity ± 45°, 0.1 to 30°/sec. max
Programmable presets	128
Automatic heaters	Clears window from ice. Switched on at +4°C (39°F). Switched off at +15°C (59°F).



FLIR A310pt 6° PAL

P/N: 61001-1101

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Ethernet	
Ethernet	Control, result and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	
Ethernet, video streaming	Two independent channels for each camera - MPEG-4, H.264, or M-JPEG
Ethernet, protocols	TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Composite video	
Video out	Composite video output, PAL compatible
Video, standard	CVBS (ITU-R-BT.470 PAL)

Power system	
Power	24 VAC (21-30 VAC; 24 VAC: 215 VA max. with heater) or 24 VDC (21-30 VDC; 24 VDC: 195 W max. with heater).

Environmental data	
Operating temperature range	-25°C to +50°C (-13°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none">EN 61000-6-2 (Immunity)EN 61000-6-3 (Emission)FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 66 (IEC 60529)
Bump	5 g, 11 ms (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	18.1 kg (40.0 lb.)
Size (L x W x H)	460 x 467 x 326 mm (18.1 x 18.4 x 12.8 in.)
Base mounting	
Housing material	Aluminum

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">Pan & tilt with infrared camera including lens and visual cameraFLIR Sensors Manager download cardLens capPrinted documentationSmall accessories kit
Packaging, weight	
Packaging, size	671 x 564 x 464 mm (26.4 x 22.2 x 18.3 in.)
EAN-13	7332558005934



FLIR A310pt 6° PAL

P/N: 61001-1101

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>**Shipping information**

UPC-12	845188006129
Country of origin	Sweden

Supplies & accessories:

- T130152; Special temperature range +200 to +1200 deg C
- 4119468; ADAPTER PLATE - PT-SERIES
- 223-0017-00; JOYSTICK ASSY, NEXUS CONSOLE
- 500-0461-00; PEDESTAL MOUNT ASSY - PT-SERIES
- 500-0509-00; POLE ADAPTER - PT-SERIES
- 4124857; POWER SUPPLY ASSY, 24VAC - PT-series
- 500-0460-00; WALL MOUNT ASSY - PT-SERIES
- 324-0010-00; Hard case - PT-SERIES
- 4130235; FLIR Sensors Manager, pro

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Website

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General description

The FLIR A310pt Pan & Tilt is an affordable solution for anyone who needs to solve problems that require built in “smartness” such as analysis and alarm functionality. The FLIR A310pt Pan & Tilt has all the necessary features and functions to build distributed single- or multi-camera solutions to cover large areas to monitor such as in coal pile monitoring and sub-station monitoring using standard Ethernet hardware and software protocols.

The FLIR A310pt precision pan/tilt mechanism gives operators accurate pointing control while providing fully programmable scan patterns, radar slew-to-cue, and slew-to-alarm functionality.

Multi-sensor configurations also include a day/night 36x zoom color CCD camera on the same pan/tilt package.

Key features:

- Built-in extensive analysis functionality.
- Extensive alarm functionality, as a function of analysis and more.
- H.264, MPEG-4, and MJPEG streaming.
- Built-in web server.
- 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.).
- Composite video output.
- Precise pan/tilt mechanism.
- Daylight camera.
- IP66 rated.
- IP control: FLIR PT series cameras can be integrated into any existing TCP/IP network and controlled using a personal computer.
- Serial control interface, use Pelco D or Bosch commands over RS-232, RS-422, or RS-485 to remotely control the FLIR A310 pt.
- Multi-camera software: FLIR Sensors Manager allows users to manage and control a FLIR PT series camera in a TCP/IP network.

Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	90° × 73°
Minimum focus distance	20 mm (0.79 in.)
Focal length	4 mm (0.157 in.)
Spatial resolution (IFOV)	6.3 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	9 Hz
Focus	Automatic or manual (built in motor)
Zoom	1–8x continuous, digital, interpolating zooming on images

Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
Detector pitch	25 μm



FLIR A310pt 90° (9 Hz) NTSC

P/N: 60902-1105

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Website

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Customer support

<http://support.flir.com>

Detector data	
Detector time constant	Typical 12 ms

Measurement	
Object temperature range	<ul style="list-style-type: none"> -20 to +120°C (-4 to +248°F) 0 to +350°C (+32 to +662°F)
Accuracy	±4°C (±7.2°F) or ±4% of reading

Measurement analysis	
Spotmeter	10
Area	10 boxes with max./min./average/position (7 if FLIR Sensors Manager is used)
Isotherm	1 with above/below/interval
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global and individual object parameters

Alarm	
Alarm functions	6 automatic alarms on any selected measurement function, camera temperature

Set-up	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature (°C/°F)

Imaging and optical data (visual camera)	
Field of view (FOV)	57.8° (H) to 1.7° (H)
Focal length	3.4 mm (wide) to 122.4 mm (tele)
F-number	1.6 to 4.5
Focus	Automatic or manual (built in motor)
Optical Zoom	36x continuous
Electronic Zoom	12x continuous, digital, interpolating

Detector data (visual camera)	
Focal plane array (FPA)	1/4" Exview HAD CCD
Effective pixels	380,000

Technical specification (pan & tilt)	
Azimuth Range	Az velocity 360° continuous, 0.1 to 60°/sec max
Elevation Range	El velocity ± 45°, 0.1 to 30°/sec. max
Programmable presets	128
Automatic heaters	Clears window from ice. Switched on at +4°C (39°F). Switched off at +15°C (59°F).



FLIR A310pt 90° (9 Hz) NTSC

P/N: 60902-1105

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Website

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Customer support

<http://support.flir.com>

Ethernet	
Ethernet	Control, result and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	
Ethernet, video streaming	Two independent channels for each camera - MPEG-4, H.264, or M-JPEG
Ethernet, protocols	TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Composite video	
Video out	Composite video output, NTSC compatible
Video, standard	CVBS (SMPTE 170M NTSC)

Power system	
Power	24 VAC (21-30 VAC; 24 VAC: 215 VA max. with heater) or 24 VDC (21-30 VDC; 24 VDC: 195 W max. with heater).

Environmental data	
Operating temperature range	-25°C to +50°C (-13°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none">EN 61000-6-2 (Immunity)EN 61000-6-3 (Emission)FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 66 (IEC 60529)
Bump	5 g, 11 ms (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	18.1 kg (40.0 lb.)
Size (L x W x H)	460 x 467 x 326 mm (18.1 x 18.4 x 12.8 in.)
Base mounting	
Housing material	Aluminum

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">Pan & tilt with infrared camera including lens and visual cameraFLIR Sensors Manager download cardLens capPrinted documentationSmall accessories kit
Packaging, weight	
Packaging, size	671 x 564 x 464 mm (26.4 x 22.2 x 18.3 in.)
EAN-13	7332558008973



FLIR A310pt 90° (9 Hz) NTSC

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>**Shipping information**

UPC-12

845188009519

Country of origin

Sweden

Supplies & accessories:

- T130152; Special temperature range +200 to +1200 deg C
- 4119468; ADAPTER PLATE - PT-SERIES
- 223-0017-00; JOYSTICK ASSY, NEXUS CONSOLE
- 500-0461-00; PEDESTAL MOUNT ASSY - PT-SERIES
- 500-0509-00; POLE ADAPTER - PT-SERIES
- 4124857; POWER SUPPLY ASSY, 24VAC - PT-series
- 500-0460-00; WALL MOUNT ASSY - PT-SERIES
- 324-0010-00; Hard case - PT-SERIES
- 4130235; FLIR Sensors Manager, pro

P/N: 60901-1105

Revision

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The FLIR A310pt precision pan/tilt mechanism gives operators accurate pointing control while providing fully programmable scan patterns, radar slew-to-cue, and slew-to-alarm functionality.

Multi-sensor configurations also include a day/night 36x zoom color CCD camera on the same pan/tilt package.

Key features:

- Built-in extensive analysis functionality.
- Extensive alarm functionality, as a function of analysis and more.
- H.264, MPEG-4, and MJPEG streaming.
- Built-in web server.
- 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.).
- Composite video output.
- Precise pan/tilt mechanism.
- Daylight camera.
- IP66 rated.
- IP control: FLIR PT series cameras can be integrated into any existing TCP/IP network and controlled using a personal computer.
- Serial control interface, use Pelco D or Bosch commands over RS-232, RS-422, or RS-485 to remotely control the FLIR A310 pt.
- Multi-camera software: FLIR Sensors Manager allows users to manage and control a FLIR PT series camera in a TCP/IP network.

Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	90° × 73°
Minimum focus distance	20 mm (0.79 in.)
Focal length	4 mm (0.157 in.)
Spatial resolution (IFOV)	6.3 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	9 Hz
Focus	Automatic or manual (built in motor)
Zoom	1–8x continuous, digital, interpolating zooming on images

Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
Detector pitch	25 μm



FLIR A310pt 90° (9 Hz) PAL

P/N: 60901-1105

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Detector data	
Detector time constant	Typical 12 ms

Measurement	
Object temperature range	<ul style="list-style-type: none">-20 to +120°C (-4 to +248°F)0 to +350°C (+32 to +662°F)
Accuracy	±4°C (±7.2°F) or ±4% of reading

Measurement analysis	
Spotmeter	10
Area	10 boxes with max./min./average/position (7 if FLIR Sensors Manager is used)
Isotherm	1 with above/below/interval
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global and individual object parameters

Alarm	
Alarm functions	6 automatic alarms on any selected measurement function, camera temperature

Set-up	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature (°C/°F)

Imaging and optical data (visual camera)	
Field of view (FOV)	57.8° (H) to 1.7° (H)
Focal length	3.4 mm (wide) to 122.4 mm (tele)
F-number	1.6 to 4.5
Focus	Automatic or manual (built in motor)
Optical Zoom	36x continuous
Electronic Zoom	12x continuous, digital, interpolating

Detector data (visual camera)	
Focal plane array (FPA)	1/4" Exview HAD CCD
Effective pixels	380.000

Technical specification (pan & tilt)	
Azimuth Range	Az velocity 360° continuous, 0.1 to 60°/sec max
Elevation Range	El velocity ± 45°, 0.1 to 30°/sec. max
Programmable presets	128
Automatic heaters	Clears window from ice. Switched on at +4°C (39°F). Switched off at +15°C (59°F).



FLIR A310pt 90° (9 Hz) PAL

P/N: 60901-1105

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Website

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Customer support

<http://support.flir.com>

Ethernet	
Ethernet	Control, result and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	
Ethernet, video streaming	Two independent channels for each camera - MPEG-4, H.264, or M-JPEG
Ethernet, protocols	TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Composite video	
Video out	Composite video output, PAL compatible
Video, standard	CVBS (ITU-R-BT.470 PAL)

Power system	
Power	24 VAC (21-30 VAC; 24 VAC: 215 VA max. with heater) or 24 VDC (21-30 VDC; 24 VDC: 195 W max. with heater).

Environmental data	
Operating temperature range	-25°C to +50°C (-13°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none">EN 61000-6-2 (Immunity)EN 61000-6-3 (Emission)FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 66 (IEC 60529)
Bump	5 g, 11 ms (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	18.1 kg (40.0 lb.)
Size (L x W x H)	460 x 467 x 326 mm (18.1 x 18.4 x 12.8 in.)
Base mounting	
Housing material	Aluminum

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">Pan & tilt with infrared camera including lens and visual cameraFLIR Sensors Manager download cardLens capPrinted documentationSmall accessories kit
Packaging, weight	
Packaging, size	671 x 564 x 464 mm (26.4 x 22.2 x 18.3 in.)
EAN-13	7332558008980



FLIR A310pt 90° (9 Hz) PAL

P/N: 60901-1105

Revision

46411

Last modified

2017-11-16 16:46 UTC+1

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>**Shipping information**

UPC-12

845188009526

Country of origin

Sweden

Supplies & accessories:

- T130152; Special temperature range +200 to +1200 deg C
- 4119468; ADAPTER PLATE - PT-SERIES
- 223-0017-00; JOYSTICK ASSY, NEXUS CONSOLE
- 500-0461-00; PEDESTAL MOUNT ASSY - PT-SERIES
- 500-0509-00; POLE ADAPTER - PT-SERIES
- 4124857; POWER SUPPLY ASSY, 24VAC - PT-series
- 500-0460-00; WALL MOUNT ASSY - PT-SERIES
- 324-0010-00; Hard case - PT-SERIES
- 4130235; FLIR Sensors Manager, pro

P/N: 61002-1105

Revision

46412

Last modified

2017-11-16 16:47 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

The FLIR A310pt Pan & Tilt is an affordable solution for anyone who needs to solve problems that require built in "smartness" such as analysis and alarm functionality. The FLIR A310pt Pan & Tilt has all the necessary features and functions to build distributed single- or multi-camera solutions to cover large areas to monitor such as in coal pile monitoring and sub-station monitoring using standard Ethernet hardware and software protocols.

The FLIR A310pt precision pan/tilt mechanism gives operators accurate pointing control while providing fully programmable scan patterns, radar slew-to-cue, and slew-to-alarm functionality.

Multi-sensor configurations also include a day/night 36x zoom color CCD camera on the same pan/tilt package.

Key features:

- Built-in extensive analysis functionality.
- Extensive alarm functionality, as a function of analysis and more.
- H.264, MPEG-4, and MJPEG streaming.
- Built-in web server.
- 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.).
- Composite video output.
- Precise pan/tilt mechanism.
- Daylight camera.
- IP66 rated.
- IP control: FLIR PT series cameras can be integrated into any existing TCP/IP network and controlled using a personal computer.
- Serial control interface, use Pelco D or Bosch commands over RS-232, RS-422, or RS-485 to remotely control the FLIR A310 pt.
- Multi-camera software: FLIR Sensors Manager allows users to manage and control a FLIR PT series camera in a TCP/IP network.

Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	90° × 73°
Minimum focus distance	20 mm (0.79 in.)
Focal length	4 mm (0.157 in.)
Spatial resolution (IFOV)	6.3 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	30 Hz
Focus	Automatic or manual (built in motor)
Zoom	1–8x continuous, digital, interpolating zooming on images

Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
Detector pitch	25 μm



FLIR A310pt 90° NTSC

P/N: 61002-1105

Revision

46412

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Detector data	
Detector time constant	Typical 12 ms

Measurement	
Object temperature range	<ul style="list-style-type: none">-20 to +120°C (-4 to +248°F)0 to +350°C (+32 to +662°F)
Accuracy	±4°C (±7.2°F) or ±4% of reading

Measurement analysis	
Spotmeter	10
Area	10 boxes with max./min./average/position (7 if FLIR Sensors Manager is used)
Isotherm	1 with above/below/interval
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global and individual object parameters

Alarm	
Alarm functions	6 automatic alarms on any selected measurement function, camera temperature

Set-up	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature (°C/°F)

Imaging and optical data (visual camera)	
Field of view (FOV)	57.8° (H) to 1.7° (H)
Focal length	3.4 mm (wide) to 122.4 mm (tele)
F-number	1.6 to 4.5
Focus	Automatic or manual (built in motor)
Optical Zoom	36x continuous
Electronic Zoom	12x continuous, digital, interpolating

Detector data (visual camera)	
Focal plane array (FPA)	1/4" Exview HAD CCD
Effective pixels	380.000

Technical specification (pan & tilt)	
Azimuth Range	Az velocity 360° continuous, 0.1 to 60°/sec max
Elevation Range	El velocity ± 45°, 0.1 to 30°/sec. max
Programmable presets	128
Automatic heaters	Clears window from ice. Switched on at +4°C (39°F). Switched off at +15°C (59°F).



FLIR A310pt 90° NTSC

P/N: 61002-1105

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Website

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Customer support

<http://support.flir.com>

Ethernet	
Ethernet	Control, result and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	
Ethernet, video streaming	Two independent channels for each camera - MPEG-4, H.264, or M-JPEG
Ethernet, protocols	TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Composite video	
Video out	Composite video output, NTSC compatible
Video, standard	CVBS (SMPTE 170M NTSC)

Power system	
Power	24 VAC (21-30 VAC; 24 VAC: 215 VA max. with heater) or 24 VDC (21-30 VDC; 24 VDC: 195 W max. with heater).

Environmental data	
Operating temperature range	-25°C to +50°C (-13°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none">• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 66 (IEC 60529)
Bump	5 g, 11 ms (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	18.1 kg (40.0 lb.)
Size (L x W x H)	460 x 467 x 326 mm (18.1 x 18.4 x 12.8 in.)
Base mounting	
Housing material	Aluminum

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Pan & tilt with infrared camera including lens and visual camera• FLIR Sensors Manager download card• Lens cap• Printed documentation• Small accessories kit
Packaging, weight	
Packaging, size	671 x 564 x 464 mm (26.4 x 22.2 x 18.3 in.)
EAN-13	7332558008959



FLIR A310pt 90° NTSC

P/N: 61002-1105

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Shipping information

UPC-12

845188009496

Country of origin

Sweden

Supplies & accessories:

- T130152; Special temperature range +200 to +1200 deg C
- 4119468; ADAPTER PLATE - PT-SERIES
- 223-0017-00; JOYSTICK ASSY, NEXUS CONSOLE
- 500-0461-00; PEDESTAL MOUNT ASSY - PT-SERIES
- 500-0509-00; POLE ADAPTER - PT-SERIES
- 4124857; POWER SUPPLY ASSY, 24VAC - PT-series
- 500-0460-00; WALL MOUNT ASSY - PT-SERIES
- 324-0010-00; Hard case - PT-SERIES
- 4130235; FLIR Sensors Manager, pro

P/N: 61001-1105

Revision

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Website

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General description

The FLIR A310pt Pan & Tilt is an affordable solution for anyone who needs to solve problems that require built in “smartness” such as analysis and alarm functionality. The FLIR A310pt Pan & Tilt has all the necessary features and functions to build distributed single- or multi-camera solutions to cover large areas to monitor such as in coal pile monitoring and sub-station monitoring using standard Ethernet hardware and software protocols.

The FLIR A310pt precision pan/tilt mechanism gives operators accurate pointing control while providing fully programmable scan patterns, radar slew-to-cue, and slew-to-alarm functionality.

Multi-sensor configurations also include a day/night 36x zoom color CCD camera on the same pan/tilt package.

Key features:

- Built-in extensive analysis functionality.
- Extensive alarm functionality, as a function of analysis and more.
- H.264, MPEG-4, and MJPEG streaming.
- Built-in web server.
- 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.).
- Composite video output.
- Precise pan/tilt mechanism.
- Daylight camera.
- IP66 rated.
- IP control: FLIR PT series cameras can be integrated into any existing TCP/IP network and controlled using a personal computer.
- Serial control interface, use Pelco D or Bosch commands over RS-232, RS-422, or RS-485 to remotely control the FLIR A310 pt.
- Multi-camera software: FLIR Sensors Manager allows users to manage and control a FLIR PT series camera in a TCP/IP network.

Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	90° × 73°
Minimum focus distance	20 mm (0.79 in.)
Focal length	4 mm (0.157 in.)
Spatial resolution (IFOV)	6.3 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	30 Hz
Focus	Automatic or manual (built in motor)
Zoom	1–8x continuous, digital, interpolating zooming on images

Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
Detector pitch	25 μm



FLIR A310pt 90° PAL

P/N: 61001-1105

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Detector data	
Detector time constant	Typical 12 ms

Measurement	
Object temperature range	<ul style="list-style-type: none">-20 to +120°C (-4 to +248°F)0 to +350°C (+32 to +662°F)
Accuracy	±4°C (±7.2°F) or ±4% of reading

Measurement analysis	
Spotmeter	10
Area	10 boxes with max./min./average/position (7 if FLIR Sensors Manager is used)
Isotherm	1 with above/below/interval
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global and individual object parameters

Alarm	
Alarm functions	6 automatic alarms on any selected measurement function, camera temperature

Set-up	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature (°C/°F)

Imaging and optical data (visual camera)	
Field of view (FOV)	57.8° (H) to 1.7° (H)
Focal length	3.4 mm (wide) to 122.4 mm (tele)
F-number	1.6 to 4.5
Focus	Automatic or manual (built in motor)
Optical Zoom	36x continuous
Electronic Zoom	12x continuous, digital, interpolating

Detector data (visual camera)	
Focal plane array (FPA)	1/4" Exview HAD CCD
Effective pixels	380.000

Technical specification (pan & tilt)	
Azimuth Range	Az velocity 360° continuous, 0.1 to 60°/sec max
Elevation Range	El velocity ± 45°, 0.1 to 30°/sec. max
Programmable presets	128
Automatic heaters	Clears window from ice. Switched on at +4°C (39°F). Switched off at +15°C (59°F).



FLIR A310pt 90° PAL

P/N: 61001-1105

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Ethernet	
Ethernet	Control, result and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	
Ethernet, video streaming	Two independent channels for each camera - MPEG-4, H.264, or M-JPEG
Ethernet, protocols	TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Composite video	
Video out	Composite video output, PAL compatible
Video, standard	CVBS (ITU-R-BT.470 PAL)

Power system	
Power	24 VAC (21-30 VAC; 24 VAC: 215 VA max. with heater) or 24 VDC (21-30 VDC; 24 VDC: 195 W max. with heater).

Environmental data	
Operating temperature range	-25°C to +50°C (-13°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none">• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 66 (IEC 60529)
Bump	5 g, 11 ms (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	18.1 kg (40.0 lb.)
Size (L x W x H)	460 x 467 x 326 mm (18.1 x 18.4 x 12.8 in.)
Base mounting	
Housing material	Aluminum

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Pan & tilt with infrared camera including lens and visual camera• FLIR Sensors Manager download card• Lens cap• Printed documentation• Small accessories kit
Packaging, weight	
Packaging, size	671 x 564 x 464 mm (26.4 x 22.2 x 18.3 in.)
EAN-13	7332558008966



FLIR A310pt 90° PAL

P/N: 61001-1105

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Shipping information

UPC-12	845188009502
Country of origin	Sweden

Supplies & accessories:

- T130152; Special temperature range +200 to +1200 deg C
- 4119468; ADAPTER PLATE - PT-SERIES
- 223-0017-00; JOYSTICK ASSY, NEXUS CONSOLE
- 500-0461-00; PEDESTAL MOUNT ASSY - PT-SERIES
- 500-0509-00; POLE ADAPTER - PT-SERIES
- 4124857; POWER SUPPLY ASSY, 24VAC - PT-series
- 500-0460-00; WALL MOUNT ASSY - PT-SERIES
- 324-0010-00; Hard case - PT-SERIES
- 4130235; FLIR Sensors Manager, pro

FLIR A6xx series

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P/N: 55001-0101

Revision

35207

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

The FLIR A615 has features and functions that make it the natural choice for anyone who uses PC software to solve problems and needs 640 × 480 pixel resolution. Among its main features are GigE Vision and GenICam compliance, which makes it plug-and-play when used with software packages such as IMAQ Vision and Halcon.

The camera is equipped with a 15° lens.

Key features:

- Affordable.
- GigE compliant.
- GenICam compliant.
- Trigg/synchronization/GPIO.
- 16-bit 640 × 480 pixel images at 50 Hz, signal, temperature linear, and radiometric.
- Windowing mode: 640 × 240 pixels at 100 Hz or 640 × 120 pixels at 200 Hz.
- Compliant with any software that supports GenICam, including National Instruments IMAQ Vision and Stammers Common Vision Blox.
- Open and well-described TCP/IP protocol for control and set-up.

Typical applications:

- High-end infrared machine vision that needs temperature measurement.
- Slag detection.
- Food processing.
- Electronics testing.
- Power resistor testing.
- Automotive.

Imaging and optical data

IR resolution	640 × 480 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	15° × 11° (19° diagonal)
Minimum focus distance	0.50 m (1.64 ft.)
Focal length	41.3 mm (1.63 in.)
Spatial resolution (IFOV)	0.41 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	50 Hz (100/200 Hz with windowing)
Focus	Automatic or manual (built in motor)

Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm
Detector time constant	Typical 8 ms



FLIR A615 15°

P/N: 55001-0101

Revision

35207

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Measurement	
Object temperature range	<ul style="list-style-type: none"> -40°C to +150°C (-40°F to +302°F) 100 to +650°C (+212 to +1202°F) 300 to +2000°C (+572 to +3632°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading

Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

USB	
USB	<ul style="list-style-type: none"> Control and image
USB, standard	USB 2 HS
USB, connector type	<ul style="list-style-type: none"> USB Mini-B
USB, communication	TCP/IP socket-based FLIR proprietary
USB, image streaming	16-bit 640 × 480 pixels @ 25 Hz <ul style="list-style-type: none"> Signal linear Temperature linear Radiometric
USB, protocols	TCP, UDP, SNMP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary and GenICam protocol
Ethernet, image streaming	16-bit 640 × 480 pixels @ 50 Hz 16-bit 640 × 240 pixels @ 100 Hz 16-bit 640 × 120 pixels @ 200 Hz <ul style="list-style-type: none"> Signal linear Temperature linear Radiometric GigE Vision and GenICam compatible
Ethernet, protocols	TCP, UDP, SNMP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Digital input/output	
Digital input, purpose	Image tag (start, stop, general), Image flow control, (stream on/off), Input ext. device (programmatically read)
Digital input	2 opto-isolated, 0–1.5 V = low, 3–25 V = high
Digital output, purpose	Output to ext. device (programmatically set)



FLIR A615 15°

P/N: 55001-0101

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Digital input/output	
Digital output	2 opto-isolated, ON = supply (max. 100 mA), OFF = open
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	6–24 VDC, max. 200 mA
Digital I/O, connector type	6-pole jackable screw terminal

Power system	
External power operation	12/24 VDC, 24 W absolute max.
External power, connector type	2-pole jackable screw terminal
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none">• EN 61000-6-2:2001 (Immunity)• EN 61000-6-3:2001 (Emission)• FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 30 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	0.92 kg (2.03 lb.)
Camera size (L × W × H)	222× 73 × 75 mm (8.7 × 2.9 × 3.0 in.)
Camera size, excl. lens (L × W × H)	203× 73 × 75 mm (8.0 × 2.9 × 3.0 in.)
Tripod mounting	UNC ¼"-20 (on three sides)
Base mounting	2 × M4 thread mounting holes (on three sides)
Housing material	Aluminum
Comments to physical data	Outline dimensional drawings and STEP files can be found at http://support.flir.com

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Ethernet cable• Mains cable• Power cable, pig-tailed• Power supply• Printed documentation• USB cable• Utility CD-ROM
Packaging, weight	
Packaging, size	360 × 180 × 550 mm (14.2 × 7.1 × 21.7 in.)
EAN-13	7332558003244
UPC-12	845188002725
Country of origin	Sweden

Supplies & accessories:

P/N: 55001-0101

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198065; IR lens, f=6.5 mm (80°) with case
- T198165; IR lens, f=88.9 mm (7°) with case and support for A6xx/A6xxsc
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- 1910400; Power cord EU
- 1910402; Power cord UK
- 1910401; Power cord US
- T911803; Power supply, 24 VDC, 2 A, 50 W
- T910922; Power supply, incl. multi plugs, for A3xx, A3xxsc, A6xx and A6xxsc
- 1910423; USB cable Std A <-> Mini-B
- T951004ACC; Ethernet cable CAT6, 2 m/6.6 ft.
- 1910586ACC; Power cable, pigtailed
- T197871ACC; Hard transport case for A3xx/A6xx series
- T197870ACC; Cardboard box for A3xx/A6xx series
- T126889ACC; Filter holder for A6xx lenses
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

P/N: 55001-0102

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

The FLIR A615 has features and functions that make it the natural choice for anyone who uses PC software to solve problems and needs 640 × 480 pixel resolution. Among its main features are GigE Vision and GenICam compliance, which makes it plug-and-play when used with software packages such as IMAQ Vision and Halcon.

The camera is equipped with the standard 25° lens.

Key features:

- Affordable.
- GigE compliant.
- GenICam compliant.
- Trigg/synchronization/GPIO.
- 16-bit 640 × 480 pixel images at 50 Hz, signal, temperature linear, and radiometric.
- Windowing mode: 640 × 240 pixels at 100 Hz or 640 × 120 pixels at 200 Hz.
- Compliant with any software that supports GenICam, including National Instruments IMAQ Vision and Stemmers Common Vision Blox.
- Open and well-described TCP/IP protocol for control and set-up.

Typical applications:

- High-end infrared machine vision that requires temperature measurement
- Slag detection
- Food processing
- Electronics testing
- Power resistor testing
- Automotive

Imaging and optical data

IR resolution	640 × 480 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	25° × 19° (31° diagonal)
Minimum focus distance	0.25 m (0.82 ft.)
Focal length	24.6 mm (0.97 in.)
Spatial resolution (IFOV)	0.68 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	50 Hz (100/200 Hz with windowing)
Focus	Automatic or manual (built in motor)

Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm
Detector time constant	Typical 8 ms



FLIR A615 25°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Measurement	
Object temperature range	<ul style="list-style-type: none"> -40°C to +150°C (-40°F to +302°F) 100 to +650°C (+212 to +1202°F) 300 to +2000°C (+572 to +3632°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading

Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

USB	
USB	<ul style="list-style-type: none"> Control and image
USB, standard	USB 2 HS
USB, connector type	<ul style="list-style-type: none"> USB Mini-B
USB, communication	TCP/IP socket-based FLIR proprietary
USB, image streaming	16-bit 640 × 480 pixels @ 25 Hz <ul style="list-style-type: none"> Signal linear Temperature linear Radiometric
USB, protocols	TCP, UDP, SNMP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary and GenICam protocol
Ethernet, image streaming	16-bit 640 × 480 pixels @ 50 Hz 16-bit 640 × 240 pixels @ 100 Hz 16-bit 640 × 120 pixels @ 200 Hz <ul style="list-style-type: none"> Signal linear Temperature linear Radiometric GigE Vision and GenICam compatible
Ethernet, protocols	TCP, UDP, SNMP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Digital input/output	
Digital input, purpose	Image tag (start, stop, general), Image flow control, (stream on/off), Input ext. device (programmatically read)
Digital input	2 opto-isolated, 0–1.5 V = low, 3–25 V = high
Digital output, purpose	Output to ext. device (programmatically set)



FLIR A615 25°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Digital input/output	
Digital output	2 opto-isolated, ON = supply (max. 100 mA), OFF = open
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	6–24 VDC, max. 200 mA
Digital I/O, connector type	6-pole jackable screw terminal

Power system	
External power operation	12/24 VDC, 24 W absolute max.
External power, connector type	2-pole jackable screw terminal
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none">• EN 61000-6-2:2001 (Immunity)• EN 61000-6-3:2001 (Emission)• FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 30 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	0.90 kg (1.98 lb.)
Camera size (L × W × H)	216 × 73 × 75 mm (8.5 × 2.9 × 3.0 in.)
Camera size, excl. lens (L × W × H)	203 × 73 × 75 mm (8.0 × 2.9 × 3.0 in.)
Tripod mounting	UNC ¼"-20 (on three sides)
Base mounting	2 × M4 thread mounting holes (on three sides)
Housing material	Aluminum
Comments to physical data	Outline dimensional drawings and STEP files can be found at http://support.flir.com

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Ethernet cable• Mains cable• Power cable, pig-tailed• Power supply• Printed• Printed documentation• USB cable• Utility CD-ROM
Packaging, weight	
Packaging, size	360 × 180 × 550 mm (14.2 × 7.1 × 21.7 in.)
EAN-13	7332558003251
UPC-12	845188002732
Country of origin	Sweden

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Supplies & accessories:

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50 μm) with case
- T198060; Close-up IR lens, 5.8× (100 μm) with case
- T198065; IR lens, f=6.5 mm (80°) with case
- T198165; IR lens, f=88.9 mm (7°) with case and support for A6xx/A6xxsc
- T198066; Close-up IR lens, 1.5× (25 μm) with case
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- 1910400; Power cord EU
- 1910402; Power cord UK
- 1910401; Power cord US
- T911803; Power supply, 24 VDC, 2 A, 50 W
- T910922; Power supply, incl. multi plugs, for A3xx, A3xxsc, A6xx and A6xxsc
- 1910423; USB cable Std A <-> Mini-B
- T951004ACC; Ethernet cable CAT6, 2 m/6.6 ft.
- 1910586ACC; Power cable, pigtailed
- T197871ACC; Hard transport case for A3xx/A6xx series
- T197870ACC; Cardboard box for A3xx/A6xx series
- T126889ACC; Filter holder for A6xx lenses
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

The FLIR A615 has features and functions that make it the natural choice for anyone who uses PC software to solve problems and needs 640 × 480 pixel resolution. Among its main features are GigE Vision and GenICam compliance, which makes it plug-and-play when used with software packages such as IMAQ Vision and Halcon.

The camera is equipped with a 45° lens.

Key features:

- Affordable.
- GigE compliant.
- GenICam compliant.
- Trigg/synchronization/GPIO.
- 16-bit 640 × 480 pixel images at 50 Hz, signal, temperature linear, and radiometric.
- Windowing mode: 640 × 240 pixels at 100 Hz or 640 × 120 pixels at 200 Hz.
- Compliant with any software that supports GenICam, including National Instruments IMAQ Vision and Stemmers Common Vision Blox.
- Open and well-described TCP/IP protocol for control and set-up.

Typical applications:

- High-end infrared machine vision that requires temperature measurement.
- Slag detection.
- Food processing.
- Electronics testing.
- Power resistor testing.
- Automotive.

Imaging and optical data

IR resolution	640 × 480 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	45° × 34° (55° diagonal)
Minimum focus distance	0.15 m (0.49 ft.)
Focal length	13.1 mm (0.52 in.)
Spatial resolution (IFOV)	1.23 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	50 Hz (100/200 Hz with windowing)
Focus	Automatic or manual (built in motor)

Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm
Detector time constant	Typical 8 ms



FLIR A615 45°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Measurement	
Object temperature range	<ul style="list-style-type: none"> -40°C to +150°C (-40°F to +302°F) 100 to +650°C (+212 to +1202°F) 300 to +2000°C (+572 to +3632°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading

Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

USB	
USB	<ul style="list-style-type: none"> Control and image
USB, standard	USB 2 HS
USB, connector type	<ul style="list-style-type: none"> USB Mini-B
USB, communication	TCP/IP socket-based FLIR proprietary
USB, image streaming	16-bit 640 × 480 pixels @ 25 Hz <ul style="list-style-type: none"> Signal linear Temperature linear Radiometric
USB, protocols	TCP, UDP, SNMP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary and GenICam protocol
Ethernet, image streaming	16-bit 640 × 480 pixels @ 50 Hz 16-bit 640 × 240 pixels @ 100 Hz 16-bit 640 × 120 pixels @ 200 Hz <ul style="list-style-type: none"> Signal linear Temperature linear Radiometric GigE Vision and GenICam compatible
Ethernet, protocols	TCP, UDP, SNMP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Digital input/output	
Digital input, purpose	Image tag (start, stop, general), Image flow control, (stream on/off), Input ext. device (programmatically read)
Digital input	2 opto-isolated, 0–1.5 V = low, 3–25 V = high
Digital output, purpose	Output to ext. device (programmatically set)



FLIR A615 45°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Digital input/output	
Digital output	2 opto-isolated, ON = supply (max. 100 mA), OFF = open
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	6–24 VDC, max. 200 mA
Digital I/O, connector type	6-pole jackable screw terminal

Power system	
External power operation	12/24 VDC, 24 W absolute max.
External power, connector type	2-pole jackable screw terminal
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none">• EN 61000-6-2:2001 (Immunity)• EN 61000-6-3:2001 (Emission)• FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 30 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	0.94 kg (2.07 lb.)
Camera size (L × W × H)	225 × 73 × 75 mm (8.8 × 2.9 × 3.0 in.)
Camera size, excl. lens (L × W × H)	203 × 73 × 75 mm (8.0 × 2.9 × 3.0 in.)
Tripod mounting	UNC ¼"-20 (on three sides)
Base mounting	2 × M4 thread mounting holes (on three sides)
Housing material	Aluminum
Comments to physical data	Outline dimensional drawings and STEP files can be found at http://support.flir.com

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Ethernet cable• Mains cable• Power cable, pig-tailed• Power supply• Printed documentation• USB cable• Utility CD-ROM
Packaging, weight	
Packaging, size	360 × 180 × 550 mm (14.2 × 7.1 × 21.7 in.)
EAN-13	7332558003268
UPC-12	845188002749
Country of origin	Sweden

Supplies & accessories:

P/N: 55001-0103

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198065; IR lens, f=6.5 mm (80°) with case
- T198165; IR lens, f=88.9 mm (7°) with case and support for A6xx/A6xxsc
- T198066; Close-up IR lens, 1.5× (25 µm) with case
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- 1910400; Power cord EU
- 1910402; Power cord UK
- 1910401; Power cord US
- T911803; Power supply, 24 VDC, 2 A, 50 W
- T910922; Power supply, incl. multi plugs, for A3xx, A3xxsc, A6xx and A6xxsc
- 1910423; USB cable Std A <-> Mini-B
- T951004ACC; Ethernet cable CAT6, 2 m/6.6 ft.
- 1910586ACC; Power cable, pigtailed
- T197871ACC; Hard transport case for A3xx/A6xx series
- T197870ACC; Cardboard box for A3xx/A6xx series
- T126889ACC; Filter holder for A6xx lenses
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

The FLIR A615 has features and functions that make it the natural choice for anyone who uses PC software to solve problems and needs 640 × 480 pixel resolution. Among its main features are GigE Vision and GenICam compliance, which makes it plug-and-play when used with software packages such as IMAQ Vision and Halcon.

The camera is equipped with a 7° lens.

Key features:

- Affordable.
- GigE compliant.
- GenICam compliant.
- Trigg/synchronization/GPIO.
- 16-bit 640 × 480 pixel images at 50 Hz, signal, temperature linear, and radiometric.
- Windowing mode: 640 × 240 pixels at 100 Hz or 640 × 120 pixels at 200 Hz.
- Compliant with any software that supports GenICam, including National Instruments IMAQ Vision and Stemmers Common Vision Blox.
- Open and well-described TCP/IP protocol for control and set-up.

Typical applications:

- High-end infrared machine vision that requires temperature measurement.
- Slag detection.
- Food processing.
- Electronics testing.
- Power resistor testing.
- Automotive.

Imaging and optical data

IR resolution	640 × 480 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	7° × 5.3° (8.7° diagonally)
Minimum focus distance	2.0 m (6.6 ft.)
Focal length	88.9 mm (3.5 in.)
Spatial resolution (IFOV)	0.19 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	50 Hz (100/200 Hz with windowing)
Focus	Automatic or manual (built in motor)

Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm
Detector time constant	Typical 8 ms



FLIR A615 7°

P/N: 55001-0104

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Measurement	
Object temperature range	<ul style="list-style-type: none"> -40°C to +150°C (-40°F to +302°F) 100 to +650°C (+212 to +1202°F) 300 to +2000°C (+572 to +3632°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading

Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

USB	
USB	<ul style="list-style-type: none"> Control and image
USB, standard	USB 2 HS
USB, connector type	<ul style="list-style-type: none"> USB Mini-B
USB, communication	TCP/IP socket-based FLIR proprietary
USB, image streaming	16-bit 640 × 480 pixels @ 25 Hz <ul style="list-style-type: none"> Signal linear Temperature linear Radiometric
USB, protocols	TCP, UDP, SNMP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary and GenICam protocol
Ethernet, image streaming	16-bit 640 × 480 pixels @ 50 Hz 16-bit 640 × 240 pixels @ 100 Hz 16-bit 640 × 120 pixels @ 200 Hz <ul style="list-style-type: none"> Signal linear Temperature linear Radiometric GigE Vision and GenICam compatible
Ethernet, protocols	TCP, UDP, SNMP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Digital input/output	
Digital input, purpose	Image tag (start, stop, general), Image flow control, (stream on/off), Input ext. device (programmatically read)
Digital input	2 opto-isolated, 0–1.5 V = low, 3–25 V = high
Digital output, purpose	Output to ext. device (programmatically set)



FLIR A615 7°

P/N: 55001-0104

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Digital input/output	
Digital output	2 opto-isolated, ON = supply (max. 100 mA), OFF = open
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	6–24 VDC, max. 200 mA
Digital I/O, connector type	6-pole jackable screw terminal

Power system	
External power operation	12/24 VDC, 24 W absolute max.
External power, connector type	2-pole jackable screw terminal
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none">• EN 61000-6-2:2001 (Immunity)• EN 61000-6-3:2001 (Emission)• FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 30 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	1.61 kg (3.55 lb.)
Camera size (L × W × H)	271 × 126 × 128 mm (10.7 × 5.0 × 5.0 in.)
Camera size, excl. lens (L × W × H)	203 × 73 × 75 mm (8.0 × 2.9 × 3.0 in.)
Tripod mounting	UNC ¼"-20 (on three sides)
Base mounting	2 × M4 thread mounting holes (on three sides)
Housing material	Aluminum
Comments to physical data	Outline dimensional drawings and STEP files can be found at http://support.flir.com

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Ethernet cable• Mains cable• Power cable, pig-tailed• Power supply• Printed documentation• USB cable• Utility CD-ROM
Packaging, weight	5.8 kg (12.8 lb.)
Packaging, size	400 × 400 × 540 mm (15.7 × 15.7 × 21.3 in.)
EAN-13	7332558004685
UPC-12	845188004620
Country of origin	Sweden

Supplies & accessories:

P/N: 55001-0104

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Website

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Customer support

<http://support.flir.com>

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198065; IR lens, f=6.5 mm (80°) with case
- T198165; IR lens, f=88.9 mm (7°) with case and support for A6xx/A6xxsc
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- 1910400; Power cord EU
- 1910402; Power cord UK
- 1910401; Power cord US
- T911803; Power supply, 24 VDC, 2 A, 50 W
- T910922; Power supply, incl. multi plugs, for A3xx, A3xxsc, A6xx and A6xxsc
- 1910423; USB cable Std A <-> Mini-B
- T951004ACC; Ethernet cable CAT6, 2 m/6.6 ft.
- 1910586ACC; Power cable, pigtailed
- T197871ACC; Hard transport case for A3xx/A6xx series
- T197870ACC; Cardboard box for A3xx/A6xx series
- T126889ACC; Filter holder for A6xx lenses
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

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Website

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Customer support

<http://support.flir.com>



General description

The FLIR A615 has features and functions that make it the natural choice for anyone who uses PC software to solve problems and needs 640 × 480 pixel resolution. Among its main features are GigE Vision and GenICam compliance, which makes it plug-and-play when used with software packages such as IMAQ Vision and Halcon.

The camera is equipped with a 80° lens.

Key features:

- Affordable.
- GigE compliant.
- GenICam compliant.
- Trigg/synchronization/GPIO.
- 16-bit 640 × 480 pixel images at 50 Hz, signal, temperature linear, and radiometric.
- Windowing mode: 640 × 240 pixels at 100 Hz or 640 × 120 pixels at 200 Hz.
- Compliant with any software that supports GenICam, including National Instruments IMAQ Vision and Stemmers Common Vision Blox.
- Open and well-described TCP/IP protocol for control and set-up.

Typical applications:

- High-end infrared machine vision that requires temperature measurement.
- Slag detection.
- Food processing.
- Electronics testing.
- Power resistor testing.
- Automotive.

Imaging and optical data

IR resolution	640 × 480 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	80° × 64.4° (92.8° diagonal)
Minimum focus distance	65 mm (2.6 in.)
Focal length	6.5 mm (0.26 in.)
Spatial resolution (IFOV)	2.62 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	50 Hz (100/200 Hz with windowing)
Focus	Automatic or manual (built in motor)

Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm
Detector time constant	Typical 8 ms



FLIR A615 windowing 80°

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Website

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Customer support

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Measurement	
Object temperature range	<ul style="list-style-type: none"> -40°C to +150°C (-40°F to +302°F) 100 to +650°C (+212 to +1202°F) 300 to +2000°C (+572 to +3632°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading

Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

USB	
USB	<ul style="list-style-type: none"> Control and image
USB, standard	USB 2 HS
USB, connector type	<ul style="list-style-type: none"> USB Mini-B
USB, communication	TCP/IP socket-based FLIR proprietary
USB, image streaming	16-bit 640 × 480 pixels @ 25 Hz <ul style="list-style-type: none"> Signal linear Temperature linear Radiometric
USB, protocols	TCP, UDP, SNMP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary and GenICam protocol
Ethernet, image streaming	16-bit 640 × 480 pixels @ 50 Hz 16-bit 640 × 240 pixels @ 100 Hz 16-bit 640 × 120 pixels @ 200 Hz <ul style="list-style-type: none"> Signal linear Temperature linear Radiometric GigE Vision and GenICam compatible
Ethernet, protocols	TCP, UDP, SNMP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Digital input/output	
Digital input, purpose	Image tag (start, stop, general), Image flow control, (stream on/off), Input ext. device (programmatically read)
Digital input	2 opto-isolated, 0–1.5 V = low, 3–25 V = high
Digital output, purpose	Output to ext. device (programmatically set)



FLIR A615 windowing 80°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Digital input/output	
Digital output	2 opto-isolated, ON = supply (max. 100 mA), OFF = open
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	6–24 VDC, max. 200 mA
Digital I/O, connector type	6-pole jackable screw terminal

Power system	
External power operation	12/24 VDC, 24 W absolute max.
External power, connector type	2-pole jackable screw terminal
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none">• EN 61000-6-2:2001 (Immunity)• EN 61000-6-3:2001 (Emission)• FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 30 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	1.17 kg (2.58 lb.)
Camera size (L × W × H)	297 × 73 × 75 mm (11.7 × 2.9 × 3.0 in.)
Camera size, excl. lens (L × W × H)	203 × 73 × 75 mm (8.0 × 2.9 × 3.0 in.)
Tripod mounting	UNC ¼"-20 (on three sides)
Base mounting	2 × M4 thread mounting holes (on three sides)
Housing material	Aluminum
Comments to physical data	Outline dimensional drawings and STEP files can be found at http://support.flir.com

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Ethernet cable• Mains cable• Power cable, pig-tailed• Printed documentation• USB cable• Utility CD-ROM
Packaging, weight	3.8 kg (8.4 lb.)
Packaging, size	370 × 190 × 630 mm (14.6 × 7.5 × 24.8 in.)
EAN-13	7332558004760
UPC-12	845188004712
Country of origin	Sweden

Supplies & accessories:

- T197914; IR lens, f=41.3 mm (15°) with case



FLIR A615 windowing 80°

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- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198065; IR lens, f=6.5 mm (80°) with case
- T198165; IR lens, f=88.9 mm (7°) with case and support for A6xx/A6xxsc
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- 1910400; Power cord EU
- 1910402; Power cord UK
- 1910401; Power cord US
- T911803; Power supply, 24 VDC, 2 A, 50 W
- T910922; Power supply, incl. multi plugs, for A3xx, A3xxsc, A6xx and A6xxsc
- 1910423; USB cable Std A <-> Mini-B
- T951004ACC; Ethernet cable CAT6, 2 m/6.6 ft.
- 1910586ACC; Power cable, pigtailed
- T197871ACC; Hard transport case for A3xx/A6xx series
- T197870ACC; Cardboard box for A3xx/A6xx series
- T126889ACC; Filter holder for A6xx lenses
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

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Website

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Customer support

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General description	
<p>The FLIR A655sc is an excellent choice for those working in R&D but don't need the highest frame rates but do require 640 × 480 pixel resolution. When using the camera in R&D, it is highly recommended to use the FLIR ResearchIR software from FLIR Systems.</p> <p>The camera is equipped with a 15° lens.</p>	
Key features:	
<ul style="list-style-type: none"> • Affordable. • 16-bit 640 × 480 pixel images at 25 Hz. • Start recording in FLIR ResearchIR using digital input. • Windowing mode: 640 × 240 pixels at 100 Hz or 640 × 120 pixels at 200 Hz. 	
Typical applications:	
<ul style="list-style-type: none"> • Mid- or high-end industrial R&D. 	

Imaging and optical data	
IR resolution	640 × 480 pixels
Thermal sensitivity/NETD	< 0.03°C @ +30°C (+86°F) / 30 mK
Field of view (FOV)	15° × 11° (19° diagonal)
Minimum focus distance	0.50 m (1.64 ft.)
Focal length	41.3 mm (1.63 in.)
Spatial resolution (IFOV)	0.41 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	50 Hz (100/200 Hz with windowing)
Focus	Automatic or manual (built in motor)

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm
Detector time constant	Typical 8 ms

Measurement	
Object temperature range	<ul style="list-style-type: none"> • -40°C to +150°C (-40°F to +302°F) • 100 to +650°C (+212 to +1202°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading

Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors



FLIR A655sc 15°

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Website

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Customer support

<http://support.flir.com>

Measurement analysis	
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

USB	
USB	<ul style="list-style-type: none"> Control and image
USB, standard	USB 2 HS
USB, connector type	<ul style="list-style-type: none"> USB Mini-B
USB, communication	TCP/IP socket-based FLIR proprietary
USB, image streaming	16-bit 640 × 480 pixels @ 25 Hz <ul style="list-style-type: none"> Signal linear Temperature linear Radiometric
USB, protocols	TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary and GenICam protocol
Ethernet, image streaming	16-bit 640 × 480 pixels @ 50 Hz 16-bit 640 × 240 pixels @ 100 Hz 16-bit 640 × 120 pixels @ 200 Hz <ul style="list-style-type: none"> Signal linear Temperature linear Radiometric GigE Vision and GenICam compatible
Ethernet, protocols	TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Digital input/output	
Digital input, purpose	Image tag (start, stop, general), Image flow control, (stream on/off), Input ext. device (programmatically read)
Digital input	2 opto-isolated, 0–1.5 V = low, 3–25 V = high
Digital output, purpose	Output to ext. device (programmatically set)
Digital output	2 opto-isolated, ON = supply (max. 100 mA), OFF = open
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	6–24 VDC, max. 200 mA
Digital I/O, connector type	6-pole jackable screw terminal

Power system	
External power operation	12/24 VDC, 24 W absolute max.



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Power system	
External power, connector type	2-pole jackable screw terminal
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> EN 61000-6-2:2001 (Immunity) EN 61000-6-3:2001 (Emission) FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 30 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	0.92 kg (2.03 lb.)
Camera size (L × W × H)	222× 73 × 75 mm (8.7 × 2.9 × 3.0 in.)
Camera size, excl. lens (L × W × H)	203× 73 × 75 mm (8.0 × 2.9 × 3.0 in.)
Tripod mounting	UNC ¼"-20 (on three sides)
Base mounting	2 × M4 thread mounting holes (on three sides)
Housing material	Aluminum
Comments to physical data	Outline dimensional drawings and STEP files can be found at http://support.flir.com

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> Infrared camera with lens Ethernet cable FLIR ResearchIR Max 4 (licence only) Hard transport case Mains cable Power cable, pig-tailed Power supply Printed documentation USB cable
Packaging, weight	
Packaging, size	360 × 180 × 550 mm (14.2 × 7.1 × 21.7 in.)
EAN-13	7332558003305
UPC-12	845188002787
Country of origin	Sweden

Supplies & accessories:

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198065; IR lens, f=6.5 mm (80°) with case
- T198165; IR lens, f=88.9 mm (7°) with case and support for A6xx/A6xxsc
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- 1910400; Power cord EU
- 1910402; Power cord UK
- 1910401; Power cord US
- T911803; Power supply, 24 VDC, 2 A, 50 W
- T910922; Power supply, incl. multi plugs, for A3xx, A3xxsc, A6xx and A6xxsc
- 1910423; USB cable Std A <-> Mini-B
- T951004ACC; Ethernet cable CAT6, 2 m/6.6 ft.



FLIR A655sc 15°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 1910586ACC; Power cable, pigtailed
- T197871ACC; Hard transport case for A3xx/A6xx series
- T197870ACC; Cardboard box for A3xx/A6xx series
- T126889ACC; Filter holder for A6xx lenses
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

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Customer support

<http://support.flir.com>



General description	
<p>The FLIR A655sc is an excellent choice for those working in R&D and require the highest frame rates and 640 × 480 pixel resolution. When using the camera in R&D, it is highly recommended to use the FLIR ResearchIR software from FLIR Systems.</p> <p>The camera is equipped with the standard 25° lens.</p>	
Key features:	
<ul style="list-style-type: none"> Affordable. 16-bit 640 × 480 pixel images at 50 Hz. Start recording in FLIR ResearchIR using digital input. Windowing mode: 640 × 240 pixels at 100 Hz or 640 × 120 pixels at 200 Hz. 	
Typical applications:	
<ul style="list-style-type: none"> Mid- or high-end industrial R&D. 	
Imaging and optical data	
IR resolution	640 × 480 pixels
Thermal sensitivity/NETD	< 0.03°C @ +30°C (+86°F) / 30 mK
Field of view (FOV)	25° × 19° (31° diagonal)
Minimum focus distance	0.25 m (0.82 ft.)
Focal length	24.6 mm (0.97 in.)
Spatial resolution (IFOV)	0.68 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	50 Hz (100/200 Hz with windowing)
Focus	Automatic or manual (built in motor)
Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm
Detector time constant	Typical 8 ms
Measurement	
Object temperature range	<ul style="list-style-type: none"> -40°C to +150°C (-40°F to +302°F) 100 to +650°C (+212 to +1202°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading
Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors



FLIR A655sc 25°

P/N: 55001-0302

Revision

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Measurement analysis	
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

USB	
USB	<ul style="list-style-type: none"> Control and image
USB, standard	USB 2 HS
USB, connector type	<ul style="list-style-type: none"> USB Mini-B
USB, communication	TCP/IP socket-based FLIR proprietary
USB, image streaming	16-bit 640 × 480 pixels @ 25 Hz <ul style="list-style-type: none"> Signal linear Temperature linear Radiometric
USB, protocols	TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary and GenICam protocol
Ethernet, image streaming	16-bit 640 × 480 pixels @ 50 Hz 16-bit 640 × 240 pixels @ 100 Hz 16-bit 640 × 120 pixels @ 200 Hz <ul style="list-style-type: none"> Signal linear Temperature linear Radiometric GigE Vision and GenICam compatible
Ethernet, protocols	TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Digital input/output	
Digital input, purpose	Image tag (start, stop, general), Image flow control, (stream on/off), Input ext. device (programmatically read)
Digital input	2 opto-isolated, 0–1.5 V = low, 3–25 V = high
Digital output, purpose	Output to ext. device (programmatically set)
Digital output	2 opto-isolated, ON = supply (max. 100 mA), OFF = open
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	6–24 VDC, max. 200 mA
Digital I/O, connector type	6-pole jackable screw terminal

Power system	
External power operation	12/24 VDC, 24 W absolute max.



FLIR A655sc 25°

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Power system	
External power, connector type	2-pole jackable screw terminal
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none">EN 61000-6-2:2001 (Immunity)EN 61000-6-3:2001 (Emission)FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 30 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	0.90 kg (1.98 lb.)
Camera size (L × W × H)	216 × 73 × 75 mm (8.5 × 2.9 × 3.0 in.)
Camera size, excl. lens (L × W × H)	203 × 73 × 75 mm (8.0 × 2.9 × 3.0 in.)
Tripod mounting	UNC ¼"-20 (on three sides)
Base mounting	2 × M4 thread mounting holes (on three sides)
Housing material	Aluminum
Comments to physical data	Outline dimensional drawings and STEP files can be found at http://support.flir.com

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">Infrared camera with lensEthernet cableFLIR ResearchIR Max 4 (licence only)Hard transport caseMains cablePower cable, pig-tailedPower supplyPrinted documentationUSB cable
Packaging, weight	5.4 kg (11.9 lb.)
Packaging, size	360 × 180 × 550 mm (14.2 × 7.1 × 21.7 in.)
EAN-13	7332558003312
UPC-12	845188002794
Country of origin	Sweden

Supplies & accessories:

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50 µm) with case
- T198060; Close-up IR lens, 5.8× (100 µm) with case
- T198065; IR lens, f=6.5 mm (80°) with case
- T198165; IR lens, f=88.9 mm (7°) with case and support for A6xx/A6xxsc
- T198066; Close-up IR lens, 1.5× (25 µm) with case
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- 1910400; Power cord EU
- 1910402; Power cord UK
- 1910401; Power cord US
- T911803; Power supply, 24 VDC, 2 A, 50 W



FLIR A655sc 25°

P/N: 55001-0302

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- T910922; Power supply, incl. multi plugs, for A3xx, A3xxsc, A6xx and A6xxsc
- 1910423; USB cable Std A <-> Mini-B
- T951004ACC; Ethernet cable CAT6, 2 m/6.6 ft.
- 1910586ACC; Power cable, pigtailed
- T197871ACC; Hard transport case for A3xx/A6xx series
- T197870ACC; Cardboard box for A3xx/A6xx series
- T126889ACC; Filter holder for A6xx lenses
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

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Website

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General description	
The FLIR A655sc is an excellent choice for those working in R&D and require the highest frame rates and 640 × 480 pixel resolution. When using the camera in R&D, it is highly recommended to use the FLIR ResearchIR software from FLIR Systems.	
The camera is equipped with a 45° lens.	
Key features:	
<ul style="list-style-type: none"> Affordable. 16-bit 640 × 480 pixel images at 50 Hz. Start recording in FLIR ResearchIR using digital input. Windowing mode: 640 × 240 pixels at 100 Hz or 640 × 120 pixels at 200 Hz. 	
Typical applications:	
<ul style="list-style-type: none"> Mid- or high-end industrial R&D. 	

Imaging and optical data	
IR resolution	640 × 480 pixels
Thermal sensitivity/NETD	< 0.03°C @ +30°C (+86°F) / 30 mK
Field of view (FOV)	45° × 34° (55° diagonal)
Minimum focus distance	0.15 m (0.49 ft.)
Focal length	13.1 mm (0.52 in.)
Spatial resolution (IFOV)	1.23 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	50 Hz (100/200 Hz with windowing)
Focus	Automatic or manual (built in motor)

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm
Detector time constant	Typical 8 ms

Measurement	
Object temperature range	<ul style="list-style-type: none"> -40°C to +150°C (-40°F to +302°F) 100 to +650°C (+212 to +1202°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading

Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors



FLIR A655sc 45°

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Measurement analysis	
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

USB	
USB	<ul style="list-style-type: none"> Control and image
USB, standard	USB 2 HS
USB, connector type	<ul style="list-style-type: none"> USB Mini-B
USB, communication	TCP/IP socket-based FLIR proprietary
USB, image streaming	16-bit 640 × 480 pixels @ 25 Hz <ul style="list-style-type: none"> Signal linear Temperature linear Radiometric
USB, protocols	TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary and GenICam protocol
Ethernet, image streaming	16-bit 640 × 480 pixels @ 50 Hz 16-bit 640 × 240 pixels @ 100 Hz 16-bit 640 × 120 pixels @ 200 Hz <ul style="list-style-type: none"> Signal linear Temperature linear Radiometric GigE Vision and GenICam compatible
Ethernet, protocols	TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Digital input/output	
Digital input, purpose	Image tag (start, stop, general), Image flow control, (stream on/off), Input ext. device (programmatically read)
Digital input	2 opto-isolated, 0–1.5 V = low, 3–25 V = high
Digital output, purpose	Output to ext. device (programmatically set)
Digital output	2 opto-isolated, ON = supply (max. 100 mA), OFF = open
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	6–24 VDC, max. 200 mA
Digital I/O, connector type	6-pole jackable screw terminal

Power system	
External power operation	12/24 VDC, 24 W absolute max.

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Power system	
External power, connector type	2-pole jackable screw terminal
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> EN 61000-6-2:2001 (Immunity) EN 61000-6-3:2001 (Emission) FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 30 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	0.94 kg (2.07 lb.)
Camera size (L × W × H)	225 × 73 × 75 mm (8.8 × 2.9 × 3.0 in.)
Camera size, excl. lens (L × W × H)	203 × 73 × 75 mm (8.0 × 2.9 × 3.0 in.)
Tripod mounting	UNC ¼"-20 (on three sides)
Base mounting	2 × M4 thread mounting holes (on three sides)
Housing material	Aluminum
Comments to physical data	Outline dimensional drawings and STEP files can be found at http://support.flir.com

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> Infrared camera with lens Ethernet cable FLIR ResearchIR Max 4 (licence only) Hard transport case Mains cable Power cable, pig-tailed Power supply Printed documentation USB cable
Packaging, weight	
Packaging, size	360 × 180 × 550 mm (14.2 × 7.1 × 21.7 in.)
EAN-13	7332558003329
UPC-12	845188002800
Country of origin	Sweden

Supplies & accessories:

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198065; IR lens, f=6.5 mm (80°) with case
- T198165; IR lens, f=88.9 mm (7°) with case and support for A6xx/A6xxsc
- T198066; Close-up IR lens, 1.5× (25 µm) with case
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- 1910400; Power cord EU
- 1910402; Power cord UK
- 1910401; Power cord US
- T911803; Power supply, 24 VDC, 2 A, 50 W
- T910922; Power supply, incl. multi plugs, for A3xx, A3xxsc, A6xx and A6xxsc
- 1910423; USB cable Std A <-> Mini-B



FLIR A655sc 45°

P/N: 55001-0303

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Website

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Customer support

<http://support.flir.com>

- T951004ACC; Ethernet cable CAT6, 2 m/6.6 ft.
- 1910586ACC; Power cable, pigtailed
- T197871ACC; Hard transport case for A3xx/A6xx series
- T197870ACC; Cardboard box for A3xx/A6xx series
- T126889ACC; Filter holder for A6xx lenses
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
<p>The FLIR A655sc is an excellent choice for those working in R&D and require the highest frame rates and 640 × 480 pixel resolution. When using the camera in R&D, it is highly recommended to use the FLIR ResearchIR software from FLIR Systems.</p> <p>The camera is equipped with a 7° lens.</p>	
Key features:	
<ul style="list-style-type: none"> Affordable. 16-bit 640 × 480 pixel images at 50 Hz. Start recording in FLIR ResearchIR using digital input. Windowing mode: 640 × 240 pixels at 100 Hz or 640 × 120 pixels at 200 Hz. 	
Typical applications:	
<ul style="list-style-type: none"> Mid- or high-end industrial R&D. 	

Imaging and optical data	
IR resolution	640 × 480 pixels
Thermal sensitivity/NETD	< 0.03°C @ +30°C (+86°F) / 30 mK
Field of view (FOV)	7° × 5.3° (8.7° diagonally)
Minimum focus distance	2.0 m (6.6 ft.)
Focal length	88.9 mm (3.5 in.)
Spatial resolution (IFOV)	0.19 mrad
Lens identification	Automatic
F-number	1.3
Image frequency	50 Hz (100/200 Hz with windowing)
Focus	Automatic or manual (built in motor)

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm
Detector time constant	Typical 8 ms

Measurement	
Object temperature range	<ul style="list-style-type: none"> –40°C to +150°C (–40°F to +302°F) 100 to +650°C (+212 to +1202°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading

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Website

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Customer support

<http://support.flir.com>

Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

USB	
USB	<ul style="list-style-type: none"> Control and image
USB, standard	USB 2 HS
USB, connector type	<ul style="list-style-type: none"> USB Mini-B
USB, communication	TCP/IP socket-based FLIR proprietary
USB, image streaming	16-bit 640 × 480 pixels @ 25 Hz <ul style="list-style-type: none"> Signal linear Temperature linear Radiometric
USB, protocols	TCP, UDP, SNMP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary and GenICam protocol
Ethernet, image streaming	16-bit 640 × 480 pixels @ 50 Hz 16-bit 640 × 240 pixels @ 100 Hz 16-bit 640 × 120 pixels @ 200 Hz <ul style="list-style-type: none"> Signal linear Temperature linear Radiometric GigE Vision and GenICam compatible
Ethernet, protocols	TCP, UDP, SNMP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Digital input/output	
Digital input, purpose	Image tag (start, stop, general), Image flow control, (stream on/off), Input ext. device (programmatically read)
Digital input	2 opto-isolated, 0–1.5 V = low, 3–25 V = high
Digital output, purpose	Output to ext. device (programmatically set)
Digital output	2 opto-isolated, ON = supply (max. 100 mA), OFF = open
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	6–24 VDC, max. 200 mA
Digital I/O, connector type	6-pole jackable screw terminal



FLIR A655sc 7°

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Website

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Customer support

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Power system	
External power operation	12/24 VDC, 24 W absolute max.
External power, connector type	2-pole jackable screw terminal
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none">EN 61000-6-2:2001 (Immunity)EN 61000-6-3:2001 (Emission)FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 30 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	1.61 kg (3.55 lb.)
Camera size (L x W x H)	271x 126 x 128 mm (10.7 x 5.0 x 5.0 in.)
Camera size, excl. lens (L x W x H)	203x 73 x 75 mm (8.0 x 2.9 x 3.0 in.)
Tripod mounting	UNC ¼"-20 (on three sides)
Base mounting	2 x M4 thread mounting holes (on three sides)
Housing material	Aluminum
Comments to physical data	Outline dimensional drawings and STEP files can be found at http://support.flir.com

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">Infrared camera with lensEthernet cableFLIR ResearchIR Max 4 (licence only)Hard transport caseMains cablePower cable, pig-tailedPower supplyPrinted documentationUSB cable
Packaging, weight	
Packaging, size	
EAN-13	7332558004715
UPC-12	845188004651
Country of origin	Sweden

Supplies & accessories:

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198065; IR lens, f=6.5 mm (80°) with case
- T198165; IR lens, f=88.9 mm (7°) with case and support for A6xx/A6xxsc
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- 1910400; Power cord EU
- 1910402; Power cord UK
- 1910401; Power cord US
- T911803; Power supply, 24 VDC, 2 A, 50 W
- T910922; Power supply, incl. multi plugs, for A3xx, A3xxsc, A6xx and A6xxsc



FLIR A655sc 7°

P/N: 55001-0304

Revision

38889

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2016-12-09 14:28 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 1910423; USB cable Std A <-> Mini-B
- T951004ACC; Ethernet cable CAT6, 2 m/6.6 ft.
- 1910586ACC; Power cable, pigtailed
- T197871ACC; Hard transport case for A3xx/A6xx series
- T197870ACC; Cardboard box for A3xx/A6xx series
- T126889ACC; Filter holder for A6xx lenses
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

P/N: 55001-0305

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General description	
The FLIR A655sc is an excellent choice for those working in R&D and require the highest frame rates and 640 × 480 pixel resolution. When using the camera in R&D, it is highly recommended to use the FLIR ResearchIR software from FLIR Systems.	
The camera is equipped with a 80° lens.	
Key features:	
<ul style="list-style-type: none"> Affordable. 16-bit 640 × 480 pixel images at 50 Hz. Start recording in FLIR ResearchIR using digital input. Windowing mode: 640 × 240 pixels at 100 Hz or 640 × 120 pixels at 200 Hz. 	
Typical applications:	
<ul style="list-style-type: none"> Mid- or high-end industrial R&D. 	

Imaging and optical data	
IR resolution	640 × 480 pixels
Thermal sensitivity/NETD	< 0.03°C @ +30°C (+86°F) / 30 mK
Field of view (FOV)	80° × 64.4° (92.8° diagonal)
Minimum focus distance	65 mm (2.6 in.)
Focal length	6.5 mm (0.26 in.)
Spatial resolution (IFOV)	2.62 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	50 Hz (100/200 Hz with windowing)
Focus	Automatic or manual (built in motor)

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm
Detector time constant	Typical 8 ms

Measurement	
Object temperature range	<ul style="list-style-type: none"> -40°C to +150°C (-40°F to +302°F) 100 to +650°C (+212 to +1202°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading

Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors



FLIR A655sc 80°

P/N: 55001-0305

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Website

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Customer support

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Measurement analysis	
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

USB	
USB	<ul style="list-style-type: none"> Control and image
USB, standard	USB 2 HS
USB, connector type	<ul style="list-style-type: none"> USB Mini-B
USB, communication	TCP/IP socket-based FLIR proprietary
USB, image streaming	16-bit 640 × 480 pixels @ 25 Hz <ul style="list-style-type: none"> Signal linear Temperature linear Radiometric
USB, protocols	TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary and GenICam protocol
Ethernet, image streaming	16-bit 640 × 480 pixels @ 50 Hz 16-bit 640 × 240 pixels @ 100 Hz 16-bit 640 × 120 pixels @ 200 Hz <ul style="list-style-type: none"> Signal linear Temperature linear Radiometric GigE Vision and GenICam compatible
Ethernet, protocols	TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Digital input/output	
Digital input, purpose	Image tag (start, stop, general), Image flow control, (stream on/off), Input ext. device (programmatically read)
Digital input	2 opto-isolated, 0–1.5 V = low, 3–25 V = high
Digital output, purpose	Output to ext. device (programmatically set)
Digital output	2 opto-isolated, ON = supply (max. 100 mA), OFF = open
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	6–24 VDC, max. 200 mA
Digital I/O, connector type	6-pole jackable screw terminal

Power system	
External power operation	12/24 VDC, 24 W absolute max.



FLIR A655sc 80°

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Power system	
External power, connector type	2-pole jackable screw terminal
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none">EN 61000-6-2:2001 (Immunity)EN 61000-6-3:2001 (Emission)FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 30 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	1.17 kg (2.58 lb.)
Camera size (L × W × H)	297 × 73 × 75 mm (11.7 × 2.9 × 3.0 in.)
Camera size, excl. lens (L × W × H)	203 × 73 × 75 mm (8.0 × 2.9 × 3.0 in.)
Tripod mounting	UNC ¼"-20 (on three sides)
Base mounting	2 × M4 thread mounting holes (on three sides)
Housing material	Aluminum
Comments to physical data	Outline dimensional drawings and STEP files can be found at http://support.flir.com

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">Infrared camera with lensEthernet cableFLIR ResearchIR Max 4 (licence only)Hard transport caseMains cablePower cable, pig-tailedPower supplyPrinted documentationUSB cable
Packaging, weight	
Packaging, size	
EAN-13	7332558006054
UPC-12	845188006266
Country of origin	Sweden

Supplies & accessories:

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198065; IR lens, f=6.5 mm (80°) with case
- T198165; IR lens, f=88.9 mm (7°) with case and support for A6xx/A6xxsc
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- 1910400; Power cord EU
- 1910402; Power cord UK
- 1910401; Power cord US
- T911803; Power supply, 24 VDC, 2 A, 50 W
- T910922; Power supply, incl. multi plugs, for A3xx, A3xxsc, A6xx and A6xxsc
- 1910423; USB cable Std A <-> Mini-B
- T951004ACC; Ethernet cable CAT6, 2 m/6.6 ft.



FLIR A655sc 80°

P/N: 55001-0305

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Website

<http://www.flir.com>

Customer support

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- 1910586ACC; Power cable, pigtailed
- T197871ACC; Hard transport case for A3xx/A6xx series
- T197870ACC; Cardboard box for A3xx/A6xx series
- T126889ACC; Filter holder for A6xx lenses
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

FLIR A6xxx series

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Website

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Customer support

<http://support.flir.com>



Detector data	
Detector Type	FLIR Indium Antimonide (InSb)
Spectral Range	1.0 – 5.0 μm
Resolution	640 x 512
Detector Pitch	15 μm
Thermal Sensitivity/NETD	< 18 mK
Well Capacity	7.2 M electrons
Operability	> 99.8% (> 99.95% typical)
Sensor Cooling	Closed-cycle rotary

Electronics	
Readout Type	Snapshot
Readout Modes	Asynchronous integrate while read Asynchronous integrate then read
Synchronization Modes	Sync In, Sync Out
Image Time Stamp	Yes
Integration Time	480 ns to Full Frame
Pixel Clock	50 MHz
Frame Rate (Full Window)	Programmable; 0.0015 Hz to 60 Hz
Subwindow Mode	640x512, 320x256, 160x128, A6750 has flexible windowing down to 64 x 4 (steps of 16 columns, 4 rows)
Dynamic Range	14-bit
On-Camera Image Storage	None
Radiometric Data Streaming	Gigabit Ethernet (GigE Vision)
Standard Video	NTSC or PAL composite
Command and Control	GenICam (GigE)

Temperature Measurement	
Standard Temperature Range	-20°C to 350°C (-4°F to 662°F)
Optional Temperature Range	Up to 1,500°C (2,732°F), Up to 2,000°C (3,632°F), Up to 3,000°C (5,432°F)
Accuracy	$\pm 1^\circ\text{C}$ or $\pm 1\%$ of reading: <ul style="list-style-type: none"> 0°C to +3000°C (25 mm, 50 mm, 100 mm lenses) $\pm 2^\circ\text{C}$ or $\pm 2\%$ of reading: <ul style="list-style-type: none"> -20°C to 0°C (25 mm, 50 mm, 100 mm lenses)



FLIR A6700sc

P/N: 29350-200

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Optics	
Camera f/Number	f/2.5
Available Lenses	25 mm, 50 mm, 100mm
Close-up Lenses/Microscopes	N/A
Lens Interface	FLIR HDC (4-tab bayonet)
Focus	Manual
Filtering	Behind lens mount for standard 1 inch diameter filters

Image/Video Presentation	
Palettes	Selectable 8-bit
Automatic Gain Control	Manual, Linear, Plateau equalization, ROI, DDE
Overlay	Customizable (Date, Integration time, Internal temp, Frame rate, Sync mode, Cooler hours)
Video Modes	NTSC, PAL
Digital Zoom	1x, 4x

General	
Operating Temperature Range	-20°C to 50°C (-4°F to 122°F)
Shock/Vibration	40 g, 11 msec ½ sine pulse/4.3 g RMS random vibration, all 3 axes
Power	24 VDC (< 21.25 W steady state)
Weight w/o Lens	2.3 kg (5 lbs)
Size (L x W x H) w/o Lens	216 x 102 x 109 mm (8.5 x 4.0 x 4.3 in.)
Mounting	<ul style="list-style-type: none">• 2 x ¼" -20 tapped holes• 1 x 3/8"-16 tapped hole• 4 x 10-24 tapped holes

Supplies & accessories:

- 29425-100; Lens 1-5 um 100 mm f/2.5 HDC Bayonet
- 29425-025; Lens 1-5 um 25 mm f/2.5 HDC Bayonet
- 29425-050; Lens 1-5 um 50 mm f/2.5 HDC Bayonet

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Website

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Customer support

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Detector data	
Detector Type	FLIR Indium Antimonide (InSb)
Spectral Range	3.0 – 5.0 μm
Resolution	640 x 512
Detector Pitch	15 μm
Thermal Sensitivity/NETD	< 18 mK
Well Capacity	7.2 M electrons
Operability	> 99.8% (> 99.95% typical)
Sensor Cooling	Closed-cycle rotary

Electronics	
Readout Type	Snapshot
Readout Modes	Asynchronous integrate while read Asynchronous integrate then read
Synchronization Modes	Sync In, Sync Out
Image Time Stamp	Yes
Integration Time	480 ns to Full Frame
Pixel Clock	50 MHz
Frame Rate (Full Window)	Programmable; 0.0015 Hz to 60 Hz
Subwindow Mode	640x512, 320x256, 160x128, A6750 has flexible windowing down to 64 x 4 (steps of 16 columns, 4 rows)
Dynamic Range	14-bit
On-Camera Image Storage	None
Radiometric Data Streaming	Gigabit Ethernet (GigE Vision)
Standard Video	NTSC or PAL composite
Command and Control	GenICam (GigE)

Temperature Measurement	
Standard Temperature Range	-20°C to 350°C (-4°F to 662°F)
Optional Temperature Range	Up to 1,500°C (2,732°F), Up to 2,000°C (3,632°F), Up to 3,000°C (5,432°F)
Accuracy	$\pm 1^\circ\text{C}$ or $\pm 1\%$ of reading: <ul style="list-style-type: none"> 0°C to +3000°C (17 mm, 25 mm, 50 mm, 100 mm, 200 mm lenses) $\pm 2^\circ\text{C}$ or $\pm 2\%$ of reading: <ul style="list-style-type: none"> -20°C to 0°C (17 mm, 25 mm, 50 mm, 100 mm, 200 mm lenses)



FLIR A6701sc

P/N: 29350-201

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Optics	
Camera f/Number	f/2.5
Available Lenses	17 mm, 25 mm, 50 mm, 100 mm, 200 mm
Close-up Lenses/Microscopes	No microscopes available
Lens Interface	FLIR HDC (4-tab bayonet)
Focus	Manual
Filtering	Behind lens mount for standard 1 inch diameter filters

Image/Video Presentation	
Palettes	Selectable 8-bit
Automatic Gain Control	Manual, Linear, Plateau equalization, ROI, DDE
Overlay	Customizable (Date, Integration time, Internal temp, Frame rate, Sync mode, Cooler hours)
Video Modes	NTSC, PAL
Digital Zoom	1x, 4x

General	
Operating Temperature Range	-20°C to 50°C (-4°F to 122°F)
Shock/Vibration	40 g, 11 msec ½ sine pulse/4.3 g RMS random vibration, all 3 axes
Power	24 VDC (< 21.25 W steady state)
Weight w/o Lens	2.3 kg (5 lbs)
Size (L x W x H) w/o Lens	216 x 102 x 109 mm (8.5 x 4.0 x 4.3 in.)
Mounting	<ul style="list-style-type: none">• 2 x ¼" -20 tapped holes• 1 x 3/8"-16 tapped hole• 4 x 10-24 tapped holes

Supplies & accessories:

- 4203499; Lens 3-5 um 100 mm f/2.5 HDC Bayonet
- 4205267; Lens 3-5 um 17 mm f/2.5 HDC Bayonet
- 4205268; Lens 3-5 um 200 mm f/2.5 HDC Bayonet
- 4203497; Lens 3-5 um 25 mm f/2.5 HDC Bayonet
- 4203498; Lens 3-5 um 50 mm f/2.5 HDC Bayonet
- 29425-001; Lens, 3-5 um, 1X microscope, f/4 HDC Bayonet
- 29425-004; Lens, 3-5 um, 4X microscope, f/4 HDC Bayonet

P/N: 29350-202

Revision

47445

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Website

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Customer support

<http://support.flir.com>



Detector data	
Detector Type	FLIR Indium Antimonide (InSb)
Spectral Range	1.0 – 5.0 μm
Resolution	640 x 512
Detector Pitch	15 μm
Thermal Sensitivity/NETD	< 18 mK
Well Capacity	7.2 M electrons
Operability	> 99.8% (> 99.95% typical)
Sensor Cooling	Closed-cycle rotary

Electronics	
Readout Type	Snapshot
Readout Modes	Asynchronous integrate while read Asynchronous integrate then read
Synchronization Modes	Sync In, Sync Out
Image Time Stamp	Yes
Integration Time	480 ns to Full Frame
Pixel Clock	50 MHz
Frame Rate (Full Window)	Programmable; 0.0015 Hz to 60 Hz
Subwindow Mode	640x512, 320x256, 160x128, A6750 has flexible windowing down to 64 x 4 (steps of 16 columns, 4 rows)
Dynamic Range	14-bit
On-Camera Image Storage	None
Radiometric Data Streaming	Gigabit Ethernet (GigE Vision)
Standard Video	NTSC or PAL composite
Command and Control	GenICam (GigE)

Temperature Measurement	
Standard Temperature Range	-20°C to 350°C (-4°F to 662°F)
Optional Temperature Range	Up to 1,500°C (2,732°F), Up to 2,000°C (3,632°F), Up to 3,000°C (5,432°F)
Accuracy	$\pm 1^\circ\text{C}$ or $\pm 1\%$ of reading: <ul style="list-style-type: none"> 0°C to +3000°C (17 mm, 25 mm, 50 mm, 100 mm, 200 mm lenses) $\pm 2^\circ\text{C}$ or $\pm 2\%$ of reading: <ul style="list-style-type: none"> -20°C to 0°C (17 mm, 25 mm, 50 mm, 100 mm, 200 mm lenses)



FLIR A6702sc

P/N: 29350-202

Revision

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Optics	
Camera f/Number	f/4
Available Lenses	25 mm, 50 mm, 100mm
Close-up Lenses/Microscopes	No microscopes available
Lens Interface	FLIR HDC (4-tab bayonet)
Focus	Manual
Filtering	Behind lens mount for standard 1 inch diameter filters

Image/Video Presentation	
Palettes	Selectable 8-bit
Automatic Gain Control	Manual, Linear, Plateau equalization, ROI, DDE
Overlay	Customizable (Date, Integration time, Internal temp, Frame rate, Sync mode, Cooler hours)
Video Modes	NTSC, PAL
Digital Zoom	1x, 4x

General	
Operating Temperature Range	-20°C to 50°C (-4°F to 122°F)
Shock/Vibration	40 g, 11 msec ½ sine pulse/4.3 g RMS random vibration, all 3 axes
Power	24 VDC (< 21.25 W steady state)
Weight w/o Lens	2.3 kg (5 lbs)
Size (L x W x H) w/o Lens	216 x 102 x 109 mm (8.5 x 4.0 x 4.3 in.)
Mounting	<ul style="list-style-type: none">• 2 x ¼" -20 tapped holes• 1 x 3/8"-16 tapped hole• 4 x 10-24 tapped holes

Supplies & accessories:

- 29425-100; Lens 1-5 um 100 mm f/2.5 HDC Bayonet
- 29425-025; Lens 1-5 um 25 mm f/2.5 HDC Bayonet
- 29425-050; Lens 1-5 um 50 mm f/2.5 HDC Bayonet

P/N: 29350-203

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Detector data	
Detector Type	FLIR Indium Antimonide (InSb)
Spectral Range	3.0 – 5.0 μm
Resolution	640 x 512
Detector Pitch	15 μm
Thermal Sensitivity/NETD	< 18 mK
Well Capacity	7.2 M electrons
Operability	> 99.8% (> 99.95% typical)
Sensor Cooling	Closed-cycle rotary

Electronics	
Readout Type	Snapshot
Readout Modes	Asynchronous integrate while read Asynchronous integrate then read
Synchronization Modes	Sync In, Sync Out
Image Time Stamp	Yes
Integration Time	480 ns to Full Frame
Pixel Clock	50 MHz
Frame Rate (Full Window)	Programmable; 0.0015 Hz to 60 Hz
Subwindow Mode	640x512, 320x256, 160x128, A6750 has flexible windowing down to 64 x 4 (steps of 16 columns, 4 rows)
Dynamic Range	14-bit
On-Camera Image Storage	None
Radiometric Data Streaming	Gigabit Ethernet (GigE Vision)
Standard Video	NTSC or PAL composite
Command and Control	GenICam (GigE)

Temperature Measurement	
Standard Temperature Range	-20°C to 350°C (-4°F to 662°F)
Optional Temperature Range	Up to 1,500°C (2,732°F), Up to 2,000°C (3,632°F), Up to 3,000°C (5,432°F)
Accuracy	<p>$\pm 1^\circ\text{C}$ or $\pm 1\%$ of reading:</p> <ul style="list-style-type: none"> 0°C to +3000°C (17 mm, 25 mm, 50 mm, 100 mm, 200 mm lenses) <p>$\pm 2^\circ\text{C}$ or $\pm 2\%$ of reading:</p> <ul style="list-style-type: none"> -20°C to 0°C (17 mm, 25 mm, 50 mm, 100 mm, 200 mm lenses) -10°C to +500°C (1x & 4x Close Up lenses)



FLIR A6703sc

P/N: 29350-203

Revision

47446

Last modified

2018-02-06 09:51 UTC+1

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Optics	
Camera f/Number	f/4
Available Lenses	17 mm, 25 mm, 50 mm, 100 mm, 200 mm
Close-up Lenses/Microscopes	1X, 4X
Lens Interface	FLIR HDC (4-tab bayonet)
Focus	Manual
Filtering	Behind lens mount for standard 1 inch diameter filters

Image/Video Presentation	
Palettes	Selectable 8-bit
Automatic Gain Control	Manual, Linear, Plateau equalization, ROI, DDE
Overlay	Customizable (Date, Integration time, Internal temp, Frame rate, Sync mode, Cooler hours)
Video Modes	NTSC, PAL
Digital Zoom	1x, 4x

General	
Operating Temperature Range	-20°C to 50°C (-4°F to 122°F)
Shock/Vibration	40 g, 11 msec ½ sine pulse/4.3 g RMS random vibration, all 3 axes
Power	24 VDC (< 21.25 W steady state)
Weight w/o Lens	2.3 kg (5 lbs)
Size (L x W x H) w/o Lens	216 x 102 x 109 mm (8.5 x 4.0 x 4.3 in.)
Mounting	<ul style="list-style-type: none">• 2 x ¼" -20 tapped holes• 1 x 3/8"-16 tapped hole• 4 x 10-24 tapped holes

Supplies & accessories:

- 4203499; Lens 3-5 um 100 mm f/2.5 HDC Bayonet
- 4205267; Lens 3-5 um 17 mm f/2.5 HDC Bayonet
- 4205268; Lens 3-5 um 200 mm f/2.5 HDC Bayonet
- 4203497; Lens 3-5 um 25 mm f/2.5 HDC Bayonet
- 4203498; Lens 3-5 um 50 mm f/2.5 HDC Bayonet
- 29425-001; Lens, 3-5 um, 1X microscope, f/4 HDC Bayonet
- 29425-004; Lens, 3-5 um, 4X microscope, f/4 HDC Bayonet

P/N: 29350-250

Revision

47447

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Website

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Customer support

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Detector data	
Detector Type	FLIR Indium Antimonide (InSb)
Spectral Range	1.0 – 5.0 μm
Resolution	640 x 512
Detector Pitch	15 μm
Thermal Sensitivity/NETD	< 18 mK
Well Capacity	7.2 M electrons
Operability	> 99.8% (> 99.95% typical)
Sensor Cooling	Closed-cycle rotary

Electronics	
Readout Type	Snapshot
Readout Modes	Asynchronous integrate while read Asynchronous integrate then read
Synchronization Modes	Sync In, Sync Out
Image Time Stamp	Yes
Integration Time	480 ns to Full Frame
Pixel Clock	50 MHz
Frame Rate (Full Window)	Programmable; 0.0015 Hz to 125Hz
Subwindow Mode	640x512, 320x256, 160x128, A6750 has flexible windowing down to 64 x 4 (steps of 16 columns, 4 rows)
Dynamic Range	14-bit
On-Camera Image Storage	None
Radiometric Data Streaming	Gigabit Ethernet (GigE Vision)
Standard Video	NTSC or PAL composite
Command and Control	GenICam (GigE)

Temperature Measurement	
Standard Temperature Range	-20°C to 350°C (-4°F to 662°F)
Optional Temperature Range	Up to 1,500°C (2,732°F), Up to 2,000°C (3,632°F), Up to 3,000°C (5,432°F)
Accuracy	$\pm 1^\circ\text{C}$ or $\pm 1\%$ of reading: <ul style="list-style-type: none"> 0°C to +3000°C (17 mm, 25 mm, 50 mm, 100 mm, 200 mm lenses) $\pm 2^\circ\text{C}$ or $\pm 2\%$ of reading: <ul style="list-style-type: none"> -20°C to 0°C (17 mm, 25 mm, 50 mm, 100 mm, 200 mm lenses)



FLIR A6750sc MWIR

P/N: 29350-250

Revision

47447

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Website

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Optics	
Camera f/Number	f/2.5
Available Lenses	25 mm, 50 mm, 100mm
Close-up Lenses/Microscopes	No Microscopes Available
Lens Interface	FLIR HDC (4-tab bayonet)
Focus	Manual
Filtering	Behind lens mount for standard 1 inch diameter filters

Image/Video Presentation	
Palettes	Selectable 8-bit
Automatic Gain Control	Manual, Linear, Plateau equalization, ROI, DDE
Overlay	Customizable (Date, Integration time, Internal temp, Frame rate, Sync mode, Cooler hours)
Video Modes	NTSC, PAL
Digital Zoom	1x, 4x

General	
Operating Temperature Range	-20°C to 50°C (-4°F to 122°F)
Shock/Vibration	40 g, 11 msec ½ sine pulse/4.3 g RMS random vibration, all 3 axes
Power	24 VDC (< 21.25 W steady state)
Weight w/o Lens	2.3 kg (5 lbs)
Size (L x W x H) w/o Lens	216 x 102 x 109 mm (8.5 x 4.0 x 4.3 in.)
Mounting	<ul style="list-style-type: none">• 2 x ¼" -20 tapped holes• 1 x 3/8"-16 tapped hole• 4 x 10-24 tapped holes

Supplies & accessories:

- 29425-100; Lens 1-5 um 100 mm f/2.5 HDC Bayonet
- 29425-025; Lens 1-5 um 25 mm f/2.5 HDC Bayonet
- 29425-050; Lens 1-5 um 50 mm f/2.5 HDC Bayonet

P/N: 29350-251

Revision

47448

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Detector data	
Detector Type	FLIR Indium Antimonide (InSb)
Spectral Range	3.0 – 5.0 μm
Resolution	640 x 512
Detector Pitch	15 μm
Thermal Sensitivity/NETD	< 18 mK
Well Capacity	7.2 M electrons
Operability	> 99.8% (> 99.95% typical)
Sensor Cooling	Closed-cycle rotary

Electronics	
Readout Type	Snapshot
Readout Modes	Asynchronous integrate while read Asynchronous integrate then read
Synchronization Modes	Sync In, Sync Out
Image Time Stamp	Yes
Integration Time	480 ns to Full Frame
Pixel Clock	50 MHz
Frame Rate (Full Window)	Programmable; 0.0015 Hz to 125Hz
Subwindow Mode	640x512, 320x256, 160x128, A6750 has flexible windowing down to 64 x 4 (steps of 16 columns, 4 rows)
Dynamic Range	14-bit
On-Camera Image Storage	None
Radiometric Data Streaming	Gigabit Ethernet (GigE Vision)
Standard Video	NTSC or PAL composite
Command and Control	GenICam (GigE)

Temperature Measurement	
Standard Temperature Range	-20°C to 350°C (-4°F to 662°F)
Optional Temperature Range	Up to 1,500°C (2,732°F), Up to 2,000°C (3,632°F), Up to 3,000°C (5,432°F)
Accuracy	$\pm 1^\circ\text{C}$ or $\pm 1\%$ of reading: <ul style="list-style-type: none"> 0°C to +3000°C (17 mm, 25 mm, 50 mm, 100 mm, 200 mm lenses) $\pm 2^\circ\text{C}$ or $\pm 2\%$ of reading: <ul style="list-style-type: none"> -20°C to 0°C (17 mm, 25 mm, 50 mm, 100 mm, 200 mm lenses)



FLIR A6751sc

P/N: 29350-251

Revision

47448

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2018-02-06 09:58 UTC+1

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Optics	
Camera f/Number	f/2.5
Available Lenses	17 mm, 25 mm, 50 mm, 100 mm, 200 mm
Close-up Lenses/Microscopes	No microscopes available
Lens Interface	FLIR HDC (4-tab bayonet)
Focus	Manual
Filtering	Behind lens mount for standard 1 inch diameter filters

Image/Video Presentation	
Palettes	Selectable 8-bit
Automatic Gain Control	Manual, Linear, Plateau equalization, ROI, DDE
Overlay	Customizable (Date, Integration time, Internal temp, Frame rate, Sync mode, Cooler hours)
Video Modes	NTSC, PAL
Digital Zoom	1x, 4x

General	
Operating Temperature Range	-20°C to 50°C (-4°F to 122°F)
Shock/Vibration	40 g, 11 msec ½ sine pulse/4.3 g RMS random vibration, all 3 axes
Power	24 VDC (< 21.25 W steady state)
Weight w/o Lens	2.3 kg (5 lbs)
Size (L x W x H) w/o Lens	216 x 102 x 109 mm (8.5 x 4.0 x 4.3 in.)
Mounting	<ul style="list-style-type: none">• 2 x ¼" -20 tapped holes• 1 x 3/8"-16 tapped hole• 4 x 10-24 tapped holes

Supplies & accessories:

- 4203499; Lens 3-5 um 100 mm f/2.5 HDC Bayonet
- 4205267; Lens 3-5 um 17 mm f/2.5 HDC Bayonet
- 4205268; Lens 3-5 um 200 mm f/2.5 HDC Bayonet
- 4203497; Lens 3-5 um 25 mm f/2.5 HDC Bayonet
- 4203498; Lens 3-5 um 50 mm f/2.5 HDC Bayonet
- 29425-001; Lens, 3-5 um, 1X microscope, f/4 HDC Bayonet
- 29425-004; Lens, 3-5 um, 4X microscope, f/4 HDC Bayonet

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47449

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Detector data	
Detector Type	FLIR Indium Antimonide (InSb)
Spectral Range	1.0 – 5.0 μm
Resolution	640 x 512
Detector Pitch	15 μm
Thermal Sensitivity/NETD	< 18 mK
Well Capacity	7.2 M electrons
Operability	> 99.8% (> 99.95% typical)
Sensor Cooling	Closed-cycle rotary

Electronics	
Readout Type	Snapshot
Readout Modes	Asynchronous integrate while read Asynchronous integrate then read
Synchronization Modes	Sync In, Sync Out
Image Time Stamp	Yes
Integration Time	480 ns to Full Frame
Pixel Clock	50 MHz
Frame Rate (Full Window)	Programmable; 0.0015 Hz to 125Hz
Subwindow Mode	640x512, 320x256, 160x128, A6750 has flexible windowing down to 64 x 4 (steps of 16 columns, 4 rows)
Dynamic Range	14-bit
On-Camera Image Storage	None
Radiometric Data Streaming	Gigabit Ethernet (GigE Vision)
Standard Video	NTSC or PAL composite
Command and Control	GenICam (GigE)

Temperature Measurement	
Standard Temperature Range	-20°C to 350°C (-4°F to 662°F)
Optional Temperature Range	Up to 1,500°C (2,732°F), Up to 2,000°C (3,632°F), Up to 3,000°C (5,432°F)
Accuracy	$\pm 1^\circ\text{C}$ or $\pm 1\%$ of reading: <ul style="list-style-type: none"> 0°C to +3000°C (25 mm, 50 mm, 100 mm lenses) $\pm 2^\circ\text{C}$ or $\pm 2\%$ of reading: <ul style="list-style-type: none"> -20°C to 0°C (25 mm, 50 mm, 100 mm lenses)



FLIR A6752sc

P/N: 29350-252

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Optics	
Camera f/Number	f/4
Available Lenses	25 mm, 50 mm, 100mm
Close-up Lenses/Microscopes	No microscopes available
Lens Interface	FLIR HDC (4-tab bayonet)
Focus	Manual
Filtering	Behind lens mount for standard 1 inch diameter filters

Image/Video Presentation	
Palettes	Selectable 8-bit
Automatic Gain Control	Manual, Linear, Plateau equalization, ROI, DDE
Overlay	Customizable (Date, Integration time, Internal temp, Frame rate, Sync mode, Cooler hours)
Video Modes	NTSC, PAL
Digital Zoom	1x, 4x

General	
Operating Temperature Range	-20°C to 50°C (-4°F to 122°F)
Shock/Vibration	40 g, 11 msec ½ sine pulse/4.3 g RMS random vibration, all 3 axes
Power	24 VDC (< 21.25 W steady state)
Weight w/o Lens	2.3 kg (5 lbs)
Size (L x W x H) w/o Lens	216 x 102 x 109 mm (8.5 x 4.0 x 4.3 in.)
Mounting	<ul style="list-style-type: none">• 2 x ¼" -20 tapped holes• 1 x 3/8"-16 tapped hole• 4 x 10-24 tapped holes

Supplies & accessories:

- 29425-100; Lens 1-5 um 100 mm f/2.5 HDC Bayonet
- 29425-025; Lens 1-5 um 25 mm f/2.5 HDC Bayonet
- 29425-050; Lens 1-5 um 50 mm f/2.5 HDC Bayonet

P/N: 29350-253

Revision

47450

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Detector data	
Detector Type	FLIR Indium Antimonide (InSb)
Spectral Range	3.0 – 5.0 μm
Resolution	640 x 512
Detector Pitch	15 μm
Thermal Sensitivity/NETD	< 18 mK
Well Capacity	7.2 M electrons
Operability	> 99.8% (> 99.95% typical)
Sensor Cooling	Closed-cycle rotary

Electronics	
Readout Type	Snapshot
Readout Modes	Asynchronous integrate while read Asynchronous integrate then read
Synchronization Modes	Sync In, Sync Out
Image Time Stamp	Yes
Integration Time	480 ns to Full Frame
Pixel Clock	50 MHz
Frame Rate (Full Window)	Programmable; 0.0015 Hz to 125Hz
Subwindow Mode	640x512, 320x256, 160x128, A6750 has flexible windowing down to 64 x 4 (steps of 16 columns, 4 rows)
Dynamic Range	14-bit
On-Camera Image Storage	None
Radiometric Data Streaming	Gigabit Ethernet (GigE Vision)
Standard Video	NTSC or PAL composite
Command and Control	GenICam (GigE)

Temperature Measurement	
Standard Temperature Range	-20°C to 350°C (-4°F to 662°F)
Optional Temperature Range	Up to 1,500°C (2,732°F), Up to 2,000°C (3,632°F), Up to 3,000°C (5,432°F)
Accuracy	<p>$\pm 1^\circ\text{C}$ or $\pm 1\%$ of reading:</p> <ul style="list-style-type: none"> 0°C to +3000°C (17 mm, 25 mm, 50 mm, 100 mm, 200 mm lenses) <p>$\pm 2^\circ\text{C}$ or $\pm 2\%$ of reading:</p> <ul style="list-style-type: none"> -20°C to 0°C (17 mm, 25 mm, 50 mm, 100 mm, 200 mm lenses) -10°C to +500°C (1x & 4x Close Up lenses)



FLIR A6753sc

P/N: 29350-253

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Website

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Customer support

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Temperature Measurement	

Optics	
Camera f/Number	f/4
Available Lenses	17 mm, 25 mm, 50 mm, 100 mm, 200 mm
Close-up Lenses/Microscopes	1X, 4X
Lens Interface	FLIR HDC (4-tab bayonet)
Focus	Manual
Filtering	Behind lens mount for standard 1 inch diameter filters

Image/Video Presentation	
Palettes	Selectable 8-bit
Automatic Gain Control	Manual, Linear, Plateau equalization, ROI, DDE
Overlay	Customizable (Date, Integration time, Internal temp, Frame rate, Sync mode, Cooler hours)
Video Modes	NTSC, PAL
Digital Zoom	1x, 4x

General	
Operating Temperature Range	-20°C to 50°C (-4°F to 122°F)
Shock/Vibration	40 g, 11 msec ½ sine pulse/4.3 g RMS random vibration, all 3 axes
Power	24 VDC (< 21.25 W steady state)
Weight w/o Lens	2.3 kg (5 lbs)
Size (L x W x H) w/o Lens	216 x 102 x 109 mm (8.5 x 4.0 x 4.3 in.)
Mounting	<ul style="list-style-type: none">• 2 x ¼" -20 tapped holes• 1 x 3/8"-16 tapped hole• 4 x 10-24 tapped holes

Supplies & accessories:

- 4203499; Lens 3-5 um 100 mm f/2.5 HDC Bayonet
- 4205267; Lens 3-5 um 17 mm f/2.5 HDC Bayonet
- 4205268; Lens 3-5 um 200 mm f/2.5 HDC Bayonet
- 4203497; Lens 3-5 um 25 mm f/2.5 HDC Bayonet
- 4203498; Lens 3-5 um 50 mm f/2.5 HDC Bayonet
- 29425-001; Lens, 3-5 um, 1X microscope, f/4 HDC Bayonet
- 29425-004; Lens, 3-5 um, 4X microscope, f/4 HDC Bayonet

P/N: 29360-200

Revision

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Website

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Customer support

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Detector data	
Detector Type	FLIR Indium Antimonide (InSb)
Spectral Range	1.0 – 5.0 μm
Resolution	640 x 512
Detector Pitch	15 μm
Thermal Sensitivity/NETD	< 18 mK
Well Capacity	7.2 M electrons
Operability	> 99.8% (> 99.95% typical)
Sensor Cooling	Closed cycle rotary

Electronics	
Readout Type	Snapshot
Readout Modes	Asynchronous integrate while read, Asynchronous integrate then read
Synchronization Modes	Sync In, Sync Out
Image Time Stamp	Yes
Integration Time	480 ns to Full Frame
Pixel Clock	50 MHz
Frame Rate (Full Window)	Programmable; 0.0015 Hz to 60 Hz
Subwindow Mode	640x512, 320x256, 160x128
Dynamic Range	14-bit
On-Camera Image Storage	None
Radiometric Data Streaming	Gigabit Ethernet (GigE Vision)
Standard Video	NTSC or PAL composite
Command and Control	GenICam (GigE)

Temperature Measurement	
Standard Temperature Range	-20°C to 350°C (-4°F to 662°F)
Optional Temperature Range	Up to 1,500°C (2,732°F), Up to 2,000°C (3,632°F), Up to 3,000°C (5,432°F)
Accuracy	$\pm 1^\circ\text{C}$ or $\pm 1\%$ of reading: <ul style="list-style-type: none"> 0°C to +3000°C (25 mm, 50 mm, 100 mm lenses) $\pm 2^\circ\text{C}$ or $\pm 2\%$ of reading: <ul style="list-style-type: none"> -20°C to 0°C (25 mm, 50 mm, 100 mm lenses)



FLIR A6600

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Optics	
Camera f/Number	f/2.5
Available Lenses (Uses FLIR HDC Optics)	25 mm, 50 mm, 100 mm
Close-up Lenses/Microscopes	No microscopes available
Lens Interface	FLIR HDC (4-tab bayonet)
Focus	Manual
Filtering	Behind-lens mount for standard 1 inch diameter filters

Image/Video Presentation	
Palettes	Selectable 8-bit
Automatic Gain Control	Manual, Linear, Plateau equalization, ROI, DDE
Overlay	Customizable (Date, Integration time, Internal temp, Frame rate, Sync mode, Cooler hours)
Video Modes	NTSC, PAL
Digital Zoom	1x, 4x

General	
Operating Temperature Range	-20°C to 50°C (-4°F to 122°F)
Shock/Vibration	40 g, 11 msec ½ sine pulse/4.3 g RMS random vibration, all 3 axes
Power	24 VDC (< 21.25 W steady state)
Weight w/o Lens	2.3 kg (5 lbs)
Size (L x W x H) w/o Lens	216 x 102 x 109 mm (8.5 x 4.0 x 4.3 in)
Mounting	<ul style="list-style-type: none">• 2 x ¼" -20 tapped holes• 1 x 3/8"-16 tapped hole• 4 x 10-24 tapped holes

Supplies & accessories:

- 29425-100; Lens 1-5 um 100 mm f/2.5 HDC Bayonet
- 29425-025; Lens 1-5 um 25 mm f/2.5 HDC Bayonet
- 29425-050; Lens 1-5 um 50 mm f/2.5 HDC Bayonet

P/N: 29360-201

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Detector data	
Detector Type	FLIR Indium Antimonide (InSb)
Spectral Range	3.0 – 5.0 μm
Resolution	640 x 512
Detector Pitch	15 μm
Thermal Sensitivity/NETD	< 18 mK
Well Capacity	7.2 M electrons
Operability	> 99.8% (> 99.95% typical)
Sensor Cooling	Closed cycle rotary

Electronics	
Readout Type	Snapshot
Readout Modes	Asynchronous integrate while read, Asynchronous integrate then read
Synchronization Modes	Sync In, Sync Out
Image Time Stamp	Yes
Integration Time	480 ns to Full Frame
Pixel Clock	50 MHz
Frame Rate (Full Window)	Programmable; 0.0015 Hz to 60 Hz
Subwindow Mode	640x512, 320x256, 160x128
Dynamic Range	14-bit
On-Camera Image Storage	None
Radiometric Data Streaming	Gigabit Ethernet (GigE Vision)
Standard Video	NTSC or PAL composite
Command and Control	GenICam (GigE)

Temperature Measurement	
Standard Temperature Range	-20°C to 350°C (-4°F to 662°F)
Optional Temperature Range	Up to 1,500°C (2,732°F), Up to 2,000°C (3,632°F), Up to 3,000°C (5,432°F)
Accuracy	$\pm 1^\circ\text{C}$ or $\pm 1\%$ of reading: <ul style="list-style-type: none"> 0°C to +3000°C (17 mm, 25 mm, 50 mm, 100 mm, 200 mm lenses) $\pm 2^\circ\text{C}$ or $\pm 2\%$ of reading: <ul style="list-style-type: none"> -20°C to 0°C (17 mm, 25 mm, 50 mm, 100 mm, 200 mm lenses)



FLIR A6601

P/N: 29360-201

Revision

47452

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2018-02-06 10:17 UTC+1

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Website

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Customer support

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Optics	
Camera f/Number	f/2.5
Available Lenses (Uses FLIR HDC Optics)	17 mm, 25 mm, 50 mm, 100 mm, 200 mm
Close-up Lenses/Microscopes	No microscopes available
Lens Interface	FLIR HDC (4-tab bayonet)
Focus	Manual
Filtering	Behind-lens mount for standard 1 inch diameter filters

Image/Video Presentation	
Palettes	Selectable 8-bit
Automatic Gain Control	Manual, Linear, Plateau equalization, ROI, DDE
Overlay	Customizable (Date, Integration time, Internal temp, Frame rate, Sync mode, Cooler hours)
Video Modes	NTSC, PAL
Digital Zoom	1x, 4x

General	
Operating Temperature Range	-20°C to 50°C (-4°F to 122°F)
Shock/Vibration	40 g, 11 msec ½ sine pulse/4.3 g RMS random vibration, all 3 axes
Power	24 VDC (< 21.25 W steady state)
Weight w/o Lens	2.3 kg (5 lbs)
Size (L x W x H) w/o Lens	216 x 102 x 109 mm (8.5 x 4.0 x 4.3 in)
Mounting	<ul style="list-style-type: none">• 2 x ¼" -20 tapped holes• 1 x 3/8"-16 tapped hole• 4 x 10-24 tapped holes

Supplies & accessories:

- 4203499; Lens 3-5 um 100 mm f/2.5 HDC Bayonet
- 4205267; Lens 3-5 um 17 mm f/2.5 HDC Bayonet
- 4205268; Lens 3-5 um 200 mm f/2.5 HDC Bayonet
- 4203497; Lens 3-5 um 25 mm f/2.5 HDC Bayonet
- 4203498; Lens 3-5 um 50 mm f/2.5 HDC Bayonet
- 29425-001; Lens, 3-5 um, 1X microscope, f/4 HDC Bayonet
- 29425-004; Lens, 3-5 um, 4X microscope, f/4 HDC Bayonet

P/N: 29360-202

Revision

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Website

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Customer support

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Detector data	
Detector Type	FLIR Indium Antimonide (InSb)
Spectral Range	1.0 – 5.0 μm
Resolution	640 x 512
Detector Pitch	15 μm
Thermal Sensitivity/NETD	< 18 mK
Well Capacity	7.2 M electrons
Operability	> 99.8% (> 99.95% typical)
Sensor Cooling	Closed cycle rotary

Electronics	
Readout Type	Snapshot
Readout Modes	Asynchronous integrate while read, Asynchronous integrate then read
Synchronization Modes	Sync In, Sync Out
Image Time Stamp	Yes
Integration Time	480 ns to Full Frame
Pixel Clock	50 MHz
Frame Rate (Full Window)	Programmable; 0.0015 Hz to 60 Hz
Subwindow Mode	640x512, 320x256, 160x128
Dynamic Range	14-bit
On-Camera Image Storage	None
Radiometric Data Streaming	Gigabit Ethernet (GigE Vision)
Standard Video	NTSC or PAL composite
Command and Control	GenICam (GigE)

Temperature Measurement	
Standard Temperature Range	-20°C to 350°C (-4°F to 662°F)
Optional Temperature Range	Up to 1,500°C (2,732°F), Up to 2,000°C (3,632°F), Up to 3,000°C (5,432°F)
Accuracy	$\pm 1^\circ\text{C}$ or $\pm 1\%$ of reading: <ul style="list-style-type: none"> 0°C to +3000°C (25 mm, 50 mm, 100 mm lenses) $\pm 2^\circ\text{C}$ or $\pm 2\%$ of reading: <ul style="list-style-type: none"> -20°C to 0°C (25 mm, 50 mm, 100 mm lenses)



FLIR A6602 MWIR

P/N: 29360-202

Revision

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2018-02-06 10:19 UTC+1

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Optics	
Camera f/Number	f/4
Available Lenses (Uses FLIR HDC Optics)	25 mm, 50 mm, 100mm
Close-up Lenses/Microscopes	No microscopes available
Lens Interface	FLIR HDC (4-tab bayonet)
Focus	Manual
Filtering	Behind-lens mount for standard 1 inch diameter filters

Image/Video Presentation	
Palettes	Selectable 8-bit
Automatic Gain Control	Manual, Linear, Plateau equalization, ROI, DDE
Overlay	Customizable (Date, Integration time, Internal temp, Frame rate, Sync mode, Cooler hours)
Video Modes	NTSC, PAL
Digital Zoom	1x, 4x

General	
Operating Temperature Range	-20°C to 50°C (-4°F to 122°F)
Shock/Vibration	40 g, 11 msec ½ sine pulse/4.3 g RMS random vibration, all 3 axes
Power	24 VDC (< 21.25 W steady state)
Weight w/o Lens	2.3 kg (5 lbs)
Size (L x W x H) w/o Lens	216 x 102 x 109 mm (8.5 x 4.0 x 4.3 in)
Mounting	<ul style="list-style-type: none">• 2 x ¼" -20 tapped holes• 1 x 3/8"-16 tapped hole• 4 x 10-24 tapped holes

Supplies & accessories:

- 29425-100; Lens 1-5 um 100 mm f/2.5 HDC Bayonet
- 29425-025; Lens 1-5 um 25 mm f/2.5 HDC Bayonet
- 29425-050; Lens 1-5 um 50 mm f/2.5 HDC Bayonet

P/N: 29360-203

Revision

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2018-02-06 10:21 UTC+1

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Website

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Detector data	
Detector Type	FLIR Indium Antimonide (InSb)
Spectral Range	3.0 – 5.0 μm
Resolution	640 x 512
Detector Pitch	15 μm
Thermal Sensitivity/NETD	< 18 mK
Well Capacity	7.2 M electrons
Operability	> 99.8% (> 99.95% typical)
Sensor Cooling	Closed cycle rotary

Electronics	
Readout Type	Snapshot
Readout Modes	Asynchronous integrate while read, Asynchronous integrate then read
Synchronization Modes	Sync In, Sync Out
Image Time Stamp	Yes
Integration Time	480 ns to Full Frame
Pixel Clock	50 MHz
Frame Rate (Full Window)	Programmable; 0.0015 Hz to 60 Hz
Subwindow Mode	640x512, 320x256, 160x128
Dynamic Range	14-bit
On-Camera Image Storage	None
Radiometric Data Streaming	Gigabit Ethernet (GigE Vision)
Standard Video	NTSC or PAL composite
Command and Control	GenICam (GigE)

Temperature Measurement	
Standard Temperature Range	-20°C to 350°C (-4°F to 662°F)
Optional Temperature Range	Up to 1,500°C (2,732°F), Up to 2,000°C (3,632°F), Up to 3,000°C (5,432°F)
Accuracy	$\pm 1^\circ\text{C}$ or $\pm 1\%$ of reading: <ul style="list-style-type: none"> 0°C to +3000°C (17 mm, 25 mm, 50 mm, 100 mm, 200 mm lenses) $\pm 2^\circ\text{C}$ or $\pm 2\%$ of reading: <ul style="list-style-type: none"> -20°C to 0°C (17 mm, 25 mm, 50 mm, 100 mm, 200 mm lenses) -10°C to +500°C (1x & 4x Close Up lenses)



FLIR A6603 MWIR

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Optics	
Camera f/Number	f/4
Available Lenses (Uses FLIR HDC Optics)	17 mm, 25 mm, 50 mm, 100 mm, 200 mm
Close-up Lenses/Microscopes	1X, 4X
Lens Interface	FLIR HDC (4-tab bayonet)
Focus	Manual
Filtering	Behind-lens mount for standard 1 inch diameter filters

Image/Video Presentation	
Palettes	Selectable 8-bit
Automatic Gain Control	Manual, Linear, Plateau equalization, ROI, DDE
Overlay	Customizable (Date, Integration time, Internal temp, Frame rate, Sync mode, Cooler hours)
Video Modes	NTSC, PAL
Digital Zoom	1x, 4x

General	
Operating Temperature Range	-20°C to 50°C (-4°F to 122°F)
Shock/Vibration	40 g, 11 msec ½ sine pulse/4.3 g RMS random vibration, all 3 axes
Power	24 VDC (< 21.25 W steady state)
Weight w/o Lens	2.3 kg (5 lbs)
Size (L x W x H) w/o Lens	216 x 102 x 109 mm (8.5 x 4.0 x 4.3 in)
Mounting	<ul style="list-style-type: none">• 2 x ¼" -20 tapped holes• 1 x 3/8"-16 tapped hole• 4 x 10-24 tapped holes

Supplies & accessories:

- 4203499; Lens 3-5 um 100 mm f/2.5 HDC Bayonet
- 4205267; Lens 3-5 um 17 mm f/2.5 HDC Bayonet
- 4205268; Lens 3-5 um 200 mm f/2.5 HDC Bayonet
- 4203497; Lens 3-5 um 25 mm f/2.5 HDC Bayonet
- 4203498; Lens 3-5 um 50 mm f/2.5 HDC Bayonet
- 29425-001; Lens, 3-5 um, 1X microscope, f/4 HDC Bayonet
- 29425-004; Lens, 3-5 um, 4X microscope, f/4 HDC Bayonet

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Website

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Detector data	
Detector Type	FLIR Indium Antimonide (InSb)
Spectral Range	1.0 – 5.0 μm
Resolution	640 x 512
Detector Pitch	15 μm
Thermal Sensitivity/NETD	< 18 mK
Well Capacity	7.2 M electrons
Operability	> 99.8% (> 99.95% typical)
Sensor Cooling	Closed cycle rotary

Electronics	
Readout Type	Snapshot
Readout Modes	Asynchronous integrate while read, Asynchronous integrate then read
Synchronization Modes	Sync In, Sync Out
Image Time Stamp	Yes
Integration Time	480 ns to Full Frame
Pixel Clock	50 MHz
Frame Rate (Full Window)	Programmable; 0.0015 Hz to 125Hz
Subwindow Mode	Flexible windowing down to 64 x 4 (steps of 16 columns, 4 rows)
Dynamic Range	14-bit
On-Camera Image Storage	None
Radiometric Data Streaming	Gigabit Ethernet (GigE Vision)
Standard Video	NTSC or PAL composite
Command and Control	GenICam (GigE)

Temperature Measurement	
Standard Temperature Range	-20°C to 350°C (-4°F to 662°F)
Optional Temperature Range	Up to 1,500°C (2,732°F), Up to 2,000°C (3,632°F), Up to 3,000°C (5,432°F)
Accuracy	$\pm 1^\circ\text{C}$ or $\pm 1\%$ of reading: <ul style="list-style-type: none"> 0°C to +3000°C (25 mm, 50 mm, 100 mm lenses) $\pm 2^\circ\text{C}$ or $\pm 2\%$ of reading: <ul style="list-style-type: none"> -20°C to 0°C (25 mm, 50 mm, 100 mm lenses)



FLIR A6650 MWIR

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Optics	
Camera f/Number	f/2.5
Available Lenses (Uses FLIR HDC Optics)	25 mm, 50 mm, 100mm
Close-up Lenses/Microscopes	No Microscopes Available
Lens Interface	FLIR HDC (4-tab bayonet)
Focus	Manual
Filtering	Behind-lens mount for standard 1 inch diameter filters

Image/Video Presentation	
Palettes	Selectable 8-bit
Automatic Gain Control	Manual, Linear, Plateau equalization, ROI, DDE
Overlay	Customizable (Date, Integration time, Internal temp, Frame rate, Sync mode, Cooler hours)
Video Modes	NTSC, PAL
Digital Zoom	1x, 4x

General	
Operating Temperature Range	-20°C to 50°C (-4°F to 122°F)
Shock/Vibration	40 g, 11 msec ½ sine pulse/4.3 g RMS random vibration, all 3 axes
Power	24 VDC (< 21.25 W steady state)
Weight w/o Lens	2.3 kg (5 lbs)
Size (L x W x H) w/o Lens	216 x 102 x 109 mm (8.5 x 4.0 x 4.3 in)
Mounting	<ul style="list-style-type: none">• 2 x ¼" -20 tapped holes• 1 x 3/8"-16 tapped hole• 4 x 10-24 tapped holes

Supplies & accessories:

- 29425-100; Lens 1-5 um 100 mm f/2.5 HDC Bayonet
- 29425-025; Lens 1-5 um 25 mm f/2.5 HDC Bayonet
- 29425-050; Lens 1-5 um 50 mm f/2.5 HDC Bayonet

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Revision

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Detector data	
Detector Type	FLIR Indium Antimonide (InSb)
Spectral Range	3.0 – 5.0 μm
Resolution	640 x 512
Detector Pitch	15 μm
Thermal Sensitivity/NETD	< 18 mK
Well Capacity	7.2 M electrons
Operability	> 99.8% (> 99.95% typical)
Sensor Cooling	Closed cycle rotary

Electronics	
Readout Type	Snapshot
Readout Modes	Asynchronous integrate while read, Asynchronous integrate then read
Synchronization Modes	Sync In, Sync Out
Image Time Stamp	Yes
Integration Time	480 ns to Full Frame
Pixel Clock	50 MHz
Frame Rate (Full Window)	Programmable; 0.0015 Hz to 125Hz
Subwindow Mode	Flexible windowing down to 64 x 4 (steps of 16 columns, 4 rows)
Dynamic Range	14-bit
On-Camera Image Storage	None
Radiometric Data Streaming	Gigabit Ethernet (GigE Vision)
Standard Video	NTSC or PAL composite
Command and Control	GenICam (GigE)

Temperature Measurement	
Standard Temperature Range	-20°C to 350°C (-4°F to 662°F)
Optional Temperature Range	Up to 1,500°C (2,732°F), Up to 2,000°C (3,632°F), Up to 3,000°C (5,432°F)
Accuracy	$\pm 1^\circ\text{C}$ or $\pm 1\%$ of reading: <ul style="list-style-type: none"> 0°C to +3000°C (17 mm, 25 mm, 50 mm, 100 mm, 200 mm lenses) $\pm 2^\circ\text{C}$ or $\pm 2\%$ of reading: <ul style="list-style-type: none"> -20°C to 0°C (17 mm, 25 mm, 50 mm, 100 mm, 200 mm lenses)



FLIR A6651

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Website

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Customer support

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Optics	
Camera f/Number	f/2.5
Available Lenses (Uses FLIR HDC Optics)	17 mm, 25 mm, 50 mm, 100 mm, 200 mm
Close-up Lenses/Microscopes	No Microscopes Available
Lens Interface	FLIR HDC (4-tab bayonet)
Focus	Manual
Filtering	Behind-lens mount for standard 1 inch diameter filters

Image/Video Presentation	
Palettes	Selectable 8-bit
Automatic Gain Control	Manual, Linear, Plateau equalization, ROI, DDE
Overlay	Customizable (Date, Integration time, Internal temp, Frame rate, Sync mode, Cooler hours)
Video Modes	NTSC, PAL
Digital Zoom	1x, 4x

General	
Operating Temperature Range	-20°C to 50°C (-4°F to 122°F)
Shock/Vibration	40 g, 11 msec ½ sine pulse/4.3 g RMS random vibration, all 3 axes
Power	24 VDC (< 21.25 W steady state)
Weight w/o Lens	2.3 kg (5 lbs)
Size (L x W x H) w/o Lens	216 x 102 x 109 mm (8.5 x 4.0 x 4.3 in)
Mounting	<ul style="list-style-type: none">• 2 x ¼" -20 tapped holes• 1 x 3/8"-16 tapped hole• 4 x 10-24 tapped holes

Supplies & accessories:

- 4203499; Lens 3-5 um 100 mm f/2.5 HDC Bayonet
- 4205267; Lens 3-5 um 17 mm f/2.5 HDC Bayonet
- 4205268; Lens 3-5 um 200 mm f/2.5 HDC Bayonet
- 4203497; Lens 3-5 um 25 mm f/2.5 HDC Bayonet
- 4203498; Lens 3-5 um 50 mm f/2.5 HDC Bayonet
- 29425-001; Lens, 3-5 um, 1X microscope, f/4 HDC Bayonet
- 29425-004; Lens, 3-5 um, 4X microscope, f/4 HDC Bayonet

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Revision

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Website

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Customer support

<http://support.flir.com>



Detector data	
Detector Type	FLIR Indium Antimonide (InSb)
Spectral Range	1.0 – 5.0 μm
Resolution	640 x 512
Detector Pitch	15 μm
Thermal Sensitivity/NETD	< 18 mK
Well Capacity	7.2 M electrons
Operability	> 99.8% (> 99.95% typical)
Sensor Cooling	Closed cycle rotary

Electronics	
Readout Type	Snapshot
Readout Modes	Asynchronous integrate while read, Asynchronous integrate then read
Synchronization Modes	Sync In, Sync Out
Image Time Stamp	Yes
Integration Time	480 ns to Full Frame
Pixel Clock	50 MHz
Frame Rate (Full Window)	Programmable; 0.0015 Hz to 125Hz
Subwindow Mode	Flexible windowing down to 64 x 4 (steps of 16 columns, 4 rows)
Dynamic Range	14-bit
On-Camera Image Storage	None
Radiometric Data Streaming	Gigabit Ethernet (GigE Vision)
Standard Video	NTSC or PAL composite
Command and Control	GenICam (GigE)

Temperature Measurement	
Standard Temperature Range	-20°C to 350°C (-4°F to 662°F)
Optional Temperature Range	Up to 1,500°C (2,732°F), Up to 2,000°C (3,632°F), Up to 3,000°C (5,432°F)
Accuracy	$\pm 1^\circ\text{C}$ or $\pm 1\%$ of reading: <ul style="list-style-type: none"> 0°C to +3000°C (25 mm, 50 mm, 100 mm lenses) $\pm 2^\circ\text{C}$ or $\pm 2\%$ of reading: <ul style="list-style-type: none"> -20°C to 0°C (25 mm, 50 mm, 100 mm lenses)



FLIR A6652

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Optics	
Camera f/Number	f/4
Available Lenses (Uses FLIR HDC Optics)	25 mm, 50 mm, 100mm
Close-up Lenses/Microscopes	No Microscopes Available
Lens Interface	FLIR HDC (4-tab bayonet)
Focus	Manual
Filtering	Behind-lens mount for standard 1 inch diameter filters

Image/Video Presentation	
Palettes	Selectable 8-bit
Automatic Gain Control	Manual, Linear, Plateau equalization, ROI, DDE
Overlay	Customizable (Date, Integration time, Internal temp, Frame rate, Sync mode, Cooler hours)
Video Modes	NTSC, PAL
Digital Zoom	1x, 4x

General	
Operating Temperature Range	-20°C to 50°C (-4°F to 122°F)
Shock/Vibration	40 g, 11 msec ½ sine pulse/4.3 g RMS random vibration, all 3 axes
Power	24 VDC (< 21.25 W steady state)
Weight w/o Lens	2.3 kg (5 lbs)
Size (L x W x H) w/o Lens	216 x 102 x 109 mm (8.5 x 4.0 x 4.3 in)
Mounting	<ul style="list-style-type: none">• 2 x ¼" -20 tapped holes• 1 x 3/8"-16 tapped hole• 4 x 10-24 tapped holes

Supplies & accessories:

- 29425-100; Lens 1-5 um 100 mm f/2.5 HDC Bayonet
- 29425-025; Lens 1-5 um 25 mm f/2.5 HDC Bayonet
- 29425-050; Lens 1-5 um 50 mm f/2.5 HDC Bayonet

P/N: 29360-253

Revision

47458

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2018-02-06 10:30 UTC+1

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Website

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Detector data	
Detector Type	FLIR Indium Antimonide (InSb)
Spectral Range	3.0 – 5.0 μm
Resolution	640 x 512
Detector Pitch	15 μm
Thermal Sensitivity/NETD	< 18 mK
Well Capacity	7.2 M electrons
Operability	> 99.8% (> 99.95% typical)
Sensor Cooling	Closed cycle rotary

Electronics	
Readout Type	Snapshot
Readout Modes	Asynchronous integrate while read, Asynchronous integrate then read
Synchronization Modes	Sync In, Sync Out
Image Time Stamp	Yes
Integration Time	480 ns to Full Frame
Pixel Clock	50 MHz
Frame Rate (Full Window)	Programmable; 0.0015 Hz to 125Hz
Subwindow Mode	Flexible windowing down to 64 x 4 (steps of 16 columns, 4 rows)
Dynamic Range	14-bit
On-Camera Image Storage	None
Radiometric Data Streaming	Gigabit Ethernet (GigE Vision)
Standard Video	NTSC or PAL composite
Command and Control	GenICam (GigE)

Temperature Measurement	
Standard Temperature Range	-20°C to 350°C (-4°F to 662°F)
Optional Temperature Range	Up to 1,500°C (2,732°F), Up to 2,000°C (3,632°F), Up to 3,000°C (5,432°F)
Accuracy	$\pm 1^\circ\text{C}$ or $\pm 1\%$ of reading: <ul style="list-style-type: none"> 0°C to +3000°C (17 mm, 25 mm, 50 mm, 100 mm, 200 mm lenses) $\pm 2^\circ\text{C}$ or $\pm 2\%$ of reading: <ul style="list-style-type: none"> -20°C to 0°C (17 mm, 25 mm, 50 mm, 100 mm, 200 mm lenses) -10°C to +500°C (1x & 4x Close Up lenses)



FLIR A6653

P/N: 29360-253

Revision

47458

Last modified

2018-02-06 10:30 UTC+1

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Optics	
Camera f/Number	f/4
Available Lenses (Uses FLIR HDC Optics)	17 mm, 25 mm, 50 mm, 100 mm, 200 mm
Close-up Lenses/Microscopes	1X, 4X
Lens Interface	FLIR HDC (4-tab bayonet)
Focus	Manual
Filtering	Behind-lens mount for standard 1 inch diameter filters

Image/Video Presentation	
Palettes	Selectable 8-bit
Automatic Gain Control	Manual, Linear, Plateau equalization, ROI, DDE
Overlay	Customizable (Date, Integration time, Internal temp, Frame rate, Sync mode, Cooler hours)
Video Modes	NTSC, PAL
Digital Zoom	1x, 4x

General	
Operating Temperature Range	-20°C to 50°C (-4°F to 122°F)
Shock/Vibration	40 g, 11 msec ½ sine pulse/4.3 g RMS random vibration, all 3 axes
Power	24 VDC (< 21.25 W steady state)
Weight w/o Lens	2.3 kg (5 lbs)
Size (L x W x H) w/o Lens	216 x 102 x 109 mm (8.5 x 4.0 x 4.3 in)
Mounting	<ul style="list-style-type: none">• 2 x ¼" -20 tapped holes• 1 x 3/8"-16 tapped hole• 4 x 10-24 tapped holes

Supplies & accessories:

- 4203499; Lens 3-5 um 100 mm f/2.5 HDC Bayonet
- 4205267; Lens 3-5 um 17 mm f/2.5 HDC Bayonet
- 4205268; Lens 3-5 um 200 mm f/2.5 HDC Bayonet
- 4203497; Lens 3-5 um 25 mm f/2.5 HDC Bayonet
- 4203498; Lens 3-5 um 50 mm f/2.5 HDC Bayonet
- 29425-001; Lens, 3-5 um, 1X microscope, f/4 HDC Bayonet
- 29425-004; Lens, 3-5 um, 4X microscope, f/4 HDC Bayonet

FLIR A8xxx series

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P/N: 29244-203

Revision

47460

Last modified

2018-02-06 10:35 UTC+1

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Detector data	
Detector Type	FLIR Indium Antimonide (InSb)
Spectral Range	3.0 – 5.0 μm
Resolution	1280 x 720
Detector Pitch	14 μm
Thermal Sensitivity/NETD	< 20 mK
Well Capacity	5.9 M electrons
Operability	> 99.8% (> 99.95% typical)
Sensor Cooling	Closed cycle linear

Electronics	
Readout Type	Snapshot
Readout Modes	Asynchronous integrate while read, Asynchronous integrate then read
Synchronization Modes	Sync In, Sync Out
Image Time Stamp	Yes
Integration Time	480 ns to Full Frame
Pixel Clock	100 MHz
Frame Rate (Full Window)	Programmable; 0.0015 Hz to 60 Hz
Subwindow Mode	Flexible windowing down to 64 x 4 (steps of 64 columns, 4 rows)
Dynamic Range	14-bit
On-Camera Image Storage	None
Radiometric Data Streaming	Gigabit Ethernet (GigE Vision), Coax Express
Standard Video	HD-SDI
Command and Control	GenICam (GigE, Coax Express)

Temperature Measurement	
Standard Temperature Range	-20°C to 350°C (-4°F to 662°F)
Optional Temperature Range	Up to 1,500°C (2,732°F), Up to 2,000°C (3,632°F), Up to 3,000°C (5,432°F)
Accuracy	<p>$\pm 1^\circ\text{C}$ or $\pm 1\%$ of reading:</p> <ul style="list-style-type: none"> 0°C to +3000°C (17 mm, 25 mm, 50 mm, 100 mm, 200 mm lenses) <p>$\pm 2^\circ\text{C}$ or $\pm 2\%$ of reading:</p> <ul style="list-style-type: none"> -20°C to 0°C (17 mm, 25 mm, 50 mm, 100 mm, 200 mm lenses) -10°C to +500°C (1x & 4x Close Up lenses)



FLIR A8303sc

P/N: 29244-203

Revision

47460

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2018-02-06 10:35 UTC+1

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Optics	
Camera f/Number	f/4
Available Lenses	17 mm, 25 mm, 50 mm, 100 mm, 200 mm
Close-up Lenses/Microscopes	1X, 4X
Lens Interface	FLIR 3-tab bayonet
Focus	Manual
Filtering	Behind lens mount for standard 1 inch diameter filters
Image/Video Presentation	
Palettes	Selectable 8-bit
Automatic Gain Control	Manual, Linear, Plateau equalization, ROI, DDE
Overlay	Customizable (Date, Integration time, Internal temp, Frame rate, Sync mode, Cooler hours)
Video Modes	HD: 720p/59.9/50Hz, 1080p/29.9/25Hz
Digital Zoom	1x, 4x

General	
Operating Temperature Range	-20°C to 50°C (-4°F to 122°F)
Shock/Vibration	40 g, 11 msec ½ sine pulse/4.3 g RMS random vibration, all 3 axes
Power	24 VDC (< 50 W steady state)
Weight w/o Lens	3.7 kg (8.2 lbs)
Size (L x W x H) w/o Lens	226 x 117 x 135 mm (8.9 x 4.6 x 5.3 in.)
Mounting	<ul style="list-style-type: none">• 2 x ¼" -20 tapped holes• 1 x 3/8"-16 tapped hole• 4 x 10-24 tapped holes

Supplies & accessories:

- 23898-000; Lens 3-5 um 25 mm f/4 Three Tab Bayonet
- 23899-000; Lens 3-5 um 50 mm f/4 Three Tab Bayonet
- 23900-000; Lens 3-5 um 100 mm f/4 Three Tab Bayonet
- 28304-000; Lens, 3-5 um, 4X microscope, f/4 Three Tab Bayonet
- 4127040; Lens, 3-5 um, 1X microscope, f/4 Three Tab Bayonet

P/N: 29244-200

Revision

44518

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2017-08-29 13:13 UTC+1

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Specifications	
System Overview	A8300sc MWIR
Detector Type	FLIR Indium Antimonide (InSb)
Spectral Range	3.0 – 5.0 μm or 1.5 – 5.0 μm
Resolution	1280 x 720
Detector Pitch	14 μm
Thermal Sensitivity/NETD	< 20 mK
Well Capacity	5.9 M electrons
Operability	> 99.8% (> 99.95% typical)
Sensor Cooling	Closed cycle linear

Electronics	
Readout Type	Snapshot
Readout Modes	Asynchronous integrate while read, Asynchronous integrate then read
Synchronization Modes	Sync In, Sync Out
Image Time Stamp	Yes
Integration Time	480 ns to Full Frame
Pixel Clock	100 MHz
Frame Rate (Full Window)	Programmable; 0.0015 Hz to 60 Hz
Subwindow Mode	Flexible windowing down to 64 x 4 (steps of 64 columns, 4 rows)
Dynamic Range	14-bit
On-Camera Image Storage	None
Radiometric Data Streaming	Gigabit Ethernet (GigE Vision), Coax Express
Standard Video	HD-SDI
Command and Control	GenICam (GigE, Coax Express)

Temperature Measurement	
Standard Temperature Range	-20°C to 350°C (-4°F to 662°F)
Optional Temperature Range	Up to 1,500°C (2,732°F), Up to 3,000°C (5,432°F)
Accuracy	<ul style="list-style-type: none"> ± 1°C or ± 1% of reading: <ul style="list-style-type: none"> • 0°C to +3000°C (17mm, 25mm, 50mm, 100mm, 200mm Lenses) ± 2°C or ± 2% of reading: <ul style="list-style-type: none"> • -20°C to 0°C (17mm, 25mm, 50mm, 100mm, 200mm lenses) • -10°C to +500°C (1x & 4x Close Up lenses)



FLIR A8300sc MWIR

P/N: 29244-200

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Optics	
Camera f/Number	f/4
Available Lenses	<ul style="list-style-type: none">• 3-5 μm: 17 mm, 25 mm, 50 mm, 100 mm, 200 mm• Broadband (1.5-5 μm): 25 mm, 50 mm, 100mm
Close-up Lenses/Microscopes	1x, 4x (3-5 μ m)
Lens Interface	FLIR 3-tab bayonet
Focus	Manual
Filtering	Behind lens mount for standard 1 inch diameter filters

Image/Video Presentation	
Palettes	Selectable 8-bit
Automatic Gain Control	Manual, Linear, Plateau equalization, ROI, DDE
Overlay	Customizable (Date, Integration time, Internal temp, Frame rate, Sync mode, Cooler hours)
Video Modes	HD: 720p/59.9/50Hz, 1080p/29.9/25Hz
Digital Zoom	1x, 4x

General	
Operating Temperature Range	-20°C to 50°C (-4°F to 122°F)
Shock/Vibration	40 g, 11 msec $\frac{1}{2}$ sine pulse/4.3 g RMS random vibration, all 3 axes
Power	24 VDC (< 50 W steady state)
Weight w/o Lens	3.7 kg (8.2 lbs)
Size (L x W x H) w/o Lens	226 x 117 x 135 mm (8.9 x 4.6 x 5.3 in.)
Mounting	<ul style="list-style-type: none">• 2 x $\frac{1}{4}$" -20 tapped holes• 1 x $\frac{3}{8}$" -16 tapped hole• 4 x 10-24 tapped holes

P/N: 29406-203

Revision

47462

Last modified

2018-02-06 10:40 UTC+1

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Detector data	
Detector Type	FLIR Indium Antimonide (InSb)
Spectral Range	3.0 – 5.0 μm
Resolution	1024 x 1024
Detector Pitch	18 μm
Thermal Sensitivity/NETD	< 20 mK
Well Capacity	2.5 M electrons
Operability	> 99.8% (> 99.95% typical)
Sensor Cooling	Closed cycle linear

Electronics	
Readout Type	Snapshot
Readout Modes	Asynchronous integrate while read, Asynchronous integrate then read
Synchronization Modes	Sync In, Sync Out
Image Time Stamp	Yes
Integration Time	480 ns to Full Frame
Pixel Clock	100 MHz
Frame Rate (Full Window)	Programmable; 0.0015 Hz to 60 Hz
Subwindow Mode	Flexible windowing down to 64 x 8 (steps of 16 columns, 8 rows)
Dynamic Range	14-bit
On-Camera Image Storage	None
Radiometric Data Streaming	Gigabit Ethernet (GigE Vision), Coax Express
Standard Video	HD-SDI
Command and Control	GenICam (GigE, Coax Express)

Temperature Measurement	
Standard Temperature Range	-20°C to 350°C (-4°F to 662°F)
Optional Temperature Range	Up to 1,500°C (2,732°F), Up to 2,000°C (3,632°F), Up to 3,000°C (5,432°F)
Accuracy	<p>$\pm 1^\circ\text{C}$ or $\pm 1\%$ of reading:</p> <ul style="list-style-type: none"> 0°C to +3000°C (17 mm, 25 mm, 50 mm, 100 mm, 200 mm lenses) <p>$\pm 2^\circ\text{C}$ or $\pm 2\%$ of reading:</p> <ul style="list-style-type: none"> -20°C to 0°C (17 mm, 25 mm, 50 mm, 100 mm, 200 mm lenses) -10°C to +500°C (1x & 4x Close Up lenses)



FLIR A8203sc

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47462

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Optics	
Camera f/Number	f/4
Available Lenses	17 mm, 25 mm, 50 mm, 100 mm, 200 mm
Close-up Lenses/Microscopes	1x, 4x
Lens Interface	FLIR 3-tab bayonet
Focus	Manual
Filtering	Behind lens mount for standard 1 inch diameter filters

Image/Video Presentation	
Palettes	Selectable 8-bit
Automatic Gain Control	Manual, Linear, Plateau equalization, ROI, DDE
Overlay	Customizable (Date, Integration time, Internal temp, Frame rate, Sync mode, Cooler hours)
Video Modes	HD: 720p/59.9/50Hz, 1080p/29.9/25Hz
Digital Zoom	1x, 4x

General	
Operating Temperature Range	-20°C to 50°C (-4°F to 122°F)
Shock/Vibration	40 g, 11 msec ½ sine pulse/4.3 g RMS random vibration, all 3 axes
Power	24 VDC (< 50 W steady state)
Weight w/o Lens	3.7 kg (8.2 lbs)
Size (L x W x H) w/o Lens	226 x 117 x 135 mm (8.9 x 4.6 x 5.3 in.)
Mounting	<ul style="list-style-type: none">• 2 x ¼" -20 tapped holes• 1 x 3/8"-16 tapped hole• 4 x 10-24 tapped holes

Supplies & accessories:

- 23898-000; Lens 3-5 um 25 mm f/4 Three Tab Bayonet
- 23899-000; Lens 3-5 um 50 mm f/4 Three Tab Bayonet
- 23900-000; Lens 3-5 um 100 mm f/4 Three Tab Bayonet
- 28304-000; Lens, 3-5 um, 4X microscope, f/4 Three Tab Bayonet
- 4127040; Lens, 3-5 um, 1X microscope, f/4 Three Tab Bayonet

FLIR AX series

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P/N: 71201-0101

Revision

46356

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2017-11-15 16:05 UTC+1

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General description	
The FLIR AX8 camera/sensor provides an affordable and accurate temperature measurement solution for anyone who needs to solve problems that need built in "smartness" such as analysis, alarm functionality, and autonomous communication using standard protocols. The FLIR AX8 also has all the necessary features and functions to build distributed single- or multi-camera solutions utilizing standard Ethernet hardware and software protocols.	
The FLIR AX8 also has built-in support to connect to industrial control equipment such as PLCs, and allows the sharing of analysis and alarm results and simple control using the Ethernet/IP and Modbus TCP field bus protocols.	
Key features:	
<ul style="list-style-type: none"> • Support for the Ethernet/IP field bus protocol (analyze, alarm, and simple camera control). • Support for the Modbus TCP field bus protocol (analyze, alarm, and simple camera control). • Built-in analysis functionality. • Alarm functionality, as a function of analysis and more. • Built-in web server for control and set up. • MJPEG, MPEG-4, or H.264 image streaming. • PoE (Power over Ethernet). • General-purpose output. • 100 Mbps Ethernet (100 m cable). • On alarm: file sending (FTP) or e-mail (SMTP) of analysis results or images. 	
Typical applications:	
<ul style="list-style-type: none"> • Electrical and mechanical condition-monitoring applications where temperature or temperature trends can be an indication of a potential risk of failure. • Simple process control applications. 	

Imaging and optical data	
IR resolution	80 × 60 pixels
Thermal sensitivity/NETD	< 0.10°C @ +30°C (+86°F) / 100 mK
Field of view (FOV)	48° × 37°
Depth of field	0.1 m (0.33 ft.), infinity
Focal length	1.54 mm (0.061 in.)
Spatial resolution (IFOV)	11.1 mrad
F-number	1.1
Image frequency	9 Hz
Focus	Fixed

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm

P/N: 71201-0101

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Detector data	
Detector pitch	17 μ m
Detector time constant	Typical 12 ms

Visual camera	
Built-in digital camera	640 × 480
Digital camera, FOV	Adapts to the IR lens
Sensitivity	Minimum 10 lux without illuminator

Measurement	
Object temperature range	-10 to +150°C (14 to +302°F)
Accuracy	$\pm 2^\circ\text{C}$ ($\pm 3.6^\circ\text{F}$) or $\pm 2\%$ of reading (+10 to +100°C @ +10 to +35°C ambient)

Measurement analysis	
Spotmeter	6
Area	6 boxes with max./min./average
Automatic hot/cold detection	Max./min. temperature value and position shown within box
Measurement presets	Yes
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

Alarm	
Alarm functions	Automatic alarms on any selected measurement function. A maximum of 5 alarms can be set.
Alarm output	Digital out, store image, file sending (FTP), email (SMTP), notification

Set-up	
Color palettes	Color palettes (BW, BW inv, Iron, Rain)
Set-up commands	Date/time, Temperature ($^\circ\text{C}/^\circ\text{F}$)
Web interface	Yes

Storage of images	
Storage media	Built-in memory for image storage
Image storage mode	IR, visual, MSX
File formats	JPEG + FFF



FLIR AX8 9 Hz

P/N: 71201-0101

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Image streaming	
Image streaming formats	<ul style="list-style-type: none">• Motion JPEG stream MJPEG Baseline Process Encoder Baseline ISO/IEC 10918-1 JPEG compliance• MPEG stream Stream format MPEG-4 ISO/IEC 14496-2 Simple Profile level 2• H.264 stream Stream format H.264 Baseline Profile level 2.0
Image streaming resolution	640 × 480
Image modes	<ul style="list-style-type: none">• Thermal• Visual• MSX
Automatic image adjustment	Continuous
Multi Spectral Dynamic Imaging (MSX)	IR image with enhanced detail presentation

Ethernet	
Ethernet	Control, result and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	M12 8-pin X-coded
Ethernet, communication	TCP/IP socket-based FLIR proprietary
Ethernet, video streaming	Yes
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 2.
Ethernet, protocols	Ethernet/IP, Modbus TCP, TCP, UDP, SNMP, RTSP, RTP, HTTP, ICMP, IGMP, sftp, SMTP, DHCP, MDNS (Bonjour)

Digital input/output	
Digital input, purpose	NUC, NUC disable, Alarm
Digital input	1 opto-isolated, 10–25 VDC
Digital output, purpose	As function of alarm, output to ext. device (programmatically set)
Digital output	1 opto-isolated, 10–25 VDC, max. 100 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	10-25 VDC, max. 200 mA
Digital I/O, connector type	M12 8-pin A-coded (shared with ext. power)

Power system	
External power operation	12/24 VDC, 2 W continuously/ 4.7 W absolute max
External power, connector type	M12 8-pin A-coded (Shared with digital I/O)
Voltage	Allowed range 10.8–30 VDC
Power supply rating	Class 2 / LPS

Environmental data	
Operating temperature range	–0°C to +50°C (+32°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F) according to IEC 68-2-1 and IEC 68-2-2
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)/ 2 cycles

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Environmental data	
EMC	<ul style="list-style-type: none"> EN 61000-6-2:2001 (Immunity) EN 61000-6-3:2001 (Emission) FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 67 (IEC 60529)
Bump	25 g (IEC 60068-2-29)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	0.125 kg (0.28 lb.)
Camera size (L x W x H)	<ul style="list-style-type: none"> 54 x 25 x 79 mm (2.1 x 1 x 3.1 in.) without connectors 54 x 25 x 95 mm (2.1 x 1 x 3.7 in.) with connectors
Base mounting	4x mounting hole depth max 4.8 mm for screw type Delta PT 22 (ø2.2 mm)
Housing material	PA6 with 30% GF (glass fiber reinforced)

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> Infrared camera with lens Cardboard box Printed documentation
Packaging, weight	0.48 kg (1.06 lb.)
Packaging, size	210 x 142 x 70 mm (8.27 x 5.59 x 2.76 in.)
EAN-13	4743254001725
UPC-12	845188009373
Country of origin	Estonia

Supplies & accessories:

- T130169; Thermovision CM, max. 4 cameras
- T130170; Thermovision CM, max. 9 cameras
- T129259ACC; Cable M12 to pigtail, 10 m
- T129258ACC; Cable M12 to pigtail, 5 m
- T129886ACC; Cable M12, FLIR X-Coded to standard X-Coded
- T128391ACC; Cable, M12 to pigtail
- T198821; Cooling bracket
- T129257ACC; Ethernet cable M12 to RJ45, 10 m
- T128390ACC; Ethernet cable M12 to RJ45, 2 m
- T129256ACC; Ethernet cable M12 to RJ45, 5 m
- 71200-0002; FLIR AX8 accessory starter kit
- T199163; Front mounting plate kit (incl. cooling bracket)
- T130086; I/O module MIO-AX8-1
- T130087; I/O module MIO-AX8-7
- T199342; One-ball joint mounting bracket kit
- T199343; PoE injector, 12/24 V
- T199019; PoE injector, incl. cables
- T128775ACC; Rear mounting plate kit
- T199341; Two-ball joint mounting bracket kit

FLIR Ax5 series

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P/N: 62319-0101

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
The FLIR A15 has features and functions that make it the natural choice for anyone who uses PC software to solve problems and for whom 160 × 128 pixel resolution is sufficient.	
Among its main features are GigE Vision and GenICam compliance, which makes it plug-and-play when used with software packages such as IMAQ Vision and Halcon.	
Key features:	
<ul style="list-style-type: none"> • Very affordable. • Compact (40 mm × 43 mm × 106 mm). • GigE Vision and GenICam compliant. • GigE Vision lockable connector. • PoE (power over Ethernet). • 8-bit 160 × 128 pixel images streamed at 60 Hz, signal linear. • 14-bit 160 × 128 pixel images streamed at 60 Hz, signal and temperature linear. • High frame rates (60 Hz). • Synchronization between cameras possible. • 1x+1x GPIO. • Compliant with any software that supports GenICam, including National Instruments IMAQ Vision, Stemmers Common Vision Blox, and COGNEX Vision Pro. 	
Typical applications:	
<ul style="list-style-type: none"> • Automation and thermal machine vision. • Entry level "high-speed" R&D. 	

Imaging and optical data	
IR resolution	160 × 128 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	25° × 19°
Focal length	19 mm (0.75 in.)
Spatial resolution (IFOV)	2.63 mrad
F-number	1.25
Image frequency	60 Hz
Focus	Fixed

Detector data	
Detector type	Focal plane array (FPA), uncooled VOX microbolometer
Spectral range	7.5–13 μm
Detector pitch	50 μm
Detector time constant	Typical 12 ms

Measurement	
Object temperature range	<ul style="list-style-type: none"> • -25 to +135°C (-13 to 275°F) • -40 to +550°C (-40 to +1022°F)



FLIR A15 f=19 mm

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Website

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Measurement	
Accuracy	±5°C (±9°F) or ±5% of reading

Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.5 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	GigE Vision ver. 1.2 Client API GenICam compliant
Ethernet, image streaming	8-bit monochrome @ 60 Hz <ul style="list-style-type: none"> • Signal linear/ DDE • Automatic/ Manual • Flip H&V 14-bit 160 × 128 pixels @ 60 Hz <ul style="list-style-type: none"> • Signal linear/ DDE • Temperature linear GigE Vision and GenICam compatible
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0 Power
Ethernet, protocols	TCP, UDP, ICMP, IGMP, DHCP, GigEVision

Digital input/output	
Digital input, purpose	General purpose
Digital input	1× opto-isolated, "0" <2, "1" = 2–12 VDC.
Digital output, purpose	General purpose output to ext. device (programmatically set)
Digital output	1× opto-isolated, 2–40 VDC, max. 185 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	2–40 VDC, max. 200 mA
Digital I/O, connector type	12-pole M12 connector (shared with Digital synchronization and External power)
Synchronization in, purpose	Frame synchronization in to control camera
Synchronization in	1×, non-isolated
Synchronization in, type	LVC Buffer @ 3.3V, "0" <0.8 V, "1">2.0 V.
Synchronization out, purpose	Frame synchronization out to control another FLIR Ax5 camera
Synchronization out	1×, non-isolated
Synchronization out, type	LVC Buffer @ 3.3V, "0"=24 MA max, "1"= -24 mA max.



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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Digital input/output	
Digital synchronization, connector type	12-pole M12 connector (shared with Digital I/O and External power)

Power system	
External power operation	12/24 VDC, < 3.5 W nominal < 6.0 W absolute max.
External power, connector type	12-pole M12 connector (shared with Digital I/O and Digital Synchronization)
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F) NOTE: The operating temperature range assumes that the camera is mounted on the base support (included in the package) or a similar type of heatsink.
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none">• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 40 (IEC 60529) with base support mounted
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	0.200 kg (0.44 lb.)
Camera size (L × W × H)	106 × 40 × 43 mm (4.2 × 1.6 × 1.7 in.)
Tripod mounting	1 × UNC ¼"-20 (with Base support accessory, included in the delivery box)
Base mounting	4 × M3 thread mounting holes (bottom)
Housing material	Magnesium and aluminum

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Base support• Focus adjustment tool• Printed documentation
Packaging, weight	
Packaging, size	295 × 200 × 105 mm (11.6 × 7.9 × 4.1 in.)
EAN-13	7332558003992 4743254000605 (Estonia plant)
UPC-12	845188003555
Country of origin	Sweden

Supplies & accessories:

- T951004ACC; Ethernet cable CAT6, 2 m/6.6 ft.
- T198349; Base support
- T198348; Cable kit Mains (UK,EU,US)
- T198392; Table stand kit
- T911183; Gigabit PoE injector 16 W, with multi-plugs



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Customer support

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- T127605ACC; Cable M12 Pigtail
- T127606ACC; Cable M12 Sync
- T198342ACC; Focus adjustment tool
- T198594ACC; Transport case Ax5
- T199356; FLIR Ax5 accessory starter kit
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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General description

The FLIR A15 has features and functions that make it the natural choice for anyone who uses PC software to solve problems and for whom 160 × 128 pixel resolution is sufficient.

Among its main features are GigE Vision and GenICam compliance, which makes it plug-and-play when used with software packages such as IMAQ Vision and Halcon.

Key features:

- Very affordable.
- Compact (40 mm × 43 mm × 106 mm).
- GigE Vision and GenICam compliant.
- GigE Vision lockable connector.
- PoE (power over Ethernet).
- 8-bit 160 × 128 pixel images streamed at 7.5 Hz, signal linear.
- 14-bit 160 × 128 pixel images streamed at 7.5 Hz, signal and temperature linear.
- Synchronization between cameras possible.
- 1x+1x GPIO.
- Compliant with any software that supports GenICam, including National Instruments IMAQ Vision, Stemmers Common Vision Blox, and COGNEX Vision Pro.

Typical applications:

- Automation and thermal machine vision.
- Entry level "high-speed" R&D.

Imaging and optical data

IR resolution	160 × 128 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	25° × 19°
Focal length	19 mm (0.75 in.)
Spatial resolution (IFOV)	2.63 mrad
F-number	1.25
Image frequency	7.5 Hz
Focus	Fixed

Detector data

Detector type	Focal plane array (FPA), uncooled VOX microbolometer
Spectral range	7.5–13 μm
Detector pitch	50 μm
Detector time constant	Typical 12 ms

Measurement

Object temperature range	<ul style="list-style-type: none"> • -25 to +135°C (-13 to 275°F) • -40 to +550°C (-40 to +1022°F)
Accuracy	±5°C (±9°F) or ±5% of reading



FLIR A15 f=19 mm (7.5 Hz)

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Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.5 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	GigE Vision ver. 1.2 Client API GenICam compliant
Ethernet, image streaming	8-bit monochrome @ 7.5 Hz <ul style="list-style-type: none"> • Signal linear/ DDE • Automatic/ Manual • Flip H&V 14-bit 160 × 128 pixels @ 7.5 Hz <ul style="list-style-type: none"> • Signal linear/ DDE • Temperature linear GigE Vision and GenICam compatible
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0 Power
Ethernet, protocols	TCP, UDP, ICMP, IGMP, DHCP, GigEVision

Digital input/output	
Digital input, purpose	General purpose
Digital input	1× opto-isolated, "0" <2, "1" = 2–12 VDC.
Digital output, purpose	General purpose output to ext. device (programmatically set)
Digital output	1× opto-isolated, 2–40 VDC, max. 185 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	2–40 VDC, max. 200 mA
Digital I/O, connector type	12-pole M12 connector (shared with Digital synchronization and External power)
Synchronization in, purpose	Frame synchronization in to control camera
Synchronization in	1×, non-isolated
Synchronization in, type	LVC Buffer @ 3.3V, "0" <0.8 V, "1">2.0 V.
Synchronization out, purpose	Frame synchronization out to control another FLIR Ax5 camera
Synchronization out	1×, non-isolated
Synchronization out, type	LVC Buffer @ 3.3V, "0"=24 MA max, "1"= -24 mA max.
Digital synchronization, connector type	12-pole M12 connector (shared with Digital I/O and External power)



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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Power system	
External power operation	12/24 VDC, < 3.5 W nominal < 6.0 W absolute max.
External power, connector type	12-pole M12 connector (shared with Digital I/O and Digital Synchronization)
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F) NOTE: The operating temperature range assumes that the camera is mounted on the base support (included in the package) or a similar type of heatsink.
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none">• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 40 (IEC 60529) with base support mounted
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	0.200 kg (0.44 lb.)
Camera size (L × W × H)	106 × 40 × 43 mm (4.2 × 1.6 × 1.7 in.)
Tripod mounting	1 × UNC ¼"-20 (with Base support accessory, included in the delivery box)
Base mounting	4 × M3 thread mounting holes (bottom)
Housing material	Magnesium and aluminum

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Base support• Focus adjustment tool• Printed documentation
Packaging, weight	
Packaging, size	295 × 200 × 105 mm (11.6 × 7.9 × 4.1 in.)
EAN-13	7332558005668
UPC-12	845188005870
Country of origin	Sweden

Supplies & accessories:

- T951004ACC; Ethernet cable CAT6, 2 m/6.6 ft.
- T198349; Base support
- T198348; Cable kit Mains (UK,EU,US)
- T198392; Table stand kit
- T911183; Gigabit PoE injector 16 W, with multi-plugs
- T127605ACC; Cable M12 Pigtail
- T127606ACC; Cable M12 Sync
- T198342ACC; Focus adjustment tool
- T198594ACC; Transport case Ax5
- T199356; FLIR Ax5 accessory starter kit
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player



FLIR A15 f=19 mm (7.5 Hz)

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- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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General description	
<p>The FLIR A15 has features and functions that make it the natural choice for anyone who uses PC software to solve problems and for whom 160 × 128 pixel resolution is sufficient.</p> <p>Among its main features are GigE Vision and GenICam compliance, which makes it plug-and-play when used with software packages such as IMAQ Vision and Halcon.</p>	
<p>Key features:</p> <ul style="list-style-type: none"> • Very affordable. • Compact (40 mm × 43 mm × 106 mm). • GigE Vision and GenICam compliant. • GigE Vision lockable connector. • PoE (power over Ethernet). • 8-bit 160 × 128 pixel images streamed at 60 Hz, signal linear. • 14-bit 160 × 128 pixel images streamed at 60 Hz, signal and temperature linear. • High frame rates (60 Hz). • Synchronization between cameras possible. • 1x+1x GPIO. • Compliant with any software that supports GenICam, including National Instruments IMAQ Vision, Stemmers Common Vision Blox, and COGNEX Vision Pro. 	
<p>Typical applications:</p> <ul style="list-style-type: none"> • Automation and thermal machine vision. • Entry level "high-speed" R&D. 	

Imaging and optical data	
IR resolution	160 × 128 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	48° × 39°
Focal length	9 mm (0.35 in.)
Spatial resolution (IFOV)	5.56 mrad
F-number	1.25
Image frequency	60 Hz
Focus	Fixed

Detector data	
Detector type	Focal plane array (FPA), uncooled VOX microbolometer
Spectral range	7.5–13 μm
Detector pitch	50 μm
Detector time constant	Typical 12 ms

Measurement	
Object temperature range	<ul style="list-style-type: none"> • -25 to +135°C (-13 to 275°F) • -40 to +550°C (-40 to +1022°F)



FLIR A15 f=9 mm

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Website

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Customer support

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Measurement	
Accuracy	±5°C (±9°F) or ±5% of reading

Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.5 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	GigE Vision ver. 1.2 Client API GenICam compliant
Ethernet, image streaming	8-bit monochrome @ 60 Hz <ul style="list-style-type: none"> • Signal linear/ DDE • Automatic/ Manual • Flip H&V 14-bit 160 × 128 pixels @ 60 Hz <ul style="list-style-type: none"> • Signal linear/ DDE • Temperature linear GigE Vision and GenICam compatible
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0 Power
Ethernet, protocols	TCP, UDP, ICMP, IGMP, DHCP, GigEVision

Digital input/output	
Digital input, purpose	General purpose
Digital input	1× opto-isolated, "0" <2, "1" = 2–12 VDC.
Digital output, purpose	General purpose output to ext. device (programmatically set)
Digital output	1× opto-isolated, 2–40 VDC, max. 185 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	2–40 VDC, max. 200 mA
Digital I/O, connector type	12-pole M12 connector (shared with Digital synchronization and External power)
Synchronization in, purpose	Frame synchronization in to control camera
Synchronization in	1×, non-isolated
Synchronization in, type	LVC Buffer @ 3.3V, "0" <0.8 V, "1">2.0 V.
Synchronization out, purpose	Frame synchronization out to control another FLIR Ax5 camera
Synchronization out	1×, non-isolated
Synchronization out, type	LVC Buffer @ 3.3V, "0"=24 MA max, "1"= -24 mA max.



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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Digital input/output	
Digital synchronization, connector type	12-pole M12 connector (shared with Digital I/O and External power)

Power system	
External power operation	12/24 VDC, < 3.5 W nominal < 6.0 W absolute max.
External power, connector type	12-pole M12 connector (shared with Digital I/O and Digital Synchronization)
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F) NOTE: The operating temperature range assumes that the camera is mounted on the base support (included in the package) or a similar type of heatsink.
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none">• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 40 (IEC 60529) with base support mounted
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	0.200 kg (0.44 lb.)
Camera size (L × W × H)	106 × 40 × 43 mm (4.2 × 1.6 × 1.7 in.)
Tripod mounting	1 × UNC ¼"-20 (with Base support accessory, included in the delivery box)
Base mounting	4 × M3 thread mounting holes (bottom)
Housing material	Magnesium and aluminum

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Base support• Focus adjustment tool• Printed documentation
Packaging, weight	
Packaging, size	295 × 200 × 105 mm (11.6 × 7.9 × 4.1 in.)
EAN-13	7332558003978 4743254000599 (Estonia plant)
UPC-12	845188003548
Country of origin	Sweden

Supplies & accessories:

- T951004ACC; Ethernet cable CAT6, 2 m/6.6 ft.
- T198349; Base support
- T198348; Cable kit Mains (UK,EU,US)
- T198392; Table stand kit
- T911183; Gigabit PoE injector 16 W, with multi-plugs



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- T127605ACC; Cable M12 Pigtail
- T127606ACC; Cable M12 Sync
- T198342ACC; Focus adjustment tool
- T198594ACC; Transport case Ax5
- T199356; FLIR Ax5 accessory starter kit
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

P/N: 64309-0101

Revision

45742

Last modified

2017-10-12 11:25 UTC+1

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Website

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General description	
<p>The FLIR A15 has features and functions that make it the natural choice for anyone who uses PC software to solve problems and for whom 160 × 128 pixel resolution is sufficient.</p> <p>Among its main features are GigE Vision and GenICam compliance, which makes it plug-and-play when used with software packages such as IMAQ Vision and Halcon.</p>	
<p>Key features:</p> <ul style="list-style-type: none"> • Very affordable. • Compact (40 mm × 43 mm × 106 mm). • GigE Vision and GenICam compliant. • GigE Vision lockable connector. • PoE (power over Ethernet). • 8-bit 160 × 128 pixel images streamed at 7.5 Hz, signal linear. • 14-bit 160 × 128 pixel images streamed at 7.5 Hz, signal and temperature linear. • Synchronization between cameras possible. • 1x+1x GPIO. • Compliant with any software that supports GenICam, including National Instruments IMAQ Vision, Stemmers Common Vision Blox, and COGNEX Vision Pro. 	
<p>Typical applications:</p> <ul style="list-style-type: none"> • Automation and thermal machine vision. • Entry level "high-speed" R&D. 	

Imaging and optical data	
IR resolution	160 × 128 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	48° × 39°
Focal length	9 mm (0.35 in.)
Spatial resolution (IFOV)	5.56 mrad
F-number	1.25
Image frequency	7.5 Hz
Focus	Fixed

Detector data	
Detector type	Focal plane array (FPA), uncooled VOX microbolometer
Spectral range	7.5–13 μm
Detector pitch	50 μm
Detector time constant	Typical 12 ms

Measurement	
Object temperature range	<ul style="list-style-type: none"> • -25 to +135°C (-13 to 275°F) • -40 to +550°C (-40 to +1022°F)
Accuracy	±5°C (±9°F) or ±5% of reading



FLIR A15 f=9 mm (7.5 Hz)

P/N: 64309-0101

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Website

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Customer support

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Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.5 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	GigE Vision ver. 1.2 Client API GenICam compliant
Ethernet, image streaming	8-bit monochrome @ 7.5 Hz <ul style="list-style-type: none"> • Signal linear/ DDE • Automatic/ Manual • Flip H&V 14-bit 160 × 128 pixels @ 7.5 Hz <ul style="list-style-type: none"> • Signal linear/ DDE • Temperature linear GigE Vision and GenICam compatible
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0 Power
Ethernet, protocols	TCP, UDP, ICMP, IGMP, DHCP, GigEVision

Digital input/output	
Digital input, purpose	General purpose
Digital input	1× opto-isolated, "0" <2, "1" = 2–12 VDC.
Digital output, purpose	General purpose output to ext. device (programmatically set)
Digital output	1× opto-isolated, 2–40 VDC, max. 185 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	2–40 VDC, max. 200 mA
Digital I/O, connector type	12-pole M12 connector (shared with Digital synchronization and External power)
Synchronization in, purpose	Frame synchronization in to control camera
Synchronization in	1×, non-isolated
Synchronization in, type	LVC Buffer @3.3V, "0" <0.8 V, "1">2.0 V.
Synchronization out, purpose	Frame synchronization out to control another FLIR Ax5 camera
Synchronization out	1×, non-isolated
Synchronization out, type	LVC Buffer @ 3.3V, "0"=24 MA max, "1"= -24 mA max.
Digital synchronization, connector type	12-pole M12 connector (shared with Digital I/O and External power)



FLIR A15 f=9 mm (7.5 Hz)

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Power system	
External power operation	12/24 VDC, < 3.5 W nominal < 6.0 W absolute max.
External power, connector type	12-pole M12 connector (shared with Digital I/O and Digital Synchronization)
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F) NOTE: The operating temperature range assumes that the camera is mounted on the base support (included in the package) or a similar type of heatsink.
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> EN 61000-6-2 (Immunity) EN 61000-6-3 (Emission) FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 40 (IEC 60529) with base support mounted
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	0.200 kg (0.44 lb.)
Camera size (L × W × H)	106 × 40 × 43 mm (4.2 × 1.6 × 1.7 in.)
Tripod mounting	1 × UNC ¼"-20 (with Base support accessory, included in the delivery box)
Base mounting	4 × M3 thread mounting holes (bottom)
Housing material	Magnesium and aluminum

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> Infrared camera with lens Base support Focus adjustment tool Printed documentation
Packaging, weight	
Packaging, size	295 × 200 × 105 mm (11.6 × 7.9 × 4.1 in.)
EAN-13	7332558005644
UPC-12	845188005856
Country of origin	Sweden

Supplies & accessories:

- T951004ACC; Ethernet cable CAT6, 2 m/6.6 ft.
- T198349; Base support
- T198348; Cable kit Mains (UK,EU,US)
- T198392; Table stand kit
- T911183; Gigabit PoE injector 16 W, with multi-plugs
- T127605ACC; Cable M12 Pigtail
- T127606ACC; Cable M12 Sync
- T198342ACC; Focus adjustment tool
- T198594ACC; Transport case Ax5
- T199356; FLIR Ax5 accessory starter kit
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player



FLIR A15 f=9 mm (7.5 Hz)

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Website

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Customer support

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- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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Website

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General description	
<p>The FLIR A15 has features and functions that make it the natural choice for anyone who uses PC software to solve problems and for whom 160 × 128 pixel resolution is sufficient.</p> <p>Among its main features are GigE Vision and GenICam compliance, which makes it plug-and-play when used with software packages such as IMAQ Vision and Halcon.</p>	
<p>Key features:</p> <ul style="list-style-type: none"> • Very affordable. • Compact (40 mm × 43 mm × 106 mm). • GigE Vision and GenICam compliant. • GigE Vision lockable connector. • PoE (power over Ethernet). • 8-bit 160 × 128 pixel images streamed at 7.5 Hz, signal linear. • 14-bit 160 × 128 pixel images streamed at 7.5 Hz, signal and temperature linear. • Synchronization between cameras possible. • 1x+1x GPIO. • Compliant with any software that supports GenICam, including National Instruments IMAQ Vision, Stemmers Common Vision Blox, and COGNEX Vision Pro. 	
<p>Typical applications:</p> <ul style="list-style-type: none"> • Automation and thermal machine vision. • Entry level "high-speed" R&D. 	

Imaging and optical data	
IR resolution	160 × 128 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	48° × 39°
Focal length	9 mm (0.35 in.)
Spatial resolution (IFOV)	5.56 mrad
F-number	1.25
Image frequency	7.5 Hz
Focus	Fixed

Detector data	
Detector type	Focal plane array (FPA), uncooled VOX microbolometer
Spectral range	7.5–13 μm
Detector pitch	50 μm
Detector time constant	Typical 12 ms

Measurement	
Object temperature range	<ul style="list-style-type: none"> • -25 to +135°C (-13 to 275°F) • -40 to +550°C (-40 to +1022°F)
Accuracy	±5°C (±9°F) or ±5% of reading



FLIR A15 f=9 mm with SC kit (7.5 Hz)

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Website

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Customer support

<http://support.flir.com>

Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.5 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	GigE Vision ver. 1.2 Client API GenICam compliant
Ethernet, image streaming	8-bit monochrome @ 7.5 Hz <ul style="list-style-type: none"> • Signal linear/ DDE • Automatic/ Manual • Flip H&V 14-bit 160 × 128 pixels @ 7.5 Hz <ul style="list-style-type: none"> • Signal linear/ DDE • Temperature linear GigE Vision and GenICam compatible
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0 Power
Ethernet, protocols	TCP, UDP, ICMP, IGMP, DHCP, GigEVision

Digital input/output	
Digital input, purpose	General purpose
Digital input	1× opto-isolated, "0" <2, "1" = 2–12 VDC.
Digital output, purpose	General purpose output to ext. device (programmatically set)
Digital output	1× opto-isolated, 2–40 VDC, max. 185 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	2–40 VDC, max. 200 mA
Digital I/O, connector type	12-pole M12 connector (shared with Digital synchronization and External power)
Synchronization in, purpose	Frame synchronization in to control camera
Synchronization in	1×, non-isolated
Synchronization in, type	LVC Buffer @ 3.3V, "0" <0.8 V, "1">2.0 V.
Synchronization out, purpose	Frame synchronization out to control another FLIR Ax5 camera
Synchronization out	1×, non-isolated
Synchronization out, type	LVC Buffer @ 3.3V, "0"=24 MA max, "1"= -24 mA max.
Digital synchronization, connector type	12-pole M12 connector (shared with Digital I/O and External power)



FLIR A15 f=9 mm with SC kit (7.5 Hz)

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Power system	
External power operation	12/24 VDC, < 3.5 W nominal < 6.0 W absolute max.
External power, connector type	12-pole M12 connector (shared with Digital I/O and Digital Synchronization)
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F) NOTE: The operating temperature range assumes that the camera is mounted on the base support (included in the package) or a similar type of heatsink.
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none">• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 40 (IEC 60529) with base support mounted
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	0.200 kg (0.44 lb.)
Camera size (L × W × H)	106 × 40 × 43 mm (4.2 × 1.6 × 1.7 in.)
Tripod mounting	1 × UNC ¼"-20 (with Base support accessory, included in the delivery box)
Base mounting	4 × M3 thread mounting holes (bottom)
Housing material	Magnesium and aluminum

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Hard transport case• Infrared camera with lens• Base support• Cable tie (2 ea.)• Ethernet cable CAT-6, 2m/6.6 ft (2 ea.)• FLIR ResearchIR Standard 4• Focus adjustment tool• Gooseneck• Mains cable kit (UK,EU,US)• PoE Injector (power over Ethernet)• Printed documentation• Table stand
Packaging, weight	
Packaging, size	370 × 180 × 320 mm (14.6 × 7.1 × 12.6 in.)
EAN-13	7332558005651
UPC-12	845188005863
Country of origin	Sweden

Supplies & accessories:

- T951004ACC; Ethernet cable CAT6, 2 m/6.6 ft.
- T198349; Base support
- T198348; Cable kit Mains (UK,EU,US)
- T198392; Table stand kit
- T911183; Gigabit PoE injector 16 W, with multi-plugs



FLIR A15 f=9 mm with SC kit (7.5 Hz)

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Website

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Customer support

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- T127605ACC; Cable M12 Pigtail
- T127606ACC; Cable M12 Sync
- T198342ACC; Focus adjustment tool
- T198594ACC; Transport case Ax5
- T199356; FLIR Ax5 accessory starter kit
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

P/N: 73319-0101

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Website

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Customer support

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General description

The FLIR A35 has features and functions that make it the natural choice for anyone who uses PC software to solve problems and for whom 320 × 256 pixel resolution is sufficient.

Among its main features are GigE Vision and GenICam compliance, which makes it plug-and-play when used with software packages such as IMAQ Vision and Halcon.

Key features:

- Very affordable.
- Compact (40 mm × 43 mm × 106 mm).
- GigE Vision and GenICam compliant.
- GigE Vision lockable connector.
- PoE (power over Ethernet).
- 8-bit 320 × 256 pixel images streamed at 60 Hz, signal linear.
- 14-bit 320 × 256 pixel images streamed at 60 Hz, signal and temperature linear.
- High frame rates (60 Hz).
- Synchronization between cameras possible.
- 1x+1x GPIO.
- Compliant with any software that supports GenICam, including National Instruments IMAQ Vision, Stemmers Common Vision Blox, and COGNEX Vision Pro.

Typical applications:

- Automation and thermal machine vision.
- Entry level "high-speed" R&D.

Imaging and optical data

IR resolution	320 × 256 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	25° × 19°
Focal length	19 mm (0.75 in.)
Spatial resolution (IFOV)	1.32 mrad
F-number	1.25
Image frequency	60 Hz
Focus	Fixed

Detector data

Detector type	Focal plane array (FPA), uncooled VOX microbolometer
Spectral range	7.5–13 μm
Detector pitch	25 μm
Detector time constant	Typical 12 ms

Measurement

Object temperature range	<ul style="list-style-type: none"> • -25 to +135°C (-13 to 275°F) • -40 to +550°C (-40 to +1022°F)
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FLIR A35 f=19 mm

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Measurement	
Accuracy	±5°C (±9°F) or ±5% of reading

Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.5 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	GigE Vision ver. 1.2 Client API GenICam compliant
Ethernet, image streaming	8-bit monochrome @ 60 Hz <ul style="list-style-type: none"> • Signal linear/ DDE • Automatic/ Manual • Flip H&V 14-bit 320 × 256 pixels @ 60 Hz <ul style="list-style-type: none"> • Signal linear/ DDE • Temperature linear GigE Vision and GenICam compatible
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0 Power
Ethernet, protocols	TCP, UDP, ICMP, IGMP, DHCP, GigEVision

Digital input/output	
Digital input, purpose	General purpose
Digital input	1× opto-isolated, "0" <1.2 VDC, "1" = 2–25 VDC.
Digital output, purpose	General purpose output to ext. device (programmatically set)
Digital output	1× opto-isolated, 2–40 VDC, max. 185 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	2–40 VDC, max. 200 mA
Digital I/O, connector type	12-pole M12 connector (shared with Digital synchronization and External power)
Synchronization in, purpose	Frame synchronization in to control camera
Synchronization in	1×, non-isolated
Synchronization in, type	LVC Buffer @ 3.3V, "0" <0.8 V, "1">2.0 V.
Synchronization out, purpose	Frame synchronization out to control another FLIR Ax5 camera
Synchronization out	1×, non-isolated
Synchronization out, type	LVC Buffer @ 3.3V, "0"=24 MA max, "1"= -24 mA max.



FLIR A35 f=19 mm

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Digital input/output	
Digital synchronization, connector type	12-pole M12 connector (shared with Digital I/O and External power)

Power system	
External power operation	12/24 VDC, < 3.5 W nominal < 6.0 W absolute max.
External power, connector type	12-pole M12 connector (shared with Digital I/O and Digital Synchronization)
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F) NOTE: The operating temperature range assumes that the camera is mounted on the base support (included in the package) or a similar type of heatsink.
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none">• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 40 (IEC 60529) with base support mounted
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	0.200 kg (0.44 lb.)
Camera size (L × W × H)	106 × 40 × 43 mm (4.2 × 1.6 × 1.7 in.)
Tripod mounting	1 × UNC ¼"-20 (with Base support accessory, included in the delivery box)
Base mounting	4 × M3 thread mounting holes (bottom)
Housing material	Magnesium and aluminum

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Base support• Focus adjustment tool• Printed documentation
Packaging, weight	
Packaging, size	295 × 200 × 105 mm (11.6 × 7.9 × 4.1 in.)
EAN-13	7332558010587
UPC-12	845188011253
Country of origin	Sweden

Supplies & accessories:

- T951004ACC; Ethernet cable CAT6, 2 m/6.6 ft.
- T198349; Base support
- T198348; Cable kit Mains (UK,EU,US)
- T198392; Table stand kit
- T911183; Gigabit PoE injector 16 W, with multi-plugs
- T127605ACC; Cable M12 Pigtail
- T127606ACC; Cable M12 Sync



FLIR A35 f=19 mm

P/N: 73319-0101

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- T198594ACC; Transport case Ax5
- T199356; FLIR Ax5 accessory starter kit
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

P/N: 73309-0101

Revision

45747

Last modified

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General description	
The FLIR A35 has features and functions that make it the natural choice for anyone who uses PC software to solve problems and for whom 320 × 256 pixel resolution is sufficient.	
Among its main features are GigE Vision and GenICam compliance, which makes it plug-and-play when used with software packages such as IMAQ Vision and Halcon.	
Key features:	
<ul style="list-style-type: none"> • Very affordable. • Compact (40 mm × 43 mm × 106 mm). • GigE Vision and GenICam compliant. • GigE Vision lockable connector. • PoE (power over Ethernet). • 8-bit 320 × 256 pixel images streamed at 60 Hz, signal linear. • 14-bit 320 × 256 pixel images streamed at 60 Hz, signal and temperature linear. • High frame rates (60 Hz). • Synchronization between cameras possible. • 1x+1x GPIO. • Compliant with any software that supports GenICam, including National Instruments IMAQ Vision, Stemmers Common Vision Blox, and COGNEX Vision Pro. 	
Typical applications:	
<ul style="list-style-type: none"> • Automation and thermal machine vision. • Entry level "high-speed" R&D. 	

Imaging and optical data	
IR resolution	320 × 256 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	48° × 39°
Focal length	9 mm (0.35 in.)
Spatial resolution (IFOV)	2.78 mrad
F-number	1.25
Image frequency	60 Hz
Focus	Fixed

Detector data	
Detector type	Focal plane array (FPA), uncooled VOX microbolometer
Spectral range	7.5–13 μm
Detector pitch	25 μm
Detector time constant	Typical 12 ms

Measurement	
Object temperature range	<ul style="list-style-type: none"> • -25 to +135°C (-13 to 275°F) • -40 to +550°C (-40 to +1022°F)



FLIR A35 f=9 mm

P/N: 73309-0101

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Website

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Measurement	
Accuracy	±5°C (±9°F) or ±5% of reading

Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.5 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	GigE Vision ver. 1.2 Client API GenICam compliant
Ethernet, image streaming	8-bit monochrome @ 60 Hz <ul style="list-style-type: none"> • Signal linear/ DDE • Automatic/ Manual • Flip H&V 14-bit 320 × 256 pixels @ 60 Hz <ul style="list-style-type: none"> • Signal linear/ DDE • Temperature linear GigE Vision and GenICam compatible
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0 Power
Ethernet, protocols	TCP, UDP, ICMP, IGMP, DHCP, GigEVision

Digital input/output	
Digital input, purpose	General purpose
Digital input	1× opto-isolated, "0" <1.2 VDC, "1" = 2–25 VDC.
Digital output, purpose	General purpose output to ext. device (programmatically set)
Digital output	1× opto-isolated, 2–40 VDC, max. 185 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	2–40 VDC, max. 200 mA
Digital I/O, connector type	12-pole M12 connector (shared with Digital synchronization and External power)
Synchronization in, purpose	Frame synchronization in to control camera
Synchronization in	1×, non-isolated
Synchronization in, type	LVC Buffer @ 3.3V, "0" <0.8 V, "1">2.0 V.
Synchronization out, purpose	Frame synchronization out to control another FLIR Ax5 camera
Synchronization out	1×, non-isolated
Synchronization out, type	LVC Buffer @ 3.3V, "0"=24 MA max, "1"= -24 mA max.



FLIR A35 f=9 mm

P/N: 73309-0101

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Digital input/output	
Digital synchronization, connector type	12-pole M12 connector (shared with Digital I/O and External power)

Power system	
External power operation	12/24 VDC, < 3.5 W nominal < 6.0 W absolute max.
External power, connector type	12-pole M12 connector (shared with Digital I/O and Digital Synchronization)
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F) NOTE: The operating temperature range assumes that the camera is mounted on the base support (included in the package) or a similar type of heatsink.
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none">• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 40 (IEC 60529) with base support mounted
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	0.200 kg (0.44 lb.)
Camera size (L × W × H)	106 × 40 × 43 mm (4.2 × 1.6 × 1.7 in.)
Tripod mounting	1 × UNC ¼"-20 (with Base support accessory, included in the delivery box)
Base mounting	4 × M3 thread mounting holes (bottom)
Housing material	Magnesium and aluminum

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Base support• Focus adjustment tool• Printed documentation
Packaging, weight	
Packaging, size	295 × 200 × 105 mm (11.6 × 7.9 × 4.1 in.)
EAN-13	7332558010563
UPC-12	845188011239
Country of origin	Sweden

Supplies & accessories:

- T951004ACC; Ethernet cable CAT6, 2 m/6.6 ft.
- T198349; Base support
- T198348; Cable kit Mains (UK,EU,US)
- T198392; Table stand kit
- T911183; Gigabit PoE injector 16 W, with multi-plugs
- T127605ACC; Cable M12 Pigtail
- T127606ACC; Cable M12 Sync



FLIR A35 f=9 mm

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- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

P/N: 83225-0101

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Website

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General description	
<p>The FLIR A35 has features and functions that make it the natural choice for anyone who uses PC software to solve problems and for whom 320 × 256 pixel resolution is sufficient.</p> <p>Among its main features are GigE Vision and GenICam compliance, which makes it plug-and-play when used with software packages such as IMAQ Vision and Halcon.</p>	
<p>Key features:</p> <ul style="list-style-type: none"> • Very affordable. • Compact • GigE Vision and GenICam compliant. • GigE Vision lockable connector. • PoE (power over Ethernet). • 8-bit 320 × 256 pixel images streamed at 60 Hz, signal linear. • 14-bit 320 × 256 pixel images streamed at 60 Hz, signal and temperature linear. • High frame rates (60 Hz). • Synchronization between cameras possible. • 1x+1x GPIO. • Compliant with any software that supports GenICam, including National Instruments IMAQ Vision, Stemmers Common Vision Blox, and COGNEX Vision Pro. 	
<p>Typical applications:</p> <ul style="list-style-type: none"> • Automation and thermal machine vision. • Entry level "high-speed" R&D. 	

Imaging and optical data	
IR resolution	320 × 256 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	13° × 10°
Minimum focus distance	30 cm (12 in.)
Focal length	25 mm (0.98 in.)
Spatial resolution (IFOV)	0.680 mrad
F-number	1.1
Image frequency	60 Hz
Focus	Fixed

Detector data	
Detector type	Focal plane array (FPA), uncooled VOX microbolometer
Spectral range	7.5–13 μm
Detector pitch	17 μm
Detector time constant	Typical 12 ms

Measurement	
Object temperature range	<ul style="list-style-type: none"> • -25 to +100°C (-13 to 212°F) • -40 to +550°C (-40 to +1022°F)
Accuracy	±5°C (±9°F) or ±5% of reading



FLIR A35 FOV 13 (60 Hz, ver. 2017)

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Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.5 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	GigE Vision ver. 1.2 Client API GenICam compliant
Ethernet, image streaming	8-bit monochrome @ 60 Hz <ul style="list-style-type: none"> • Signal linear/ DDE • Automatic/ Manual • Flip H&V 14-bit 320 × 256 pixels @ 60 Hz <ul style="list-style-type: none"> • Signal linear/ DDE • Temperature linear GigE Vision and GenICam compatible
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0 Power
Ethernet, protocols	TCP, UDP, ICMP, IGMP, DHCP, GigEVision

Digital input/output	
Digital input, purpose	General purpose
Digital input	1× opto-isolated, "0" <1.2 VDC, "1" = 2–25 VDC.
Digital output, purpose	General purpose output to ext. device (programmatically set)
Digital output	1× opto-isolated, 2–40 VDC, max. 185 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	2–40 VDC, max. 200 mA
Digital I/O, connector type	12-pole M12 connector (shared with Digital synchronization and External power)
Synchronization in, purpose	Frame synchronization in to control camera
Synchronization in	1×, non-isolated
Synchronization in, type	LVC Buffer @3.3V, "0" <0.8 V, "1">2.0 V.
Synchronization out, purpose	Frame synchronization out to control another FLIR Ax5 camera
Synchronization out	1×, non-isolated
Synchronization out, type	LVC Buffer @ 3.3V, "0"=24 MA max, "1"= -24 mA max.
Digital synchronization, connector type	12-pole M12 connector (shared with Digital I/O and External power)



FLIR A35 FOV 13 (60 Hz, ver. 2017)

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Power system	
External power operation	12/24 VDC, < 3.5 W nominal < 6.0 W absolute max.
External power, connector type	12-pole M12 connector (shared with Digital I/O and Digital Synchronization)
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	–15°C to +60°C (+5°F to +140°F) NOTE: The operating temperature range assumes that the camera is mounted on the base support (included in the package) or a similar type of heatsink.
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none">• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 40 (IEC 60529) with base support mounted
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC60068-2-6) and MIL-STD810G

Physical data	
Camera size (L × W × H)	107.8 × 49.6 × 46.6 mm (4.2 × 1.9 × 1.8 in.)
Tripod mounting	1 × UNC ¼"-20 (with Base support accessory, included in the delivery box)
Base mounting	4 × M3 thread mounting holes (bottom)
Housing material	Magnesium and aluminum

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Base support• Printed documentation
EAN-13	7332558013113
UPC-12	845188014872
Country of origin	Sweden

Supplies & accessories:

- T951004ACC; Ethernet cable CAT6, 2 m/6.6 ft.
- T198349; Base support
- T198348; Cable kit Mains (UK,EU,US)
- T127605ACC; Cable M12 Pigtail
- T127606ACC; Cable M12 Sync
- T199356; FLIR Ax5 accessory starter kit
- T198342ACC; Focus adjustment tool
- T911183; Gigabit PoE injector 16 W, with multi-plugs
- T198392; Table stand kit
- T198594ACC; Transport case Ax5
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

P/N: 83213-0102

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General description	
<p>The FLIR A35 has features and functions that make it the natural choice for anyone who uses PC software to solve problems and for whom 320 × 256 pixel resolution is sufficient.</p> <p>Among its main features are GigE Vision and GenICam compliance, which makes it plug-and-play when used with software packages such as IMAQ Vision and Halcon.</p>	
<p>Key features:</p> <ul style="list-style-type: none"> • Very affordable. • Compact. • GigE Vision and GenICam compliant. • GigE Vision lockable connector. • PoE (power over Ethernet). • 8-bit 320 × 256 pixel images streamed at 60 Hz, signal linear. • 14-bit 320 × 256 pixel images streamed at 60 Hz, signal and temperature linear. • High frame rates (60 Hz). • Synchronization between cameras possible. • 1x+1x GPIO. • Compliant with any software that supports GenICam, including National Instruments IMAQ Vision, Stemmers Common Vision Blox, and COGNEX Vision Pro. 	
<p>Typical applications:</p> <ul style="list-style-type: none"> • Automation and thermal machine vision. • Entry level "high-speed" R&D. 	
Imaging and optical data	
IR resolution	320 × 256 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	25° × 19°
Minimum focus distance	7.6 cm (3.0 in.)
Focal length	13 mm (0.51 in.)
Spatial resolution (IFOV)	1.308 mrad
F-number	1.25
Image frequency	60 Hz
Focus	Fixed
Detector data	
Detector type	Focal plane array (FPA), uncooled VOX microbolometer
Spectral range	7.5–13 μm
Detector pitch	17 μm
Detector time constant	Typical 12 ms
Measurement	
Object temperature range	<ul style="list-style-type: none"> • -25 to +100°C (-13 to 212°F) • -40 to +550°C (-40 to +1022°F)



FLIR A35 FOV 25 (60 Hz, ver. 2017)

P/N: 83213-0102

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Measurement	
Accuracy	±5°C (±9°F) or ±5% of reading

Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.5 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	GigE Vision ver. 1.2 Client API GenICam compliant
Ethernet, image streaming	8-bit monochrome @ 60 Hz <ul style="list-style-type: none"> • Signal linear/ DDE • Automatic/ Manual • Flip H&V 14-bit 320 × 256 pixels @ 60 Hz <ul style="list-style-type: none"> • Signal linear/ DDE • Temperature linear GigE Vision and GenICam compatible
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0 Power
Ethernet, protocols	TCP, UDP, ICMP, IGMP, DHCP, GigEVision

Digital input/output	
Digital input, purpose	General purpose
Digital input	1× opto-isolated, "0" <1.2 VDC, "1" = 2–25 VDC.
Digital output, purpose	General purpose output to ext. device (programmatically set)
Digital output	1× opto-isolated, 2–40 VDC, max. 185 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	2–40 VDC, max. 200 mA
Digital I/O, connector type	12-pole M12 connector (shared with Digital synchronization and External power)
Synchronization in, purpose	Frame synchronization in to control camera
Synchronization in	1×, non-isolated
Synchronization in, type	LVC Buffer @ 3.3V, "0" <0.8 V, "1">2.0 V.
Synchronization out, purpose	Frame synchronization out to control another FLIR Ax5 camera
Synchronization out	1×, non-isolated
Synchronization out, type	LVC Buffer @ 3.3V, "0"=24 MA max, "1"= -24 mA max.



FLIR A35 FOV 25 (60 Hz, ver. 2017)

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Website

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Customer support

<http://support.flir.com>

Digital input/output	
Digital synchronization, connector type	12-pole M12 connector (shared with Digital I/O and External power)

Power system	
External power operation	12/24 VDC, < 3.5 W nominal < 6.0 W absolute max.
External power, connector type	12-pole M12 connector (shared with Digital I/O and Digital Synchronization)
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	–15°C to +60°C (+5°F to +140°F) NOTE: The operating temperature range assumes that the camera is mounted on the base support (included in the package) or a similar type of heatsink.
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none">• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 40 (IEC 60529) with base support mounted
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC60068-2-6) and MIL-STD810G

Physical data	
Camera size (L x W x H)	104.1 x 49.6 x 46.6 mm (4.1 x 1.9 x 1.8 in.)
Tripod mounting	1 x UNC ¼"-20 (with Base support accessory, included in the delivery box)
Base mounting	4 x M3 thread mounting holes (bottom)
Housing material	Magnesium and aluminum

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Base support• Focus adjustment tool• Printed documentation
EAN-13	7332558013090
UPC-12	845188014858
Country of origin	Sweden

Supplies & accessories:

- T951004ACC; Ethernet cable CAT6, 2 m/6.6 ft.
- T198349; Base support
- T198348; Cable kit Mains (UK,EU,US)
- T127605ACC; Cable M12 Pigtail
- T127606ACC; Cable M12 Sync
- T199356; FLIR Ax5 accessory starter kit
- T198342ACC; Focus adjustment tool
- T911183; Gigabit PoE injector 16 W, with multi-plugs
- T198392; Table stand kit
- T198594ACC; Transport case Ax5
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- T199233; FLIR Atlas SDK for .NET



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Website

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Customer support

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- T199234; FLIR Atlas SDK for MATLAB

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
<p>The FLIR A35 has features and functions that make it the natural choice for anyone who uses PC software to solve problems and for whom 320 × 256 pixel resolution is sufficient.</p> <p>Among its main features are GigE Vision and GenICam compliance, which makes it plug-and-play when used with software packages such as IMAQ Vision and Halcon.</p>	
<p>Key features:</p> <ul style="list-style-type: none"> • Very affordable. • Compact • GigE Vision and GenICam compliant. • GigE Vision lockable connector. • PoE (power over Ethernet). • 8-bit 320 × 256 pixel images streamed at 60 Hz, signal linear. • 14-bit 320 × 256 pixel images streamed at 60 Hz, signal and temperature linear. • High frame rates (60 Hz). • Synchronization between cameras possible. • 1x+1x GPIO. • Compliant with any software that supports GenICam, including National Instruments IMAQ Vision, Stemmers Common Vision Blox, and COGNEX Vision Pro. 	
<p>Typical applications:</p> <ul style="list-style-type: none"> • Automation and thermal machine vision. • Entry level "high-speed" R&D. 	
Imaging and optical data	
IR resolution	320 × 256 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	45° × 35°
Minimum focus distance	2.5 cm (0.98 in.)
Focal length	7.5 mm (0.30 in.)
Spatial resolution (IFOV)	2.267 mrad
F-number	1.4
Image frequency	60 Hz
Focus	Fixed
Detector data	
Detector type	Focal plane array (FPA), uncooled VOX microbolometer
Spectral range	7.5–13 μm
Detector pitch	17 μm
Detector time constant	Typical 12 ms
Measurement	
Object temperature range	<ul style="list-style-type: none"> • -25 to +100°C (-13 to 212°F) • -40 to +550°C (-40 to +1022°F)



FLIR A35 FOV 45 (60 Hz, ver. 2017)

P/N: 83207-0102

Revision

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Website

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Measurement	
Accuracy	±5°C (±9°F) or ±5% of reading

Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.5 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	GigE Vision ver. 1.2 Client API GenICam compliant
Ethernet, image streaming	8-bit monochrome @ 60 Hz <ul style="list-style-type: none"> • Signal linear/ DDE • Automatic/ Manual • Flip H&V 14-bit 320 × 256 pixels @ 60 Hz <ul style="list-style-type: none"> • Signal linear/ DDE • Temperature linear GigE Vision and GenICam compatible
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0 Power
Ethernet, protocols	TCP, UDP, ICMP, IGMP, DHCP, GigEVision

Digital input/output	
Digital input, purpose	General purpose
Digital input	1× opto-isolated, "0" <1.2 VDC, "1" = 2–25 VDC.
Digital output, purpose	General purpose output to ext. device (programmatically set)
Digital output	1× opto-isolated, 2–40 VDC, max. 185 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	2–40 VDC, max. 200 mA
Digital I/O, connector type	12-pole M12 connector (shared with Digital synchronization and External power)
Synchronization in, purpose	Frame synchronization in to control camera
Synchronization in	1×, non-isolated
Synchronization in, type	LVC Buffer @ 3.3V, "0" <0.8 V, "1">2.0 V.
Synchronization out, purpose	Frame synchronization out to control another FLIR Ax5 camera
Synchronization out	1×, non-isolated
Synchronization out, type	LVC Buffer @ 3.3V, "0"=24 MA max, "1"= -24 mA max.



FLIR A35 FOV 45 (60 Hz, ver. 2017)

P/N: 83207-0102

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Digital input/output	
Digital synchronization, connector type	12-pole M12 connector (shared with Digital I/O and External power)

Power system	
External power operation	12/24 VDC, < 3.5 W nominal < 6.0 W absolute max.
External power, connector type	12-pole M12 connector (shared with Digital I/O and Digital Synchronization)
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	–15°C to +60°C (+5°F to +140°F) NOTE: The operating temperature range assumes that the camera is mounted on the base support (included in the package) or a similar type of heatsink.
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none">• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 40 (IEC 60529) with base support mounted
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC60068-2-6) and MIL-STD810G

Physical data	
Camera size (L x W x H)	104.1 x 49.6 x 46.6 mm (4.1 x 1.9 x 1.8 in.)
Tripod mounting	1 x UNC ¼"-20 (with Base support accessory, included in the delivery box)
Base mounting	4 x M3 thread mounting holes (bottom)
Housing material	Magnesium and aluminum

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Base support• Focus adjustment tool• Printed documentation
EAN-13	7332558013120
UPC-12	845188014865
Country of origin	Sweden

Supplies & accessories:

- T951004ACC; Ethernet cable CAT6, 2 m/6.6 ft.
- T198349; Base support
- T198348; Cable kit Mains (UK,EU,US)
- T127605ACC; Cable M12 Pigtail
- T127606ACC; Cable M12 Sync
- T199356; FLIR Ax5 accessory starter kit
- T198342ACC; Focus adjustment tool
- T911183; Gigabit PoE injector 16 W, with multi-plugs
- T198392; Table stand kit
- T198594ACC; Transport case Ax5
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- T199233; FLIR Atlas SDK for .NET



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- T199234; FLIR Atlas SDK for MATLAB

P/N: 83250-0101

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General description	
<p>The FLIR A35 has features and functions that make it the natural choice for anyone who uses PC software to solve problems and for whom 320 × 256 pixel resolution is sufficient.</p> <p>Among its main features are GigE Vision and GenICam compliance, which makes it plug-and-play when used with software packages such as IMAQ Vision and Halcon.</p>	
<p>Key features:</p> <ul style="list-style-type: none"> • Very affordable. • Compact • GigE Vision and GenICam compliant. • GigE Vision lockable connector. • PoE (power over Ethernet). • 8-bit 320 × 256 pixel images streamed at 60 Hz, signal linear. • 14-bit 320 × 256 pixel images streamed at 60 Hz, signal and temperature linear. • High frame rates (60 Hz). • Synchronization between cameras possible. • 1x+1x GPIO. • Compliant with any software that supports GenICam, including National Instruments IMAQ Vision, Stemmers Common Vision Blox, and COGNEX Vision Pro. 	
<p>Typical applications:</p> <ul style="list-style-type: none"> • Automation and thermal machine vision. • Entry level "high-speed" R&D. 	

Imaging and optical data	
IR resolution	320 × 256 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	6.5° × 5°
Minimum focus distance	1.5 m (59 in.)
Focal length	50 mm (1.97 in.)
Spatial resolution (IFOV)	0.340 mrad
F-number	1.2
Image frequency	60 Hz
Focus	Fixed

Detector data	
Detector type	Focal plane array (FPA), uncooled VOX microbolometer
Spectral range	7.5–13 μm
Detector pitch	17 μm
Detector time constant	Typical 12 ms

Measurement	
Object temperature range	<ul style="list-style-type: none"> • -25 to +100°C (-13 to 212°F) • -40 to +550°C (-40 to +1022°F)
Accuracy	±5°C (±9°F) or ±5% of reading



FLIR A35 FOV 6.5 (60 Hz, ver. 2017)

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Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.5 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	GigE Vision ver. 1.2 Client API GenICam compliant
Ethernet, image streaming	8-bit monochrome @ 60 Hz <ul style="list-style-type: none">• Signal linear/ DDE• Automatic/ Manual• Flip H&V 14-bit 320 × 256 pixels @ 60 Hz <ul style="list-style-type: none">• Signal linear/ DDE• Temperature linear GigE Vision and GenICam compatible
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0 Power
Ethernet, protocols	TCP, UDP, ICMP, IGMP, DHCP, GigEVision

Digital input/output	
Digital input, purpose	General purpose
Digital input	1× opto-isolated, "0" <1.2 VDC, "1" = 2–25 VDC.
Digital output, purpose	General purpose output to ext. device (programmatically set)
Digital output	1× opto-isolated, 2–40 VDC, max. 185 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	2–40 VDC, max. 200 mA
Digital I/O, connector type	12-pole M12 connector (shared with Digital synchronization and External power)
Synchronization in, purpose	Frame synchronization in to control camera
Synchronization in	1×, non-isolated
Synchronization in, type	LVC Buffer @ 3.3V, "0" <0.8 V, "1" >2.0 V.
Synchronization out, purpose	Frame synchronization out to control another FLIR Ax5 camera
Synchronization out	1×, non-isolated
Synchronization out, type	LVC Buffer @ 3.3V, "0" = 24 MA max, "1" = -24 mA max.
Digital synchronization, connector type	12-pole M12 connector (shared with Digital I/O and External power)



FLIR A35 FOV 6.5 (60 Hz, ver. 2017)

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Power system	
External power operation	12/24 VDC, < 3.5 W nominal < 6.0 W absolute max.
External power, connector type	12-pole M12 connector (shared with Digital I/O and Digital Synchronization)
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	–15°C to +60°C (+5°F to +140°F) NOTE: The operating temperature range assumes that the camera is mounted on the base support (included in the package) or a similar type of heatsink.
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none">• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 40 (IEC 60529) with base support mounted
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC60068-2-6) and MIL-STD810G

Physical data	
Camera size (L × W × H)	141.1 × 58.4 × 58.4 mm (5.7 × 2.3 × 2.3 in.)
Tripod mounting	1 × UNC ¼"-20 (with Base support accessory, included in the delivery box)
Base mounting	4 × M3 thread mounting holes (bottom)
Housing material	Magnesium and aluminum

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Base support• Printed documentation
EAN-13	7332558014431
UPC-12	845188016494
Country of origin	Sweden

Supplies & accessories:

- T951004ACC; Ethernet cable CAT6, 2 m/6.6 ft.
- T198349; Base support
- T198348; Cable kit Mains (UK,EU,US)
- T127605ACC; Cable M12 Pigtail
- T127606ACC; Cable M12 Sync
- T199356; FLIR Ax5 accessory starter kit
- T198342ACC; Focus adjustment tool
- T911183; Gigabit PoE injector 16 W, with multi-plugs
- T198392; Table stand kit
- T198594ACC; Transport case Ax5
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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Website

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Customer support

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General description	
<p>The FLIR A35 has features and functions that make it the natural choice for anyone who uses PC software to solve problems and for whom 370 × 296 pixel resolution is sufficient.</p> <p>Among its main features are GigE Vision and GenICam compliance, which makes it plug-and-play when used with software packages such as IMAQ Vision and Halcon.</p>	
Key features:	
<ul style="list-style-type: none"> • Very affordable. • Compact. • GigE Vision and GenICam compliant. • GigE Vision lockable connector. • PoE (power over Ethernet). • 8-bit 370 × 296 pixel images streamed at 30 Hz, signal linear. • 14-bit 370 × 296 pixel images streamed at 30 Hz, signal and temperature linear. • High frame rates (30 Hz). • Synchronization between cameras possible. • 1x+1x GPIO. • Compliant with any software that supports GenICam, including National Instruments IMAQ Vision, Stemmers Common Vision Blox, and COGNEX Vision Pro. 	
Typical applications:	
<ul style="list-style-type: none"> • Automation and thermal machine vision. • Entry level "high-speed" R&D. 	

Imaging and optical data	
IR resolution	320 × 256 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	69° × 56°
Minimum focus distance	3.2 cm (1.6 in.)
Focal length	9 mm (0.35 in.)
Spatial resolution (IFOV)	3.8 mrad
F-number	1.4
Image frequency	30 Hz
Focus	Fixed

Detector data	
Detector type	Focal plane array (FPA), uncooled VOX microbolometer
Spectral range	7.5–13 μm
Detector pitch	34 μm
Detector time constant	Typical 12 ms

Measurement	
Object temperature range	<ul style="list-style-type: none"> • -25 to +135°C (-13 to 275°F) • -40 to +550°C (-40 to +1022°F)



FLIR A35 FOV 69 (30 Hz, ver. 2017)

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Website

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Customer support

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Measurement	
Accuracy	±5°C (±9°F) or ±5% of reading

Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.5 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	GigE Vision ver. 1.2 Client API GenICam compliant
Ethernet, image streaming	8-bit monochrome @ 30 Hz <ul style="list-style-type: none"> • Signal linear/ DDE • Automatic/ Manual • Flip H&V 14-bit 370 × 296 pixels @ 30 Hz <ul style="list-style-type: none"> • Signal linear/ DDE • Temperature linear GigE Vision and GenICam compatible
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0 Power
Ethernet, protocols	TCP, UDP, ICMP, IGMP, DHCP, GigEVision

Digital input/output	
Digital input, purpose	General purpose
Digital input	1× opto-isolated, "0" <1.2 VDC, "1" = 2–25 VDC.
Digital output, purpose	General purpose output to ext. device (programmatically set)
Digital output	1× opto-isolated, 2–40 VDC, max. 185 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	2–40 VDC, max. 200 mA
Digital I/O, connector type	12-pole M12 connector (shared with Digital synchronization and External power)
Synchronization in, purpose	Frame synchronization in to control camera
Synchronization in	1×, non-isolated
Synchronization in, type	LVC Buffer @ 3.3V, "0" <0.8 V, "1">2.0 V.
Synchronization out, purpose	Frame synchronization out to control another FLIR Ax5 camera
Synchronization out	1×, non-isolated
Synchronization out, type	LVC Buffer @ 3.3V, "0"=24 MA max, "1"= -24 mA max.



FLIR A35 FOV 69 (30 Hz, ver. 2017)

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Digital input/output	
Digital synchronization, connector type	12-pole M12 connector (shared with Digital I/O and External power)

Power system	
External power operation	12/24 VDC, < 3.5 W nominal < 6.0 W absolute max.
External power, connector type	12-pole M12 connector (shared with Digital I/O and Digital Synchronization)
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	–15°C to +60°C (+5°F to +140°F) <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> NOTE: The operating temperature range assumes that the camera is mounted on the base support (included in the package) or a similar type of heatsink. </div>
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> • EN 61000-6-2 (Immunity) • EN 61000-6-3 (Emission) • FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 40 (IEC 60529) with base support mounted
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC60068-2-6) and MIL-STD810G

Physical data	
Camera size (L x W x H)	104.1 x 49.6 x 46.6 mm (4.1 x 1.9 x 1.8 in.)
Tripod mounting	1 x UNC ¼"-20 (with Base support accessory, included in the delivery box)
Base mounting	4 x M3 thread mounting holes (bottom)
Housing material	Magnesium and aluminum

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Infrared camera with lens • Base support • Focus adjustment tool • Printed documentation
EAN-13	7332558013106
UPC-12	845188014889
Country of origin	Sweden

Supplies & accessories:

- T951004ACC; Ethernet cable CAT6, 2 m/6.6 ft.
- T198349; Base support
- T198348; Cable kit Mains (UK,EU,US)
- T127605ACC; Cable M12 Pigtail
- T127606ACC; Cable M12 Sync
- T199356; FLIR Ax5 accessory starter kit
- T198342ACC; Focus adjustment tool
- T911183; Gigabit PoE injector 16 W, with multi-plugs
- T198392; Table stand kit
- T198594ACC; Transport case Ax5
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- T199233; FLIR Atlas SDK for .NET



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- T199234; FLIR Atlas SDK for MATLAB

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Website

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Customer support

<http://support.flir.com>



General description

The FLIR A35 has features and functions that make it the natural choice for anyone who uses PC software to solve problems and for whom 320 × 256 pixel resolution is sufficient.

Among its main features are GigE Vision and GenICam compliance, which makes it plug-and-play when used with software packages such as IMAQ Vision and Halcon.

Key features:

- Very affordable.
- Compact (40 mm × 43 mm × 106 mm).
- GigE Vision and GenICam compliant.
- GigE Vision lockable connector.
- PoE (power over Ethernet).
- 8-bit 320 × 256 pixel images streamed at 60 Hz, signal linear.
- 14-bit 320 × 256 pixel images streamed at 60 Hz, signal and temperature linear.
- High frame rates (60 Hz).
- Synchronization between cameras possible.
- 1x+1x GPIO.
- Compliant with any software that supports GenICam, including National Instruments IMAQ Vision, Stemmers Common Vision Blox, and COGNEX Vision Pro.

Typical applications:

- Automation and thermal machine vision.
- Entry level "high-speed" R&D.

Imaging and optical data

IR resolution	320 × 256 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	48° × 39°
Minimum focus distance	3.2 cm (1.6 in.)
Focal length	9 mm (0.35 in.)
Spatial resolution (IFOV)	2.78 mrad
F-number	1.25
Image frequency	60 Hz
Focus	Fixed

Detector data

Detector type	Focal plane array (FPA), uncooled VOX microbolometer
Spectral range	7.5–13 μm
Detector pitch	25 μm
Detector time constant	Typical 12 ms



FLIR A35 f=9 mm with SC kit

P/N: 73309-0102

Revision

47931

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2018-03-06 10:06 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Measurement	
Object temperature range	<ul style="list-style-type: none"> -25 to +135°C (-13 to 275°F) -40 to +550°C (-40 to +1022°F)
Accuracy	±5°C (±9°F) or ±5% of reading

Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.5 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	GigE Vision ver. 1.2 Client API GenICam compliant
Ethernet, image streaming	8-bit monochrome @ 60 Hz <ul style="list-style-type: none"> Signal linear/ DDE Automatic/ Manual Flip H&V 14-bit 320 × 256 pixels @ 60 Hz <ul style="list-style-type: none"> Signal linear/ DDE Temperature linear GigE Vision and GenICam compatible
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0 Power
Ethernet, protocols	TCP, UDP, ICMP, IGMP, DHCP, GigEVision

Digital input/output	
Digital input, purpose	General purpose
Digital input	1× opto-isolated, "0" <1.2 VDC, "1" = 2–25 VDC.
Digital output, purpose	General purpose output to ext. device (programmatically set)
Digital output	1× opto-isolated, 2–40 VDC, max. 185 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	2–40 VDC, max. 200 mA
Digital I/O, connector type	12-pole M12 connector (shared with Digital synchronization and External power)
Synchronization in, purpose	Frame synchronization in to control camera
Synchronization in	1×, non-isolated
Synchronization in, type	LVC Buffer @3.3V, "0" <0.8 V, "1">2.0 V.
Synchronization out, purpose	Frame synchronization out to control another FLIR Ax5 camera
Synchronization out	1×, non-isolated



FLIR A35 f=9 mm with SC kit

P/N: 73309-0102

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Website

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Digital input/output	
Synchronization out, type	LVC Buffer @ 3.3V, "0"=24 MA max, "1"= -24 mA max.
Digital synchronization, connector type	12-pole M12 connector (shared with Digital I/O and External power)

Power system	
External power operation	12/24 VDC, < 3.5 W nominal < 6.0 W absolute max.
External power, connector type	12-pole M12 connector (shared with Digital I/O and Digital Synchronization)
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	-15°C to +50°C (+5°F to +122°F) NOTE: The operating temperature range assumes that the camera is mounted on the base support (included in the package) or a similar type of heatsink.
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none">• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 40 (IEC 60529) with base support mounted
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	0.200 kg (0.44 lb.)
Camera size (L x W x H)	106 x 40 x 43 mm (4.2 x 1.6 x 1.7 in.)
Tripod mounting	1 x UNC ¼"-20 (with Base support accessory, included in the delivery box)
Base mounting	4 x M3 thread mounting holes (bottom)
Housing material	Magnesium and aluminum

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Hard transport case• Infrared camera with lens• Base support• Cable tie (2 ea.)• Ethernet cable CAT-6, 2m/6.6 ft (2 ea.)• FLIR ResearchIR Standard 4• Focus adjustment tool• Gooseneck• Mains cable kit (UK,EU,US)• PoE Injector (power over Ethernet)• Printed documentation• Table stand
Packaging, weight	
Packaging, size	370 x 180 x 320 mm (14.6 x 7.1 x 12.6 in.)
EAN-13	7332558010570
UPC-12	845188011246



FLIR A35 f=9 mm with SC kit

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Shipping information	
Country of origin	Sweden

Supplies & accessories:

- T951004ACC; Ethernet cable CAT6, 2 m/6.6 ft.
- T198349; Base support
- T198348; Cable kit Mains (UK,EU,US)
- T127605ACC; Cable M12 Pigtail
- T127606ACC; Cable M12 Sync
- T199356; FLIR Ax5 accessory starter kit
- T911183; Gigabit PoE injector 16 W, with multi-plugs
- T198392; Table stand kit
- T198594ACC; Transport case Ax5
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

P/N: 62205-0101

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Website

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General description	
<p>The FLIR A5 has features and functions that make it the natural choice for anyone who uses PC software to solve problems and for whom 80 × 64 pixel resolution is sufficient.</p> <p>Among its main features are GigE Vision and GenICam compliance, which makes it plug-and-play when used with software packages such as IMAQ Vision and Halcon.</p>	
Key features:	
<ul style="list-style-type: none"> • Very affordable. • Compact (40 mm × 43 mm × 106 mm). • GigE Vision and GenICam compliant. • GigE Vision lockable connector. • PoE (power over Ethernet). • 8-bit 80 × 64 pixel images streamed at 60 Hz, signal linear. • 14-bit 80 × 64 pixel images streamed at 60 Hz, signal and temperature linear. • High frame rates (60 Hz). • Synchronization between cameras possible. • 1x+1x GPIO. • Compliant with any software that supports GenICam, including National Instruments IMAQ Vision, Stemmers Common Vision Blox, and COGNEX Vision Pro. 	
Typical applications:	
<ul style="list-style-type: none"> • Automation and thermal machine vision. • Entry level "high-speed" R&D. 	

Imaging and optical data	
IR resolution	80 × 64 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	44° × 36°
Focal length	5 mm (0.20 in.)
Spatial resolution (IFOV)	10.0 mrad
F-number	1.25
Image frequency	60 Hz
Focus	Fixed

Detector data	
Detector type	Focal plane array (FPA), uncooled VOX microbolometer
Spectral range	7.5–13 μm
Detector pitch	50 μm
Detector time constant	Typical 12 ms

Measurement	
Object temperature range	<ul style="list-style-type: none"> • -25 to +135°C (-13 to 275°F) • -40 to +550°C (-40 to +1022°F)



FLIR A5 f=5 mm

P/N: 62205-0101

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Website

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Measurement	
Accuracy	±5°C (±9°F) or ±5% of reading

Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.5 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	GigE Vision ver. 1.2 Client API GenICam compliant
Ethernet, image streaming	8-bit monochrome @ 60 Hz <ul style="list-style-type: none"> • Signal linear/ DDE • Automatic/ Manual • Flip H&V 14-bit 80 × 64 pixels @ 60 Hz <ul style="list-style-type: none"> • Signal linear/ DDE • Temperature linear GigE Vision and GenICam compatible
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0 Power
Ethernet, protocols	TCP, UDP, ICMP, IGMP, DHCP, GigEVision

Digital input/output	
Digital input, purpose	General purpose
Digital input	1× opto-isolated, "0" <2, "1" = 2–12 VDC.
Digital output, purpose	General purpose output to ext. device (programmatically set)
Digital output	1× opto-isolated, 2–40 VDC, max. 185 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	2–40 VDC, max. 200 mA
Digital I/O, connector type	12-pole M12 connector (shared with Digital synchronization and External power)
Synchronization in, purpose	Frame synchronization in to control camera
Synchronization in	1×, non-isolated
Synchronization in, type	LVC Buffer @ 3.3V, "0" <0.8 V, "1">2.0 V.
Synchronization out, purpose	Frame synchronization out to control another FLIR Ax5 camera
Synchronization out	1×, non-isolated
Synchronization out, type	LVC Buffer @ 3.3V, "0"=24 MA max, "1"= -24 mA max.



FLIR A5 f=5 mm

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Digital input/output	
Digital synchronization, connector type	12-pole M12 connector (shared with Digital I/O and External power)

Power system	
External power operation	12/24 VDC, < 3.5 W nominal < 6.0 W absolute max.
External power, connector type	12-pole M12 connector (shared with Digital I/O and Digital Synchronization)
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F) NOTE: The operating temperature range assumes that the camera is mounted on the base support (included in the package) or a similar type of heatsink.
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none">• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 40 (IEC 60529) with base support mounted
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	0.200 kg (0.44 lb.)
Camera size (L × W × H)	106 × 40 × 43 mm (4.2 × 1.6 × 1.7 in.)
Tripod mounting	1 × UNC ¼"-20 (with Base support accessory, included in the delivery box)
Base mounting	4 × M3 thread mounting holes (bottom)
Housing material	Magnesium and aluminum

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Base support• Focus adjustment tool• Printed documentation
Packaging, weight	
Packaging, size	295 × 200 × 105 mm (11.6 × 7.9 × 4.1 in.)
EAN-13	7332558003930 4743254000636 (Estonia plant)
UPC-12	845188003586
Country of origin	Sweden

Supplies & accessories:

- T951004ACC; Ethernet cable CAT6, 2 m/6.6 ft.
- T198349; Base support
- T198348; Cable kit Mains (UK,EU,US)
- T198392; Table stand kit
- T911183; Gigabit PoE injector 16 W, with multi-plugs



FLIR A5 f=5 mm

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- T127605ACC; Cable M12 Pigtail
- T127606ACC; Cable M12 Sync
- T198342ACC; Focus adjustment tool
- T198594ACC; Transport case Ax5
- T199356; FLIR Ax5 accessory starter kit
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

P/N: 64205-0101

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Website

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Customer support

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General description

The FLIR A5 has features and functions that make it the natural choice for anyone who uses PC software to solve problems and for whom 80 × 64 pixel resolution is sufficient.

Among its main features are GigE Vision and GenICam compliance, which makes it plug-and-play when used with software packages such as IMAQ Vision and Halcon.

Key features:

- Very affordable.
- Compact (40 mm × 43 mm × 106 mm).
- GigE Vision and GenICam compliant.
- GigE Vision lockable connector.
- PoE (power over Ethernet).
- 8-bit 80 × 64 pixel images streamed at 7.5 Hz, signal linear.
- 14-bit 80 × 64 pixel images streamed at 7.5 Hz, signal and temperature linear.
- Synchronization between cameras possible.
- 1x+1x GPIO.
- Compliant with any software that supports GenICam, including National Instruments IMAQ Vision, Stemmers Common Vision Blox, and COGNEX Vision Pro.

Typical applications:

- Automation and thermal machine vision.
- Entry level "high-speed" R&D.

Imaging and optical data

IR resolution	80 × 64 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	44° × 36°
Focal length	5 mm (0.20 in.)
Spatial resolution (IFOV)	10.0 mrad
F-number	1.25
Image frequency	7.5 Hz
Focus	Fixed

Detector data

Detector type	Focal plane array (FPA), uncooled VOX microbolometer
Spectral range	7.5–13 μm
Detector pitch	50 μm
Detector time constant	Typical 12 ms

Measurement

Object temperature range	<ul style="list-style-type: none"> • -25 to +135°C (-13 to 275°F) • -40 to +550°C (-40 to +1022°F)
Accuracy	±5°C (±9°F) or ±5% of reading



FLIR A5 f=5 mm (7.5 Hz)

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Website

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Customer support

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Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.5 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	GigE Vision ver. 1.2 Client API GenICam compliant
Ethernet, image streaming	8-bit monochrome @ 7.5 Hz <ul style="list-style-type: none"> • Signal linear/ DDE • Automatic/ Manual • Flip H&V 14-bit 80 × 64 pixels @ 7.5 Hz <ul style="list-style-type: none"> • Signal linear/ DDE • Temperature linear GigE Vision and GenICam compatible
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0 Power
Ethernet, protocols	TCP, UDP, ICMP, IGMP, DHCP, GigEVision

Digital input/output	
Digital input, purpose	General purpose
Digital input	1× opto-isolated, "0" <2, "1" = 2–12 VDC.
Digital output, purpose	General purpose output to ext. device (programmatically set)
Digital output	1× opto-isolated, 2–40 VDC, max. 185 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	2–40 VDC, max. 200 mA
Digital I/O, connector type	12-pole M12 connector (shared with Digital synchronization and External power)
Synchronization in, purpose	Frame synchronization in to control camera
Synchronization in	1×, non-isolated
Synchronization in, type	LVC Buffer @ 3.3V, "0" <0.8 V, "1">2.0 V.
Synchronization out, purpose	Frame synchronization out to control another FLIR Ax5 camera
Synchronization out	1×, non-isolated
Synchronization out, type	LVC Buffer @ 3.3V, "0"=24 MA max, "1"= -24 mA max.
Digital synchronization, connector type	12-pole M12 connector (shared with Digital I/O and External power)



FLIR A5 f=5 mm (7.5 Hz)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Power system	
External power operation	12/24 VDC, < 3.5 W nominal < 6.0 W absolute max.
External power, connector type	12-pole M12 connector (shared with Digital I/O and Digital Synchronization)
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F) NOTE: The operating temperature range assumes that the camera is mounted on the base support (included in the package) or a similar type of heatsink.
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none">• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 40 (IEC 60529) with base support mounted
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	0.200 kg (0.44 lb.)
Camera size (L × W × H)	106 × 40 × 43 mm (4.2 × 1.6 × 1.7 in.)
Tripod mounting	1 × UNC ¼"-20 (with Base support accessory, included in the delivery box)
Base mounting	4 × M3 thread mounting holes (bottom)
Housing material	Magnesium and aluminum

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Base support• Focus adjustment tool• Printed documentation
Packaging, weight	
Packaging, size	295 × 200 × 105 mm (11.6 × 7.9 × 4.1 in.)
EAN-13	7332558005620
UPC-12	845188005832
Country of origin	Sweden

Supplies & accessories:

- T951004ACC; Ethernet cable CAT6, 2 m/6.6 ft.
- T198349; Base support
- T198348; Cable kit Mains (UK,EU,US)
- T198392; Table stand kit
- T911183; Gigabit PoE injector 16 W, with multi-plugs
- T127605ACC; Cable M12 Pigtail
- T127606ACC; Cable M12 Sync
- T198342ACC; Focus adjustment tool
- T198594ACC; Transport case Ax5
- T199356; FLIR Ax5 accessory starter kit
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player



FLIR A5 f=5 mm (7.5 Hz)

P/N: 64205-0101

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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Website

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Customer support

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General description

The FLIR A5 has features and functions that make it the natural choice for anyone who uses PC software to solve problems and for whom 80 × 64 pixel resolution is sufficient.

Among its main features are GigE Vision and GenICam compliance, which makes it plug-and-play when used with software packages such as IMAQ Vision and Halcon.

Key features:

- Very affordable.
- Compact (40 mm × 43 mm × 106 mm).
- GigE Vision and GenICam compliant.
- GigE Vision lockable connector.
- PoE (power over Ethernet).
- 8-bit 80 × 64 pixel images streamed at 7.5 Hz, signal linear.
- 14-bit 80 × 64 pixel images streamed at 7.5 Hz, signal and temperature linear.
- Synchronization between cameras possible.
- 1x+1x GPIO.
- Compliant with any software that supports GenICam, including National Instruments IMAQ Vision, Stemmers Common Vision Blox, and COGNEX Vision Pro.

Typical applications:

- Automation and thermal machine vision.
- Entry level "high-speed" R&D.

Imaging and optical data

IR resolution	80 × 64 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	44° × 36°
Focal length	5 mm (0.20 in.)
Spatial resolution (IFOV)	10.0 mrad
F-number	1.25
Image frequency	7.5 Hz
Focus	Fixed

Detector data

Detector type	Focal plane array (FPA), uncooled VOX microbolometer
Spectral range	7.5–13 μm
Detector pitch	50 μm
Detector time constant	Typical 12 ms

Measurement

Object temperature range	<ul style="list-style-type: none"> • -25 to +135°C (-13 to 275°F) • -40 to +550°C (-40 to +1022°F)
Accuracy	±5°C (±9°F) or ±5% of reading



FLIR A5 f=5 mm with SC kit (7.5 Hz)

P/N: 64205-0102

Revision

45754

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.5 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	GigE Vision ver. 1.2 Client API GenICam compliant
Ethernet, image streaming	8-bit monochrome @ 7.5 Hz <ul style="list-style-type: none"> • Signal linear/ DDE • Automatic/ Manual • Flip H&V 14-bit 80 × 64 pixels @ 7.5 Hz <ul style="list-style-type: none"> • Signal linear/ DDE • Temperature linear GigE Vision and GenICam compatible
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0 Power
Ethernet, protocols	TCP, UDP, ICMP, IGMP, DHCP, GigEVision

Digital input/output	
Digital input, purpose	General purpose
Digital input	1× opto-isolated, "0" <2, "1" = 2–12 VDC.
Digital output, purpose	General purpose output to ext. device (programmatically set)
Digital output	1× opto-isolated, 2–40 VDC, max. 185 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	2–40 VDC, max. 200 mA
Digital I/O, connector type	12-pole M12 connector (shared with Digital synchronization and External power)
Synchronization in, purpose	Frame synchronization in to control camera
Synchronization in	1×, non-isolated
Synchronization in, type	LVC Buffer @ 3.3V, "0" <0.8 V, "1">2.0 V.
Synchronization out, purpose	Frame synchronization out to control another FLIR Ax5 camera
Synchronization out	1×, non-isolated
Synchronization out, type	LVC Buffer @ 3.3V, "0"=24 MA max, "1"= -24 mA max.
Digital synchronization, connector type	12-pole M12 connector (shared with Digital I/O and External power)



FLIR A5 f=5 mm with SC kit (7.5 Hz)

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Website

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Customer support

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Power system	
External power operation	12/24 VDC, < 3.5 W nominal < 6.0 W absolute max.
External power, connector type	12-pole M12 connector (shared with Digital I/O and Digital Synchronization)
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F) NOTE: The operating temperature range assumes that the camera is mounted on the base support (included in the package) or a similar type of heatsink.
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none">• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 40 (IEC 60529) with base support mounted
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	0.200 kg (0.44 lb.)
Camera size (L × W × H)	106 × 40 × 43 mm (4.2 × 1.6 × 1.7 in.)
Tripod mounting	1 × UNC ¼"-20 (with Base support accessory, included in the delivery box)
Base mounting	4 × M3 thread mounting holes (bottom)
Housing material	Magnesium and aluminum

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Hard transport case• Infrared camera with lens• Base support• Cable tie (2 ea.)• Ethernet cable CAT-6, 2m/6.6 ft (2 ea.)• FLIR ResearchIR Standard 4• Focus adjustment tool• Gooseneck• Mains cable kit (UK,EU,US)• PoE Injector (power over Ethernet)• Printed documentation• Table stand
Packaging, weight	
Packaging, size	370 × 180 × 320 mm (14.6 × 7.1 × 12.6 in.)
EAN-13	7332558005675
UPC-12	845188005887
Country of origin	Sweden

Supplies & accessories:

- T951004ACC; Ethernet cable CAT6, 2 m/6.6 ft.
- T198349; Base support
- T198348; Cable kit Mains (UK,EU,US)
- T198392; Table stand kit
- T911183; Gigabit PoE injector 16 W, with multi-plugs



FLIR A5 f=5 mm with SC kit (7.5 Hz)

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Website

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Customer support

<http://support.flir.com>

- T127605ACC; Cable M12 Pigtail
- T127606ACC; Cable M12 Sync
- T198342ACC; Focus adjustment tool
- T198594ACC; Transport case Ax5
- T199356; FLIR Ax5 accessory starter kit
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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General description

The FLIR A5 has features and functions that make it the natural choice for anyone who uses PC software to solve problems and for whom 80 × 64 pixel resolution is sufficient.

Among its main features are GigE Vision and GenICam compliance, which makes it plug-and-play when used with software packages such as IMAQ Vision and Halcon.

Key features:

- Very affordable.
- Compact (40 mm × 43 mm × 106 mm).
- GigE Vision and GenICam compliant.
- GigE Vision lockable connector.
- PoE (power over Ethernet).
- 8-bit 80 × 64 pixel images streamed at 60 Hz, signal linear.
- 14-bit 80 × 64 pixel images streamed at 60 Hz, signal and temperature linear.
- High frame rates (60 Hz).
- Synchronization between cameras possible.
- 1x+1x GPIO.
- Compliant with any software that supports GenICam, including National Instruments IMAQ Vision, Stemmers Common Vision Blox, and COGNEX Vision Pro.

Typical applications:

- Automation and thermal machine vision.
- Entry level "high-speed" R&D.

Imaging and optical data

IR resolution	80 × 64 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	25° × 20°
Focal length	9 mm (0.35 in.)
Spatial resolution (IFOV)	5.56 mrad
F-number	1.25
Image frequency	60 Hz
Focus	Fixed

Detector data

Detector type	Focal plane array (FPA), uncooled VOX microbolometer
Spectral range	7.5–13 μm
Detector pitch	50 μm
Detector time constant	Typical 12 ms

Measurement

Object temperature range	<ul style="list-style-type: none"> • -25 to +135°C (-13 to 275°F) • -40 to +550°C (-40 to +1022°F)
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FLIR A5 f=9 mm

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Website

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Customer support

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Measurement	
Accuracy	±5°C (±9°F) or ±5% of reading

Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.5 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	GigE Vision ver. 1.2 Client API GenICam compliant
Ethernet, image streaming	8-bit monochrome @ 60 Hz <ul style="list-style-type: none"> • Signal linear/ DDE • Automatic/ Manual • Flip H&V 14-bit 80 × 64 pixels @ 60 Hz <ul style="list-style-type: none"> • Signal linear/ DDE • Temperature linear GigE Vision and GenICam compatible
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0 Power
Ethernet, protocols	TCP, UDP, ICMP, IGMP, DHCP, GigEVision

Digital input/output	
Digital input, purpose	General purpose
Digital input	1× opto-isolated, "0" <2, "1" = 2–12 VDC.
Digital output, purpose	General purpose output to ext. device (programmatically set)
Digital output	1× opto-isolated, 2–40 VDC, max. 185 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	2–40 VDC, max. 200 mA
Digital I/O, connector type	12-pole M12 connector (shared with Digital synchronization and External power)
Synchronization in, purpose	Frame synchronization in to control camera
Synchronization in	1×, non-isolated
Synchronization in, type	LVC Buffer @ 3.3V, "0" <0.8 V, "1">2.0 V.
Synchronization out, purpose	Frame synchronization out to control another FLIR Ax5 camera
Synchronization out	1×, non-isolated
Synchronization out, type	LVC Buffer @ 3.3V, "0"=24 MA max, "1"= -24 mA max.



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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Digital input/output	
Digital synchronization, connector type	12-pole M12 connector (shared with Digital I/O and External power)

Power system	
External power operation	12/24 VDC, < 3.5 W nominal < 6.0 W absolute max.
External power, connector type	12-pole M12 connector (shared with Digital I/O and Digital Synchronization)
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F) NOTE: The operating temperature range assumes that the camera is mounted on the base support (included in the package) or a similar type of heatsink.
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none">• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 40 (IEC 60529) with base support mounted
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	0.200 kg (0.44 lb.)
Camera size (L × W × H)	106 × 40 × 43 mm (4.2 × 1.6 × 1.7 in.)
Tripod mounting	1 × UNC ¼"-20 (with Base support accessory, included in the delivery box)
Base mounting	4 × M3 thread mounting holes (bottom)
Housing material	Magnesium and aluminum

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Base support• Focus adjustment tool• Printed documentation
Packaging, weight	
Packaging, size	295 × 200 × 105 mm (11.6 × 7.9 × 4.1 in.)
EAN-13	7332558003954 4743254000643 (Estonia plant)
UPC-12	845188003593
Country of origin	Sweden

Supplies & accessories:

- T951004ACC; Ethernet cable CAT6, 2 m/6.6 ft.
- T198349; Base support
- T198348; Cable kit Mains (UK,EU,US)
- T198392; Table stand kit
- T911183; Gigabit PoE injector 16 W, with multi-plugs



FLIR A5 f=9 mm

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- T127605ACC; Cable M12 Pigtail
- T127606ACC; Cable M12 Sync
- T198342ACC; Focus adjustment tool
- T198594ACC; Transport case Ax5
- T199356; FLIR Ax5 accessory starter kit
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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Website

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Customer support

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General description	
<p>The FLIR A5 has features and functions that make it the natural choice for anyone who uses PC software to solve problems and for whom 80 × 64 pixel resolution is sufficient.</p> <p>Among its main features are GigE Vision and GenICam compliance, which makes it plug-and-play when used with software packages such as IMAQ Vision and Halcon.</p>	
Key features:	
<ul style="list-style-type: none"> • Very affordable. • Compact (40 mm × 43 mm × 106 mm). • GigE Vision and GenICam compliant. • GigE Vision lockable connector. • PoE (power over Ethernet). • 8-bit 80 × 64 pixel images streamed at 7.5 Hz, signal linear. • 14-bit 80 × 64 pixel images streamed at 7.5 Hz, signal and temperature linear. • Synchronization between cameras possible. • 1x+1x GPIO. • Compliant with any software that supports GenICam, including National Instruments IMAQ Vision, Stemmers Common Vision Blox, and COGNEX Vision Pro. 	
Typical applications:	
<ul style="list-style-type: none"> • Automation and thermal machine vision. • Entry level "high-speed" R&D. 	

Imaging and optical data	
IR resolution	80 × 64 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	25° × 20°
Focal length	9 mm (0.35 in.)
Spatial resolution (IFOV)	5.56 mrad
F-number	1.25
Image frequency	7.5 Hz
Focus	Fixed

Detector data	
Detector type	Focal plane array (FPA), uncooled VOX microbolometer
Spectral range	7.5–13 μm
Detector pitch	50 μm
Detector time constant	Typical 12 ms

Measurement	
Object temperature range	<ul style="list-style-type: none"> • -25 to +135°C (-13 to 275°F) • -40 to +550°C (-40 to +1022°F)
Accuracy	±5°C (±9°F) or ±5% of reading



FLIR A5 f=9 mm (7.5 Hz)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.5 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	GigE Vision ver. 1.2 Client API GenICam compliant
Ethernet, image streaming	8-bit monochrome @ 7.5 Hz <ul style="list-style-type: none"> • Signal linear/ DDE • Automatic/ Manual • Flip H&V 14-bit 80 × 64 pixels @ 7.5 Hz <ul style="list-style-type: none"> • Signal linear/ DDE • Temperature linear GigE Vision and GenICam compatible
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0 Power
Ethernet, protocols	TCP, UDP, ICMP, IGMP, DHCP, GigEVision

Digital input/output	
Digital input, purpose	General purpose
Digital input	1× opto-isolated, "0" <2, "1" = 2–12 VDC.
Digital output, purpose	General purpose output to ext. device (programmatically set)
Digital output	1× opto-isolated, 2–40 VDC, max. 185 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	2–40 VDC, max. 200 mA
Digital I/O, connector type	12-pole M12 connector (shared with Digital synchronization and External power)
Synchronization in, purpose	Frame synchronization in to control camera
Synchronization in	1×, non-isolated
Synchronization in, type	LVC Buffer @3.3V, "0" <0.8 V, "1">2.0 V.
Synchronization out, purpose	Frame synchronization out to control another FLIR Ax5 camera
Synchronization out	1×, non-isolated
Synchronization out, type	LVC Buffer @ 3.3V, "0"=24 MA max, "1"= -24 mA max.
Digital synchronization, connector type	12-pole M12 connector (shared with Digital I/O and External power)



FLIR A5 f=9 mm (7.5 Hz)

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Power system	
External power operation	12/24 VDC, < 3.5 W nominal < 6.0 W absolute max.
External power, connector type	12-pole M12 connector (shared with Digital I/O and Digital Synchronization)
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F) NOTE: The operating temperature range assumes that the camera is mounted on the base support (included in the package) or a similar type of heatsink.
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> EN 61000-6-2 (Immunity) EN 61000-6-3 (Emission) FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 40 (IEC 60529) with base support mounted
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	0.200 kg (0.44 lb.)
Camera size (L × W × H)	106 × 40 × 43 mm (4.2 × 1.6 × 1.7 in.)
Tripod mounting	1 × UNC ¼"-20 (with Base support accessory, included in the delivery box)
Base mounting	4 × M3 thread mounting holes (bottom)
Housing material	Magnesium and aluminum

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> Infrared camera with lens Base support Focus adjustment tool Printed documentation
Packaging, weight	
Packaging, size	295 × 200 × 105 mm (11.6 × 7.9 × 4.1 in.)
EAN-13	7332558005637
UPC-12	845188005849
Country of origin	Sweden

Supplies & accessories:

- T951004ACC; Ethernet cable CAT6, 2 m/6.6 ft.
- T198349; Base support
- T198348; Cable kit Mains (UK,EU,US)
- T198392; Table stand kit
- T911183; Gigabit PoE injector 16 W, with multi-plugs
- T127605ACC; Cable M12 Pigtail
- T127606ACC; Cable M12 Sync
- T198342ACC; Focus adjustment tool
- T198594ACC; Transport case Ax5
- T199356; FLIR Ax5 accessory starter kit
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player



FLIR A5 f=9 mm (7.5 Hz)

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Website

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Customer support

<http://support.flir.com>

- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

P/N: 73413-0101

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General description	
<p>The FLIR A65 has features and functions that make it the natural choice for anyone who uses PC software to solve problems and for whom 640 × 512 pixel resolution is sufficient.</p> <p>Among its main features are GigE Vision and GenICam compliance, which makes it plug-and-play when used with software packages such as IMAQ Vision and Halcon.</p>	
<p>Key features:</p> <ul style="list-style-type: none"> • Very affordable. • Compact (40 mm × 43 mm × 106 mm). • GigE Vision and GenICam compliant. • GigE Vision lockable connector. • PoE (power over Ethernet). • 8-bit 640 × 512 pixel images streamed at 30 Hz, signal linear • 14-bit 640 × 512 pixel images streamed at 30 Hz, signal and temperature linear • Synchronization between cameras possible. • 1x+1x GPIO. • Compliant with any software that supports GenICam, including National Instruments IMAQ Vision, Stemmers Common Vision Blox, and COGNEX Vision Pro. 	
<p>Typical applications:</p> <ul style="list-style-type: none"> • Automation and thermal machine vision. • Entry level "high-speed" R&D. 	

Imaging and optical data	
IR resolution	640 × 512 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	45° × 37°
Focal length	13 mm (0.5 in.)
Spatial resolution (IFOV)	1.31 mrad
F-number	1.25
Image frequency	30 Hz
Focus	Fixed

Detector data	
Detector type	Focal plane array (FPA), uncooled VOX microbolometer
Spectral range	7.5–13 μm
Detector pitch	17 μm
Detector time constant	Typical 12 ms

Measurement	
Object temperature range	<ul style="list-style-type: none"> • -25 to +135°C (-13 to 275°F) • -40 to +550°C (-40 to +1022°F)
Accuracy	±5°C (±9°F) or ±5% of reading



FLIR A65 f=13 mm

P/N: 73413-0101

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.5 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	GigE Vision ver. 1.2 Client API GenICam compliant
Ethernet, image streaming	8-bit monochrome @ 30 Hz <ul style="list-style-type: none"> • Signal linear/ DDE • Automatic/ Manual • Flip H&V 14-bit 640 × 512 pixels @ 30 Hz <ul style="list-style-type: none"> • Signal linear/ DDE • Temperature linear GigE Vision and GenICam compatible
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0 Power
Ethernet, protocols	TCP, UDP, ICMP, IGMP, DHCP, GigEVision

Digital input/output	
Digital input, purpose	General purpose
Digital input	1× opto-isolated, "0" <1.2 VDC, "1" = 2–25 VDC.
Digital output, purpose	General purpose output to ext. device (programmatically set)
Digital output	1× opto-isolated, 2–40 VDC, max. 185 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	2–40 VDC, max. 200 mA
Digital I/O, connector type	12-pole M12 connector (shared with Digital synchronization and External power)
Synchronization in, purpose	Frame synchronization in to control camera
Synchronization in	1×, non-isolated
Synchronization in, type	LVC Buffer @3.3V, "0" <0.8 V, "1">2.0 V.
Synchronization out, purpose	Frame synchronization out to control another FLIR Ax5 camera
Synchronization out	1×, non-isolated
Synchronization out, type	LVC Buffer @ 3.3V, "0"=24 MA max, "1"= -24 mA max.
Digital synchronization, connector type	12-pole M12 connector (shared with Digital I/O and External power)



FLIR A65 f=13 mm

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Website

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Power system	
External power operation	12/24 VDC, < 3.5 W nominal < 6.0 W absolute max.
External power, connector type	12-pole M12 connector (shared with Digital I/O and Digital Synchronization)
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F) NOTE: The operating temperature range assumes that the camera is mounted on the base support (included in the package) or a similar type of heatsink.
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none">• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 40 (IEC 60529) with base support mounted
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	0.200 kg (0.44 lb.)
Camera size (L × W × H)	106 × 40 × 43 mm (4.2 × 1.6 × 1.7 in.)
Tripod mounting	1 × UNC ¼"-20 (with Base support accessory, included in the delivery box)
Base mounting	4 × M3 thread mounting holes (bottom)
Housing material	Magnesium and aluminum

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Base support• Focus adjustment tool• Printed documentation
Packaging, weight	
Packaging, size	295 × 200 × 105 mm (11.6 × 7.9 × 4.1 in.)
EAN-13	7332558010594
UPC-12	845188011260
Country of origin	Estonia

Supplies & accessories:

- T951004ACC; Ethernet cable CAT6, 2 m/6.6 ft.
- T198349; Base support
- T198348; Cable kit Mains (UK,EU,US)
- T198392; Table stand kit
- T911183; Gigabit PoE injector 16 W, with multi-plugs
- T127605ACC; Cable M12 Pigtail
- T127606ACC; Cable M12 Sync
- T198594ACC; Transport case Ax5
- T199356; FLIR Ax5 accessory starter kit
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- T199233; FLIR Atlas SDK for .NET



FLIR A65 f=13 mm

P/N: 73413-0101

- T199234; FLIR Atlas SDK for MATLAB

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General description

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Among its main features are GigE Vision and GenICam compliance, which makes it plug-and-play when used with software packages such as IMAQ Vision and Halcon.

Key features:

- Very affordable.
- Compact (40 mm × 43 mm × 106 mm).
- GigE Vision and GenICam compliant.
- GigE Vision lockable connector.
- PoE (power over Ethernet).
- 8-bit 640 × 512 pixel images streamed at 7.5 Hz, signal linear
- 14-bit 640 × 512 pixel images streamed at 7.5 Hz, signal and temperature linear
- Synchronization between cameras possible.
- 1x+1x GPIO.
- Compliant with any software that supports GenICam, including National Instruments IMAQ Vision, Stemmers Common Vision Blox, and COGNEX Vision Pro.

Typical applications:

- Automation and thermal machine vision.
- Entry level "high-speed" R&D.

Imaging and optical data

IR resolution	640 × 512 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	45° × 37°
Focal length	13 mm (0.5 in.)
Spatial resolution (IFOV)	1.31 mrad
F-number	1.25
Image frequency	7.5 Hz
Focus	Fixed

Detector data

Detector type	Focal plane array (FPA), uncooled VOX microbolometer
Spectral range	7.5–13 μm
Detector pitch	17 μm
Detector time constant	Typical 12 ms

Measurement

Object temperature range	<ul style="list-style-type: none"> • -25 to +135°C (-13 to 275°F) • -40 to +550°C (-40 to +1022°F)
Accuracy	±5°C (±9°F) or ±5% of reading



FLIR A65 f=13 mm (7.5 Hz)

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Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
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Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	GigE Vision ver. 1.2 Client API GenICam compliant
Ethernet, image streaming	8-bit monochrome @ 7.5 Hz <ul style="list-style-type: none"> • Signal linear/ DDE • Automatic/ Manual • Flip H&V 14-bit 640 × 512 pixels @ 7.5 Hz <ul style="list-style-type: none"> • Signal linear/ DDE • Temperature linear GigE Vision and GenICam compatible
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0 Power
Ethernet, protocols	TCP, UDP, ICMP, IGMP, DHCP, GigEVision

Digital input/output	
Digital input, purpose	General purpose
Digital input	1× opto-isolated, "0" <1.2 VDC, "1" = 2–25 VDC.
Digital output, purpose	General purpose output to ext. device (programmatically set)
Digital output	1× opto-isolated, 2–40 VDC, max. 185 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	2–40 VDC, max. 200 mA
Digital I/O, connector type	12-pole M12 connector (shared with Digital synchronization and External power)
Synchronization in, purpose	Frame synchronization in to control camera
Synchronization in	1×, non-isolated
Synchronization in, type	LVC Buffer @ 3.3V, "0" <0.8 V, "1" >2.0 V.
Synchronization out, purpose	Frame synchronization out to control another FLIR Ax5 camera
Synchronization out	1×, non-isolated
Synchronization out, type	LVC Buffer @ 3.3V, "0" = 24 MA max, "1" = -24 mA max.
Digital synchronization, connector type	12-pole M12 connector (shared with Digital I/O and External power)



FLIR A65 f=13 mm (7.5 Hz)

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Website

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Customer support

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Power system	
External power operation	12/24 VDC, < 3.5 W nominal < 6.0 W absolute max.
External power, connector type	12-pole M12 connector (shared with Digital I/O and Digital Synchronization)
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F) NOTE: The operating temperature range assumes that the camera is mounted on the base support (included in the package) or a similar type of heatsink.
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none">• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 40 (IEC 60529) with base support mounted
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	0.200 kg (0.44 lb.)
Camera size (L × W × H)	106 × 40 × 43 mm (4.2 × 1.6 × 1.7 in.)
Tripod mounting	1 × UNC ¼"-20 (with Base support accessory, included in the delivery box)
Base mounting	4 × M3 thread mounting holes (bottom)
Housing material	Magnesium and aluminum

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Base support• Focus adjustment tool• Printed documentation
Packaging, weight	
Packaging, size	295 × 200 × 105 mm (11.6 × 7.9 × 4.1 in.)
EAN-13	7332558010617
UPC-12	845188011284
Country of origin	Sweden

Supplies & accessories:

- T951004ACC; Ethernet cable CAT6, 2 m/6.6 ft.
- T198349; Base support
- T198348; Cable kit Mains (UK,EU,US)
- T198392; Table stand kit
- T911183; Gigabit PoE injector 16 W, with multi-plugs
- T127605ACC; Cable M12 Pigtail
- T127606ACC; Cable M12 Sync
- T198594ACC; Transport case Ax5
- T199356; FLIR Ax5 accessory starter kit
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- T199233; FLIR Atlas SDK for .NET



FLIR A65 f=13 mm (7.5 Hz)

P/N: 73513-0101

- T199234; FLIR Atlas SDK for MATLAB

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General description	
<p>The FLIR A65 has features and functions that make it the natural choice for anyone who uses PC software to solve problems and for whom 640 × 512 pixel resolution is sufficient.</p> <p>Among its main features are GigE Vision and GenICam compliance, which makes it plug-and-play when used with software packages such as IMAQ Vision and Halcon.</p>	
Key features:	
<ul style="list-style-type: none"> • Very affordable. • Compact • GigE Vision and GenICam compliant. • GigE Vision lockable connector. • PoE (power over Ethernet). • 8-bit 640 × 512 pixel images streamed at 30 Hz, signal linear • 14-bit 640 × 512 pixel images streamed at 30 Hz, signal and temperature linear • Synchronization between cameras possible. • 1x+1x GPIO. • Compliant with any software that supports GenICam, including National Instruments IMAQ Vision, Stemmers Common Vision Blox, and COGNEX Vision Pro. 	
Typical applications:	
<ul style="list-style-type: none"> • Automation and thermal machine vision. • Entry level "high-speed" R&D. 	

Imaging and optical data	
IR resolution	640 × 512 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	45° × 37°
Minimum focus distance	7.6 cm (3.0 in.)
Focal length	13 mm (0.5 in.)
Spatial resolution (IFOV)	1.31 mrad
F-number	1.25
Image frequency	30 Hz
Focus	Fixed

Detector data	
Detector type	Focal plane array (FPA), uncooled VOX microbolometer
Spectral range	7.5–13 μm
Detector pitch	17 μm
Detector time constant	Typical 12 ms

Measurement	
Object temperature range	<ul style="list-style-type: none"> • -25 to +135°C (-13 to 275°F) • -40 to +550°C (-40 to +1022°F)



FLIR A65 FOV 45 (30 Hz, ver. 2016)

P/N: 75013-0101

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Website

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Customer support

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Measurement	
Accuracy	±5°C (±9°F) or ±5% of reading

Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.5 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	GigE Vision ver. 1.2 Client API GenICam compliant
Ethernet, image streaming	8-bit monochrome @ 30 Hz <ul style="list-style-type: none"> • Signal linear/ DDE • Automatic/ Manual • Flip H&V 14-bit 640 × 512 pixels @ 30 Hz <ul style="list-style-type: none"> • Signal linear/ DDE • Temperature linear GigE Vision and GenICam compatible
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0 Power
Ethernet, protocols	TCP, UDP, ICMP, IGMP, DHCP, GigEVision

Digital input/output	
Digital input, purpose	General purpose
Digital input	1× opto-isolated, "0" <1.2 VDC, "1" = 2–25 VDC.
Digital output, purpose	General purpose output to ext. device (programmatically set)
Digital output	1× opto-isolated, 2–40 VDC, max. 185 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	2–40 VDC, max. 200 mA
Digital I/O, connector type	12-pole M12 connector (shared with Digital synchronization and External power)
Synchronization in, purpose	Frame synchronization in to control camera
Synchronization in	1×, non-isolated
Synchronization in, type	LVC Buffer @ 3.3V, "0" <0.8 V, "1">2.0 V.
Synchronization out, purpose	Frame synchronization out to control another FLIR Ax5 camera
Synchronization out	1×, non-isolated
Synchronization out, type	LVC Buffer @ 3.3V, "0"=24 MA max, "1"= -24 mA max.



FLIR A65 FOV 45 (30 Hz, ver. 2016)

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Digital input/output	
Digital synchronization, connector type	12-pole M12 connector (shared with Digital I/O and External power)

Power system	
External power operation	12/24 VDC, < 3.5 W nominal < 6.0 W absolute max.
External power, connector type	12-pole M12 connector (shared with Digital I/O and Digital Synchronization)
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	–15°C to +60°C (+5°F to +140°F) NOTE: The operating temperature range assumes that the camera is mounted on the base support (included in the package) or a similar type of heatsink.
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none">• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 40 (IEC 60529) with base support mounted
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC60068-2-6) and MIL-STD810G

Physical data	
Camera size (L x W x H)	104.1 x 49.6 x 46.6 mm (4.1 x 1.9 x 1.8 in.)
Tripod mounting	1 x UNC ¼"-20 (with Base support accessory, included in the delivery box)
Base mounting	4 x M3 thread mounting holes (bottom)
Housing material	Magnesium and aluminum

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Base support• Focus adjustment tool• Printed documentation
EAN-13	7332558011102
UPC-12	845188011970
Country of origin	Sweden

Supplies & accessories:

- T951004ACC; Ethernet cable CAT6, 2 m/6.6 ft.
- T198349; Base support
- T198348; Cable kit Mains (UK,EU,US)
- T127605ACC; Cable M12 Pigtail
- T127606ACC; Cable M12 Sync
- T199356; FLIR Ax5 accessory starter kit
- T198342ACC; Focus adjustment tool
- T911183; Gigabit PoE injector 16 W, with multi-plugs
- T198392; Table stand kit
- T198594ACC; Transport case Ax5
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- T199233; FLIR Atlas SDK for .NET



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- T199234; FLIR Atlas SDK for MATLAB

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Key features:

- Very affordable.
- Compact (40 mm × 43 mm × 106 mm).
- GigE Vision and GenICam compliant.
- GigE Vision lockable connector.
- PoE (power over Ethernet).
- 8-bit 640 × 512 pixel images streamed at 30 Hz, signal linear
- 14-bit 640 × 512 pixel images streamed at 30 Hz, signal and temperature linear
- Synchronization between cameras possible.
- 1x+1x GPIO.
- Compliant with any software that supports GenICam, including National Instruments IMAQ Vision, Stemmers Common Vision Blox, and COGNEX Vision Pro.

Typical applications:

- Automation and thermal machine vision.
- Entry level "high-speed" R&D.

Imaging and optical data

IR resolution	640 × 512 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	45° × 37°
Minimum focus distance	7.6 cm (3.0 in.)
Focal length	13 mm (0.5 in.)
Spatial resolution (IFOV)	1.31 mrad
F-number	1.25
Image frequency	30 Hz
Focus	Fixed

Detector data

Detector type	Focal plane array (FPA), uncooled VOX microbolometer
Spectral range	7.5–13 μm
Detector pitch	17 μm
Detector time constant	Typical 12 ms

Measurement

Object temperature range	<ul style="list-style-type: none"> • -25 to +135°C (-13 to 275°F) • -40 to +550°C (-40 to +1022°F)
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FLIR A65 f=13 mm with SC kit (30 Hz)

P/N: 73413-0102

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Measurement	
Accuracy	±5°C (±9°F) or ±5% of reading

Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.5 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	GigE Vision ver. 1.2 Client API GenICam compliant
Ethernet, image streaming	8-bit monochrome @ 30 Hz <ul style="list-style-type: none"> • Signal linear/ DDE • Automatic/ Manual • Flip H&V 14-bit 640 × 512 pixels @ 30 Hz <ul style="list-style-type: none"> • Signal linear/ DDE • Temperature linear GigE Vision and GenICam compatible
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0 Power
Ethernet, protocols	TCP, UDP, ICMP, IGMP, DHCP, GigEVision

Digital input/output	
Digital input, purpose	General purpose
Digital input	1× opto-isolated, "0" <1.2 VDC, "1" = 2–25 VDC.
Digital output, purpose	General purpose output to ext. device (programmatically set)
Digital output	1× opto-isolated, 2–40 VDC, max. 185 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	2–40 VDC, max. 200 mA
Digital I/O, connector type	12-pole M12 connector (shared with Digital synchronization and External power)
Synchronization in, purpose	Frame synchronization in to control camera
Synchronization in	1×, non-isolated
Synchronization in, type	LVC Buffer @ 3.3V, "0" <0.8 V, "1">2.0 V.
Synchronization out, purpose	Frame synchronization out to control another FLIR Ax5 camera
Synchronization out	1×, non-isolated
Synchronization out, type	LVC Buffer @ 3.3V, "0"=24 MA max, "1"= -24 mA max.



FLIR A65 f=13 mm with SC kit (30 Hz)

P/N: 73413-0102

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Website

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Customer support

<http://support.flir.com>

Digital input/output	
Digital synchronization, connector type	12-pole M12 connector (shared with Digital I/O and External power)

Power system	
External power operation	12/24 VDC, < 3.5 W nominal < 6.0 W absolute max.
External power, connector type	12-pole M12 connector (shared with Digital I/O and Digital Synchronization)
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F) NOTE: The operating temperature range assumes that the camera is mounted on the base support (included in the package) or a similar type of heatsink.
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none">• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 40 (IEC 60529) with base support mounted
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	0.200 kg (0.44 lb.)
Camera size (L × W × H)	106 × 40 × 43 mm (4.2 × 1.6 × 1.7 in.)
Tripod mounting	1 × UNC ¼"-20 (with Base support accessory, included in the delivery box)
Base mounting	4 × M3 thread mounting holes (bottom)
Housing material	Magnesium and aluminum

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Hard transport case• Infrared camera with lens• Base support• Cable tie (2 ea.)• Ethernet cable CAT-6, 2m/6.6 ft (2 ea.)• FLIR ResearchIR Standard 4• Focus adjustment tool• Gooseneck• Mains cable kit (UK,EU,US)• PoE Injector (power over Ethernet)• Printed documentation• Table stand
Packaging, weight	
Packaging, size	295 × 200 × 105 mm (11.6 × 7.9 × 4.1 in.)
EAN-13	7332558011829
UPC-12	845188012915
Country of origin	Estonia



FLIR A65 f=13 mm with SC kit (30 Hz)

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Website

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Customer support

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Supplies & accessories:

- T951004ACC; Ethernet cable CAT6, 2 m/6.6 ft.
- T198349; Base support
- T198348; Cable kit Mains (UK,EU,US)
- T127605ACC; Cable M12 Pigtail
- T127606ACC; Cable M12 Sync
- T199356; FLIR Ax5 accessory starter kit
- T198342ACC; Focus adjustment tool
- T911183; Gigabit PoE injector 16 W, with multi-plugs
- T198392; Table stand kit
- T198594ACC; Transport case Ax5
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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General description

The FLIR A65 has features and functions that make it the natural choice for anyone who uses PC software to solve problems and for whom 640 × 512 pixel resolution is sufficient.

Among its main features are GigE Vision and GenICam compliance, which makes it plug-and-play when used with software packages such as IMAQ Vision and Halcon.

Key features:

- Very affordable.
- Compact (40 mm × 43 mm × 106 mm).
- GigE Vision and GenICam compliant.
- GigE Vision lockable connector.
- PoE (power over Ethernet).
- 8-bit 640 × 512 pixel images streamed at 7.5 Hz, signal linear
- 14-bit 640 × 512 pixel images streamed at 7.5 Hz, signal and temperature linear
- Synchronization between cameras possible.
- 1x+1x GPIO.
- Compliant with any software that supports GenICam, including National Instruments IMAQ Vision, Stemmers Common Vision Blox, and COGNEX Vision Pro.

Typical applications:

- Automation and thermal machine vision.
- Entry level "high-speed" R&D.

Imaging and optical data

IR resolution	640 × 512 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	45° × 37°
Minimum focus distance	7.6 cm (3.0 in.)
Focal length	13 mm (0.5 in.)
Spatial resolution (IFOV)	1.31 mrad
F-number	1.25
Image frequency	7.5 Hz
Focus	Fixed

Detector data

Detector type	Focal plane array (FPA), uncooled VOX microbolometer
Spectral range	7.5–13 μm
Detector pitch	17 μm
Detector time constant	Typical 12 ms

Measurement

Object temperature range	<ul style="list-style-type: none"> • -25 to +135°C (-13 to 275°F) • -40 to +550°C (-40 to +1022°F)
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FLIR A65 f=13 mm with SC kit (7.5 Hz)

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Website

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Customer support

<http://support.flir.com>

Measurement	
Accuracy	±5°C (±9°F) or ±5% of reading

Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.5 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	GigE Vision ver. 1.2 Client API GenICam compliant
Ethernet, image streaming	8-bit monochrome @ 7.5 Hz <ul style="list-style-type: none"> • Signal linear/ DDE • Automatic/ Manual • Flip H&V 14-bit 640 × 512 pixels @ 7.5 Hz <ul style="list-style-type: none"> • Signal linear/ DDE • Temperature linear GigE Vision and GenICam compatible
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0 Power
Ethernet, protocols	TCP, UDP, ICMP, IGMP, DHCP, GigEVision

Digital input/output	
Digital input, purpose	General purpose
Digital input	1× opto-isolated, "0" <1.2 VDC, "1" = 2–25 VDC.
Digital output, purpose	General purpose output to ext. device (programmatically set)
Digital output	1× opto-isolated, 2–40 VDC, max. 185 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	2–40 VDC, max. 200 mA
Digital I/O, connector type	12-pole M12 connector (shared with Digital synchronization and External power)
Synchronization in, purpose	Frame synchronization in to control camera
Synchronization in	1×, non-isolated
Synchronization in, type	LVC Buffer @ 3.3V, "0" <0.8 V, "1">2.0 V.
Synchronization out, purpose	Frame synchronization out to control another FLIR Ax5 camera
Synchronization out	1×, non-isolated
Synchronization out, type	LVC Buffer @ 3.3V, "0"=24 MA max, "1"= -24 mA max.



FLIR A65 f=13 mm with SC kit (7.5 Hz)

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Website

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Customer support

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Digital input/output	
Digital synchronization, connector type	12-pole M12 connector (shared with Digital I/O and External power)

Power system	
External power operation	12/24 VDC, < 3.5 W nominal < 6.0 W absolute max.
External power, connector type	12-pole M12 connector (shared with Digital I/O and Digital Synchronization)
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F) NOTE: The operating temperature range assumes that the camera is mounted on the base support (included in the package) or a similar type of heatsink.
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none">• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 40 (IEC 60529) with base support mounted
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	0.200 kg (0.44 lb.)
Camera size (L × W × H)	106 × 40 × 43 mm (4.2 × 1.6 × 1.7 in.)
Tripod mounting	1 × UNC ¼"-20 (with Base support accessory, included in the delivery box)
Base mounting	4 × M3 thread mounting holes (bottom)
Housing material	Magnesium and aluminum

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Hard transport case• Infrared camera with lens• Base support• Cable tie (2 ea.)• Ethernet cable CAT-6, 2m/6.6 ft (2 ea.)• FLIR ResearchIR Standard 4• Focus adjustment tool• Gooseneck• Mains cable kit (UK,EU,US)• PoE Injector (power over Ethernet)• Printed documentation• Table stand
Packaging, weight	5.3 kg (11.7 lb.)
Packaging, size	370 × 180 × 320 mm (14.6 × 7.1 × 12.6 in.)
EAN-13	7332558010624
UPC-12	845188011291
Country of origin	Sweden



FLIR A65 f=13 mm with SC kit (7.5 Hz)

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Website

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Customer support

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Supplies & accessories:

- T951004ACC; Ethernet cable CAT6, 2 m/6.6 ft.
- T198349; Base support
- T198348; Cable kit Mains (UK,EU,US)
- T127605ACC; Cable M12 Pigtail
- T127606ACC; Cable M12 Sync
- T199356; FLIR Ax5 accessory starter kit
- T911183; Gigabit PoE injector 16 W, with multi-plugs
- T198392; Table stand kit
- T198594ACC; Transport case Ax5
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

P/N: 73425-0101

Revision

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Website

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Customer support

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General description

The FLIR A65 has features and functions that make it the natural choice for anyone who uses PC software to solve problems and for whom 640 × 512 pixel resolution is sufficient.

Among its main features are GigE Vision and GenICam compliance, which makes it plug-and-play when used with software packages such as IMAQ Vision and Halcon.

Key features:

- Very affordable.
- Compact (40 mm × 43 mm × 106 mm).
- GigE Vision and GenICam compliant.
- GigE Vision lockable connector.
- PoE (power over Ethernet).
- 8-bit 640 × 512 pixel images streamed at 30 Hz, signal linear
- 14-bit 640 × 512 pixel images streamed at 30 Hz, signal and temperature linear
- Synchronization between cameras possible.
- 1x+1x GPIO.
- Compliant with any software that supports GenICam, including National Instruments IMAQ Vision, Stemmers Common Vision Blox, and COGNEX Vision Pro.

Typical applications:

- Automation and thermal machine vision.
- Entry level "high-speed" R&D.

Imaging and optical data

IR resolution	640 × 512 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	25° × 20°
Focal length	25 mm (0.98 in.)
Spatial resolution (IFOV)	0.68 mrad
F-number	1.25
Image frequency	30 Hz
Focus	Fixed

Detector data

Detector type	Focal plane array (FPA), uncooled VOX microbolometer
Spectral range	7.5–13 μm
Detector pitch	17 μm
Detector time constant	Typical 12 ms

Measurement

Object temperature range	<ul style="list-style-type: none"> • -25 to +135°C (-13 to 275°F) • -40 to +550°C (-40 to +1022°F)
Accuracy	±5°C (±9°F) or ±5% of reading

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Website

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Customer support

<http://support.flir.com>

Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.5 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	GigE Vision ver. 1.2 Client API GenICam compliant
Ethernet, image streaming	8-bit monochrome @ 30 Hz <ul style="list-style-type: none"> • Signal linear/ DDE • Automatic/ Manual • Flip H&V 14-bit 640 × 512 pixels @ 30 Hz <ul style="list-style-type: none"> • Signal linear/ DDE • Temperature linear GigE Vision and GenICam compatible
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0 Power
Ethernet, protocols	TCP, UDP, ICMP, IGMP, DHCP, GigEVision

Digital input/output	
Digital input, purpose	General purpose
Digital input	1× opto-isolated, "0" <1.2 VDC, "1" = 2–25 VDC.
Digital output, purpose	General purpose output to ext. device (programmatically set)
Digital output	1× opto-isolated, 2–40 VDC, max. 185 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	2–40 VDC, max. 200 mA
Digital I/O, connector type	12-pole M12 connector (shared with Digital synchronization and External power)
Synchronization in, purpose	Frame synchronization in to control camera
Synchronization in	1×, non-isolated
Synchronization in, type	LVC Buffer @3.3V, "0" <0.8 V, "1">2.0 V.
Synchronization out, purpose	Frame synchronization out to control another FLIR Ax5 camera
Synchronization out	1×, non-isolated
Synchronization out, type	LVC Buffer @ 3.3V, "0"=24 MA max, "1"= -24 mA max.
Digital synchronization, connector type	12-pole M12 connector (shared with Digital I/O and External power)



FLIR A65 f=25 mm

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Power system	
External power operation	12/24 VDC, < 3.5 W nominal < 6.0 W absolute max.
External power, connector type	12-pole M12 connector (shared with Digital I/O and Digital Synchronization)
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F) NOTE: The operating temperature range assumes that the camera is mounted on the base support (included in the package) or a similar type of heatsink.
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none">• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 40 (IEC 60529) with base support mounted
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	0.200 kg (0.44 lb.)
Camera size (L × W × H)	106 × 40 × 43 mm (4.2 × 1.6 × 1.7 in.)
Tripod mounting	1 × UNC ¼"-20 (with Base support accessory, included in the delivery box)
Base mounting	4 × M3 thread mounting holes (bottom)
Housing material	Magnesium and aluminum

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Base support• Printed documentation
Packaging, weight	
Packaging, size	295 × 200 × 105 mm (11.6 × 7.9 × 4.1 in.)
EAN-13	7332558010600
UPC-12	845188011277
Country of origin	Sweden

Supplies & accessories:

- T951004ACC; Ethernet cable CAT6, 2 m/6.6 ft.
- T198349; Base support
- T198348; Cable kit Mains (UK,EU,US)
- T198392; Table stand kit
- T911183; Gigabit PoE injector 16 W, with multi-plugs
- T127605ACC; Cable M12 Pigtail
- T127606ACC; Cable M12 Sync
- T198594ACC; Transport case Ax5
- T199356; FLIR Ax5 accessory starter kit
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

P/N: 73525-0101

Revision

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Website

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Customer support

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General description	
The FLIR A65 has features and functions that make it the natural choice for anyone who uses PC software to solve problems and for whom 640 × 512 pixel resolution is sufficient.	
Among its main features are GigE Vision and GenICam compliance, which makes it plug-and-play when used with software packages such as IMAQ Vision and Halcon.	
Key features:	
<ul style="list-style-type: none"> • Very affordable. • Compact (40 mm × 43 mm × 106 mm). • GigE Vision and GenICam compliant. • GigE Vision lockable connector. • PoE (power over Ethernet). • 8-bit 640 × 512 pixel images streamed at 7.5 Hz, signal linear • 14-bit 640 × 512 pixel images streamed at 7.5 Hz, signal and temperature linear • Synchronization between cameras possible. • 1x+1x GPIO. • Compliant with any software that supports GenICam, including National Instruments IMAQ Vision, Stemmers Common Vision Blox, and COGNEX Vision Pro. 	
Typical applications:	
<ul style="list-style-type: none"> • Automation and thermal machine vision. • Entry level "high-speed" R&D. 	

Imaging and optical data	
IR resolution	640 × 512 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	25° × 20°
Focal length	25 mm (0.98 in.)
Spatial resolution (IFOV)	0.68 mrad
F-number	1.25
Image frequency	7.5 Hz
Focus	Fixed

Detector data	
Detector type	Focal plane array (FPA), uncooled VOX microbolometer
Spectral range	7.5–13 μm
Detector pitch	17 μm
Detector time constant	Typical 12 ms

Measurement	
Object temperature range	<ul style="list-style-type: none"> • -25 to +135°C (-13 to 275°F) • -40 to +550°C (-40 to +1022°F)
Accuracy	±5°C (±9°F) or ±5% of reading



FLIR A65 f=25 mm (7.5 Hz)

P/N: 73525-0101

Revision

45763

Last modified

2017-10-12 13:00 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.5 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	GigE Vision ver. 1.2 Client API GenICam compliant
Ethernet, image streaming	8-bit monochrome @ 7.5 Hz <ul style="list-style-type: none"> • Signal linear/ DDE • Automatic/ Manual • Flip H&V 14-bit 640 × 512 pixels @ 7.5 Hz <ul style="list-style-type: none"> • Signal linear/ DDE • Temperature linear GigE Vision and GenICam compatible
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0 Power
Ethernet, protocols	TCP, UDP, ICMP, IGMP, DHCP, GigEVision

Digital input/output	
Digital input, purpose	General purpose
Digital input	1× opto-isolated, "0" <1.2 VDC, "1" = 2–25 VDC.
Digital output, purpose	General purpose output to ext. device (programmatically set)
Digital output	1× opto-isolated, 2–40 VDC, max. 185 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	2–40 VDC, max. 200 mA
Digital I/O, connector type	12-pole M12 connector (shared with Digital synchronization and External power)
Synchronization in, purpose	Frame synchronization in to control camera
Synchronization in	1×, non-isolated
Synchronization in, type	LVC Buffer @3.3V, "0" <0.8 V, "1">2.0 V.
Synchronization out, purpose	Frame synchronization out to control another FLIR Ax5 camera
Synchronization out	1×, non-isolated
Synchronization out, type	LVC Buffer @ 3.3V, "0"=24 MA max, "1"= -24 mA max.
Digital synchronization, connector type	12-pole M12 connector (shared with Digital I/O and External power)



FLIR A65 f=25 mm (7.5 Hz)

P/N: 73525-0101

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<http://support.flir.com>

Power system	
External power operation	12/24 VDC, < 3.5 W nominal < 6.0 W absolute max.
External power, connector type	12-pole M12 connector (shared with Digital I/O and Digital Synchronization)
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F) NOTE: The operating temperature range assumes that the camera is mounted on the base support (included in the package) or a similar type of heatsink.
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none">• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 40 (IEC 60529) with base support mounted
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	0.200 kg (0.44 lb.)
Camera size (L × W × H)	106 × 40 × 43 mm (4.2 × 1.6 × 1.7 in.)
Tripod mounting	1 × UNC ¼"-20 (with Base support accessory, included in the delivery box)
Base mounting	4 × M3 thread mounting holes (bottom)
Housing material	Magnesium and aluminum

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Base support• Printed documentation
Packaging, weight	
Packaging, size	295 × 200 × 105 mm (11.6 × 7.9 × 4.1 in.)
EAN-13	7332558010631
UPC-12	845188011307
Country of origin	Sweden

Supplies & accessories:

- T951004ACC; Ethernet cable CAT6, 2 m/6.6 ft.
- T198349; Base support
- T198348; Cable kit Mains (UK,EU,US)
- T198392; Table stand kit
- T911183; Gigabit PoE injector 16 W, with multi-plugs
- T127605ACC; Cable M12 Pigtail
- T127606ACC; Cable M12 Sync
- T198594ACC; Transport case Ax5
- T199356; FLIR Ax5 accessory starter kit
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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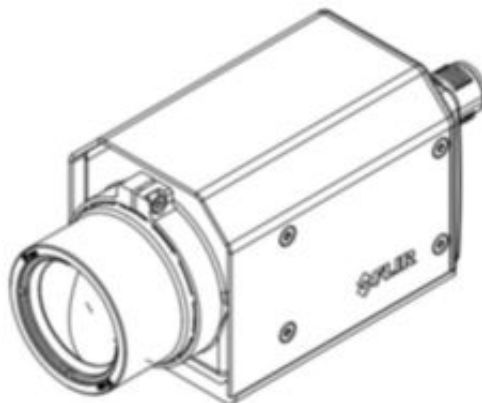
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Website

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General description

The FLIR A65 has features and functions that make it the natural choice for anyone who uses PC software to solve problems and for whom 640 × 512 pixel resolution is sufficient.

Among its main features are GigE Vision and GenICam compliance, which makes it plug-and-play when used with software packages such as IMAQ Vision and Halcon.

Key features:

- Very affordable.
- Compact.
- GigE Vision and GenICam compliant.
- GigE Vision lockable connector.
- PoE (power over Ethernet).
- 8-bit 640 × 512 pixel images streamed at 30 Hz, signal linear
- 14-bit 640 × 512 pixel images streamed at 30 Hz, signal and temperature linear
- Synchronization between cameras possible.
- 1x+1x GPIO.
- Compliant with any software that supports GenICam, including National Instruments IMAQ Vision, Stemmers Common Vision Blox, and COGNEX Vision Pro.

Typical applications:

- Automation and thermal machine vision.
- Entry level "high-speed" R&D.

Imaging and optical data

IR resolution	640 × 512 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	25° × 20°
Minimum focus distance	30 cm (12 in.)
Focal length	25 mm (0.98 in.)
Spatial resolution (IFOV)	0.68 mrad
F-number	1.25
Image frequency	30 Hz
Focus	Fixed

Detector data

Detector type	Focal plane array (FPA), uncooled VOX microbolometer
Spectral range	7.5–13 μm
Detector pitch	17 μm
Detector time constant	Typical 12 ms



FLIR A65 FOV 25 (30 Hz, ver. 2016)

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Website

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Measurement	
Object temperature range	<ul style="list-style-type: none"> -25 to +135°C (-13 to 275°F) -40 to +550°C (-40 to +1022°F)
Accuracy	±5°C (±9°F) or ±5% of reading

Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.5 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	GigE Vision ver. 1.2 Client API GenICam compliant
Ethernet, image streaming	8-bit monochrome @ 30 Hz <ul style="list-style-type: none"> Signal linear/ DDE Automatic/ Manual Flip H&V 14-bit 640 × 512 pixels @ 30 Hz <ul style="list-style-type: none"> Signal linear/ DDE Temperature linear GigE Vision and GenICam compatible
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0 Power
Ethernet, protocols	TCP, UDP, ICMP, IGMP, DHCP, GigEVision

Digital input/output	
Digital input, purpose	General purpose
Digital input	1× opto-isolated, "0" <1.2 VDC, "1" = 2–25 VDC.
Digital output, purpose	General purpose output to ext. device (programmatically set)
Digital output	1× opto-isolated, 2–40 VDC, max. 185 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	2–40 VDC, max. 200 mA
Digital I/O, connector type	12-pole M12 connector (shared with Digital synchronization and External power)
Synchronization in, purpose	Frame synchronization in to control camera
Synchronization in	1×, non-isolated
Synchronization in, type	LVC Buffer @3.3V, "0" <0.8 V, "1">2.0 V.
Synchronization out, purpose	Frame synchronization out to control another FLIR Ax5 camera
Synchronization out	1×, non-isolated



FLIR A65 FOV 25 (30 Hz, ver. 2016)

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Digital input/output	
Synchronization out, type	LVC Buffer @ 3.3V, "0"=24 MA max, "1"= -24 mA max.
Digital synchronization, connector type	12-pole M12 connector (shared with Digital I/O and External power)

Power system	
External power operation	12/24 VDC, < 3.5 W nominal < 6.0 W absolute max.
External power, connector type	12-pole M12 connector (shared with Digital I/O and Digital Synchronization)
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	-15°C to +60°C (+5°F to +140°F) NOTE: The operating temperature range assumes that the camera is mounted on the base support (included in the package) or a similar type of heatsink.
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none">• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 40 (IEC 60529) with base support mounted
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC60068-2-6) and MIL-STD810G

Physical data	
Camera size (L x W x H)	107.8 x 49.6 x 46.6 mm (4.2 x 1.9 x 1.8 in.)
Tripod mounting	1 x UNC 1/4"-20 (with Base support accessory, included in the delivery box)
Base mounting	4 x M3 thread mounting holes (bottom)
Housing material	Magnesium and aluminum

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Base support• Printed documentation
EAN-13	7332558011119
UPC-12	845188011987
Country of origin	Sweden

Supplies & accessories:

- T951004ACC; Ethernet cable CAT6, 2 m/6.6 ft.
- T198349; Base support
- T198348; Cable kit Mains (UK,EU,US)
- T127605ACC; Cable M12 Pigtail
- T127606ACC; Cable M12 Sync
- T199356; FLIR Ax5 accessory starter kit
- T198342ACC; Focus adjustment tool
- T911183; Gigabit PoE injector 16 W, with multi-plugs
- T198392; Table stand kit
- T198594ACC; Transport case Ax5
- T198584; FLIR Tools



FLIR A65 FOV 25 (30 Hz, ver. 2016)

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Website

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Customer support

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- T198583; FLIR Tools+ (download card incl. license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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General description	
<p>The FLIR A65 has features and functions that make it the natural choice for anyone who uses PC software to solve problems and for whom 640 × 512 pixel resolution is sufficient.</p> <p>Among its main features are GigE Vision and GenICam compliance, which makes it plug-and-play when used with software packages such as IMAQ Vision and Halcon.</p>	
Key features:	
<ul style="list-style-type: none"> • Very affordable. • Compact. • GigE Vision and GenICam compliant. • GigE Vision lockable connector. • PoE (power over Ethernet). • 8-bit 640 × 512 pixel images streamed at 30 Hz, signal linear • 14-bit 640 × 512 pixel images streamed at 30 Hz, signal and temperature linear • Synchronization between cameras possible. • 1x+1x GPIO. • Compliant with any software that supports GenICam, including National Instruments IMAQ Vision, Stemmers Common Vision Blox, and COGNEX Vision Pro. 	
Typical applications:	
<ul style="list-style-type: none"> • Automation and thermal machine vision. • Entry level "high-speed" R&D. 	

Imaging and optical data	
IR resolution	640 × 512 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	90° × 69°
Minimum focus distance	2.5 cm (0.98 in.)
Focal length	7.5 mm (0.30 in.)
Spatial resolution (IFOV)	2.27 mrad
F-number	1.4
Image frequency	30 Hz
Focus	Fixed

Detector data	
Detector type	Focal plane array (FPA), uncooled VOX microbolometer
Spectral range	7.5–13 μm
Detector pitch	17 μm
Detector time constant	Typical 12 ms

Measurement	
Object temperature range	<ul style="list-style-type: none"> • -25 to +135°C (-13 to 275°F) • -40 to +550°C (-40 to +1022°F)



FLIR A65 FOV 90 (30 Hz, ver. 2016)

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Website

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Customer support

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Measurement	
Accuracy	±5°C (±9°F) or ±5% of reading

Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.5 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	GigE Vision ver. 1.2 Client API GenICam compliant
Ethernet, image streaming	8-bit monochrome @ 30 Hz <ul style="list-style-type: none"> • Signal linear/ DDE • Automatic/ Manual • Flip H&V 14-bit 640 × 512 pixels @ 30 Hz <ul style="list-style-type: none"> • Signal linear/ DDE • Temperature linear GigE Vision and GenICam compatible
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0 Power
Ethernet, protocols	TCP, UDP, ICMP, IGMP, DHCP, GigEVision

Digital input/output	
Digital input, purpose	General purpose
Digital input	1× opto-isolated, "0" <1.2 VDC, "1" = 2–25 VDC.
Digital output, purpose	General purpose output to ext. device (programmatically set)
Digital output	1× opto-isolated, 2–40 VDC, max. 185 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	2–40 VDC, max. 200 mA
Digital I/O, connector type	12-pole M12 connector (shared with Digital synchronization and External power)
Synchronization in, purpose	Frame synchronization in to control camera
Synchronization in	1×, non-isolated
Synchronization in, type	LVC Buffer @ 3.3V, "0" <0.8 V, "1">2.0 V.
Synchronization out, purpose	Frame synchronization out to control another FLIR Ax5 camera
Synchronization out	1×, non-isolated
Synchronization out, type	LVC Buffer @ 3.3V, "0"=24 MA max, "1"= -24 mA max.



FLIR A65 FOV 90 (30 Hz, ver. 2016)

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Digital input/output	
Digital synchronization, connector type	12-pole M12 connector (shared with Digital I/O and External power)

Power system	
External power operation	12/24 VDC, < 3.5 W nominal < 6.0 W absolute max.
External power, connector type	12-pole M12 connector (shared with Digital I/O and Digital Synchronization)
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	–15°C to +60°C (+5°F to +140°F) NOTE: The operating temperature range assumes that the camera is mounted on the base support (included in the package) or a similar type of heatsink.
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none">• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 40 (IEC 60529) with base support mounted
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC60068-2-6) and MIL-STD810G

Physical data	
Camera size (L x W x H)	104.1 x 49.6 x 46.6 mm (4.1 x 1.9 x 1.8 in.)
Tripod mounting	1 x UNC ¼"-20 (with Base support accessory, included in the delivery box)
Base mounting	4 x M3 thread mounting holes (bottom)
Housing material	Magnesium and aluminum

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Base support• Focus adjustment tool• Printed documentation
EAN-13	7332558011621
UPC-12	845188012571
Country of origin	Sweden

Supplies & accessories:

- T951004ACC; Ethernet cable CAT6, 2 m/6.6 ft.
- T198349; Base support
- T198348; Cable kit Mains (UK,EU,US)
- T127605ACC; Cable M12 Pigtail
- T127606ACC; Cable M12 Sync
- T199356; FLIR Ax5 accessory starter kit
- T198342ACC; Focus adjustment tool
- T911183; Gigabit PoE injector 16 W, with multi-plugs
- T198392; Table stand kit
- T198594ACC; Transport case Ax5
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- T199233; FLIR Atlas SDK for .NET



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- T199234; FLIR Atlas SDK for MATLAB

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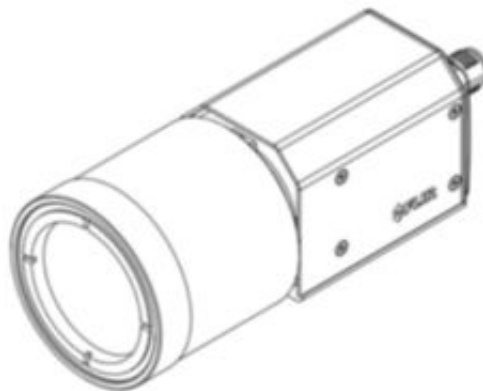
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General description	
<p>The FLIR A65 has features and functions that make it the natural choice for anyone who uses PC software to solve problems and for whom 640 × 512 pixel resolution is sufficient.</p> <p>Among its main features are GigE Vision and GenICam compliance, which makes it plug-and-play when used with software packages such as IMAQ Vision and Halcon.</p>	
<p>Key features:</p> <ul style="list-style-type: none"> • Very affordable. • Compact • GigE Vision and GenICam compliant. • GigE Vision lockable connector. • PoE (power over Ethernet). • 8-bit 640 × 512 pixel images streamed at 30 Hz, signal linear • 14-bit 640 × 512 pixel images streamed at 30 Hz, signal and temperature linear • Synchronization between cameras possible. • 1x+1x GPIO. • Compliant with any software that supports GenICam, including National Instruments IMAQ Vision, Stemmers Common Vision Blox, and COGNEX Vision Pro. 	
<p>Typical applications:</p> <ul style="list-style-type: none"> • Automation and thermal machine vision. • Entry level "high-speed" R&D. 	

Imaging and optical data	
IR resolution	640 × 512 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	12.4° × 9.92°
Minimum focus distance	1.5 m (59 in.)
Focal length	50 mm (2 in.)
Spatial resolution (IFOV)	0.340 mrad
F-number	1.2
Image frequency	30 Hz
Focus	Fixed

Detector data	
Detector type	Focal plane array (FPA), uncooled VOX microbolometer
Spectral range	7.5–13 μm
Detector pitch	17 μm
Detector time constant	Typical 12 ms



FLIR A65 FOV 12.4 (30 Hz, ver. 2016)

P/N: 75050-0101

Revision

47937

Last modified

2018-03-06 10:19 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Measurement	
Object temperature range	<ul style="list-style-type: none"> -25 to +135°C (-13 to 275°F) -40 to +550°C (-40 to +1022°F)
Accuracy	±5°C (±9°F) or ±5% of reading

Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.5 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	GigE Vision ver. 1.2 Client API GenICam compliant
Ethernet, image streaming	8-bit monochrome @ 30 Hz <ul style="list-style-type: none"> Signal linear/ DDE Automatic/ Manual Flip H&V 14-bit 640 × 512 pixels @ 30 Hz <ul style="list-style-type: none"> Signal linear/ DDE Temperature linear GigE Vision and GenICam compatible
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0 Power
Ethernet, protocols	TCP, UDP, ICMP, IGMP, DHCP, GigEVision

Digital input/output	
Digital input, purpose	General purpose
Digital input	1× opto-isolated, "0" <1.2 VDC, "1" = 2–25 VDC.
Digital output, purpose	General purpose output to ext. device (programmatically set)
Digital output	1× opto-isolated, 2–40 VDC, max. 185 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	2–40 VDC, max. 200 mA
Digital I/O, connector type	12-pole M12 connector (shared with Digital synchronization and External power)
Synchronization in, purpose	Frame synchronization in to control camera
Synchronization in	1×, non-isolated
Synchronization in, type	LVC Buffer @3.3V, "0" <0.8 V, "1">2.0 V.
Synchronization out, purpose	Frame synchronization out to control another FLIR Ax5 camera
Synchronization out	1×, non-isolated



FLIR A65 FOV 12.4 (30 Hz, ver. 2016)

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Website

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Customer support

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Digital input/output	
Synchronization out, type	LVC Buffer @ 3.3V, "0"=24 MA max, "1"= -24 mA max.
Digital synchronization, connector type	12-pole M12 connector (shared with Digital I/O and External power)

Power system	
External power operation	12/24 VDC, < 3.5 W nominal < 6.0 W absolute max.
External power, connector type	12-pole M12 connector (shared with Digital I/O and Digital Synchronization)
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	-15°C to +60°C (+5°F to +140°F) NOTE: The operating temperature range assumes that the camera is mounted on the base support (included in the package) or a similar type of heatsink.
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none">• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 40 (IEC 60529) with base support mounted
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC60068-2-6) and MIL-STD810G

Physical data	
Camera size (L x W x H)	144.1 x 58.4 x 58.4 mm (5.7 x 2.3 x 2.3 in.)
Tripod mounting	1 x UNC 1/4"-20 (with Base support accessory, included in the delivery box)
Base mounting	4 x M3 thread mounting holes (bottom)
Housing material	Magnesium and aluminum

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Base support• Printed documentation
EAN-13	7332558012314
UPC-12	845188013424
Country of origin	Sweden

Supplies & accessories:

- T951004ACC; Ethernet cable CAT6, 2 m/6.6 ft.
- T198349; Base support
- T198348; Cable kit Mains (UK,EU,US)
- T127605ACC; Cable M12 Pigtail
- T127606ACC; Cable M12 Sync
- T199356; FLIR Ax5 accessory starter kit
- T911183; Gigabit PoE injector 16 W, with multi-plugs
- T198392; Table stand kit
- T198594ACC; Transport case Ax5
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)



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Website

<http://www.flir.com>

Customer support

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- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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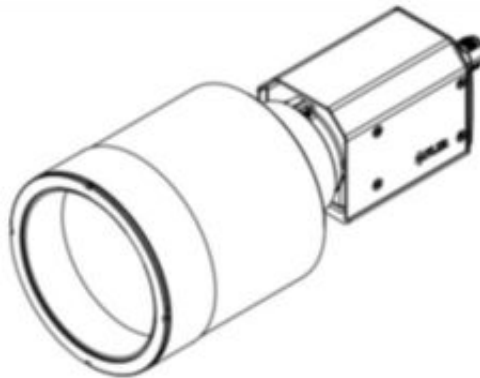
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General description

The FLIR A65 has features and functions that make it the natural choice for anyone who uses PC software to solve problems and for whom 640 × 512 pixel resolution is sufficient.

Among its main features are GigE Vision and GenICam compliance, which makes it plug-and-play when used with software packages such as IMAQ Vision and Halcon.

Key features:

- Very affordable.
- Compact
- GigE Vision and GenICam compliant.
- GigE Vision lockable connector.
- PoE (power over Ethernet).
- 8-bit 640 × 512 pixel images streamed at 30 Hz, signal linear
- 14-bit 640 × 512 pixel images streamed at 30 Hz, signal and temperature linear
- Synchronization between cameras possible.
- 1x+1x GPIO.
- Compliant with any software that supports GenICam, including National Instruments IMAQ Vision, Stemmers Common Vision Blox, and COGNEX Vision Pro.

Typical applications:

- Automation and thermal machine vision.
- Entry level "high-speed" R&D.

Imaging and optical data

IR resolution	640 × 512 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	6.2° × 4.96°
Minimum focus distance	7 m (23 ft.)
Focal length	100 mm (4 in.)
Spatial resolution (IFOV)	0.170 mrad
F-number	1.6
Image frequency	30 Hz
Focus	Fixed

Detector data

Detector type	Focal plane array (FPA), uncooled VOX microbolometer
Spectral range	7.5–13 μm
Detector pitch	17 μm
Detector time constant	Typical 12 ms



FLIR A65 FOV 6.2 (30 Hz, ver. 2016)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Measurement	
Object temperature range	<ul style="list-style-type: none">-25 to +135°C (-13 to 275°F)-40 to +550°C (-40 to +1022°F)
Accuracy	±5°C (±9°F) or ±5% of reading

Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.5 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters

Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	GigE Vision ver. 1.2 Client API GenICam compliant
Ethernet, image streaming	8-bit monochrome @ 30 Hz <ul style="list-style-type: none">Signal linear/ DDEAutomatic/ ManualFlip H&V 14-bit 640 × 512 pixels @ 30 Hz <ul style="list-style-type: none">Signal linear/ DDETemperature linear GigE Vision and GenICam compatible
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0 Power
Ethernet, protocols	TCP, UDP, ICMP, IGMP, DHCP, GigEVision

Digital input/output	
Digital input, purpose	General purpose
Digital input	1× opto-isolated, "0" <1.2 VDC, "1" = 2–25 VDC.
Digital output, purpose	General purpose output to ext. device (programmatically set)
Digital output	1× opto-isolated, 2–40 VDC, max. 185 mA
Digital I/O, isolation voltage	500 VRMS
Digital I/O, supply voltage	2–40 VDC, max. 200 mA
Digital I/O, connector type	12-pole M12 connector (shared with Digital synchronization and External power)
Synchronization in, purpose	Frame synchronization in to control camera
Synchronization in	1×, non-isolated
Synchronization in, type	LVC Buffer @3.3V, "0" <0.8 V, "1">2.0 V.
Synchronization out, purpose	Frame synchronization out to control another FLIR Ax5 camera
Synchronization out	1×, non-isolated



FLIR A65 FOV 6.2 (30 Hz, ver. 2016)

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Website

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Digital input/output	
Synchronization out, type	LVC Buffer @ 3.3V, "0"=24 MA max, "1"= -24 mA max.
Digital synchronization, connector type	12-pole M12 connector (shared with Digital I/O and External power)

Power system	
External power operation	12/24 VDC, < 3.5 W nominal < 6.0 W absolute max.
External power, connector type	12-pole M12 connector (shared with Digital I/O and Digital Synchronization)
Voltage	Allowed range 10–30 VDC

Environmental data	
Operating temperature range	-15°C to +60°C (+5°F to +140°F) NOTE: The operating temperature range assumes that the camera is mounted on the base support (included in the package) or a similar type of heatsink.
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
EMC	<ul style="list-style-type: none"> EN 61000-6-2 (Immunity) EN 61000-6-3 (Emission) FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 40 (IEC 60529) with base support mounted
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC60068-2-6) and MIL-STD810G

Physical data	
Camera size (L x W x H)	196.4 x 82.0 x 82.0 mm (7.7 x 3.2 x 3.2 in.)
Tripod mounting	1 x UNC 1/4"-20 (with Base support accessory, included in the delivery box)
Base mounting	4 x M3 thread mounting holes (bottom)
Housing material	Magnesium and aluminum

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> Infrared camera with lens Base support Printed documentation
EAN-13	7332558012321
UPC-12	845188013431
Country of origin	Sweden

Supplies & accessories:

- T951004ACC; Ethernet cable CAT6, 2 m/6.6 ft.
- T198349; Base support
- T198348; Cable kit Mains (UK,EU,US)
- T127605ACC; Cable M12 Pigtail
- T127606ACC; Cable M12 Sync
- T199356; FLIR Ax5 accessory starter kit
- T911183; Gigabit PoE injector 16 W, with multi-plugs
- T198392; Table stand kit
- T198594ACC; Transport case Ax5
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)



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Website

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Customer support

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- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

FLIR Cx series

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Website

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Customer support

<http://support.flir.com>



Imaging and optical data	
NETD	100 mK
Field of view	41° × 31°
Minimum focus distance	<ul style="list-style-type: none"> Thermal: 0.15 m (0.49 ft.) MSX: 1.0 m (3.3 ft.)
Focal length	1.54 mm (0.061 in.)
Spatial resolution (IFOV)	11 mrad
F-number	1.1
Image frequency	9 Hz
Focus	Focus free

Detector data	
Focal Plane Array	Uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm
IR sensor size	80 × 60

Image presentation	
Display (color)	<ul style="list-style-type: none"> 3.0 in. 320 × 240 pixels
Display, aspect ratio	4:3
Auto orientation	Yes
Touch screen	Yes, capacitive
Image adjustment (alignment calibration)	Yes

Image presentation modes	
Infrared image	Yes
Visual image	Yes
MSX	Yes
Gallery	Yes

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Measurement	
Object temperature range	-10°C to +150°C (14 to 302°F)
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.

Measurement analysis	
Spotmeter	On/off
Emissivity correction	Yes; matt/semi-matt/semi-glossy + custom value
Measurements correction	<ul style="list-style-type: none"> Emissivity Reflected apparent temperature

Set-up	
Color palettes	<ul style="list-style-type: none"> Iron Rainbow Rainbow HC Gray
Set-up commands	Local adaptation of units, language, date and time formats
Languages	Arabic, Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, Simpl. Chinese, Spanish, Swedish, Trad. Chinese, Turkish.

Lamp	
Output power	0.85 W
Field of view	60°

Service functions	
Camera software update	Using FLIR Tools

Storage of images	
Storage media	Internal memory store at least 500 sets of images
Image file format	<ul style="list-style-type: none"> Standard JPEG 14-bit measurement data included

Video streaming	
Non-radiometric IR video streaming	Yes
Visual video streaming	Yes

Digital camera	
Digital camera	640 × 480 pixels
Digital camera, focus	Fixed focus

Data communication interfaces	
USB, connector type	USB Micro-B: Data transfer to and from PC
USB, standard	USB 2.0

Power system	
Battery type	Rechargeable Li-ion polymer battery
Battery voltage	3.7 V
Battery operating time	2 h

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Customer support

<http://support.flir.com>

Power system	
Charging system	Charged inside the camera
Charging time	1.5 h
External power operation	<ul style="list-style-type: none"> AC adapter, 90–260 VAC input 5 V output to camera
Power management	Automatic shut-down

Environmental data	
Operating temperature range	–10°C to +50°C (14 to 122°F)
Storage temperature range	–40°C to +70°C (–40 to 158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
Relative humidity	95% relative humidity +25°C to +40°C (+77°F to +104°F) non condensing
EMC	<ul style="list-style-type: none"> WEEE 2012/19/EC RoHs 2011/65/EC C-Tick EN 61000-6-3 EN 61000-6-2 FCC 47 CFR Part 15 Class B
Magnetic fields	EN 61000-4-8
Battery regulations	UL 1642
Encapsulation	Camera housing and lens: IP 40 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight (incl. Battery)	0.13 kg (0.29 lb.)
Size (L × W × H)	125 × 80 × 24 mm (4.9 × 3.1 × 0.94 in.)
Tripod mounting	No
Housing material	<ul style="list-style-type: none"> PC and ABS, partially covered with TPE Aluminum
Color	Black and gray

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> Infrared camera Lanyard Power supply/charger with EU, UK, US, CN and Australian plugs Printed documentation USB cable
Packaging, weight	0.53 kg (1.17 lb.)
Packaging, size	175 × 115 × 75 mm (6.9 × 4.5 × 3.0 in.)
EAN-13	4743254001961
UPC-12	845188010614
Country of origin	Estonia

Supplies & accessories:

- T198532; Car charger
- T198534; Power supply USB-micro
- T198533; USB cable Std A <-> Micro B
- T199564; Tripod adapter
- T130129ACC; Pouch



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Website

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Customer support

<http://support.flir.com>

- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



NOTE: Only educational institutions are eligible for purchasing this product.

Imaging and optical data

NETD	100 mK
Field of view	41° × 31°
Minimum focus distance	<ul style="list-style-type: none"> Thermal: 0.15 m (0.49 ft.) MSX: 1.0 m (3.3 ft.)
Focal length	1.54 mm (0.061 in.)
Spatial resolution (IFOV)	11 mrad
F-number	1.1
Image frequency	9 Hz
Focus	Focus free

Detector data

Focal Plane Array	Uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm
IR sensor size	80 × 60

Image presentation

Display (color)	<ul style="list-style-type: none"> 3.0 in. 320 × 240 pixels
Display, aspect ratio	4:3
Auto orientation	Yes
Touch screen	Yes, capacitive
Image adjustment (alignment calibration)	Yes

Image presentation modes

Infrared image	Yes
Visual image	Yes
MSX	Yes
Gallery	Yes

Measurement

Object temperature range	-10°C to +150°C (14 to 302°F)
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.

Measurement analysis

Spotmeter	On/off
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FLIR C2 Educational Kit

P/N: 72002-0202

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Measurement analysis	
Emissivity correction	Yes; matt/semi-matt/semi-glossy + custom value
Measurements correction	<ul style="list-style-type: none">EmissivityReflected apparent temperature

Set-up	
Color palettes	<ul style="list-style-type: none">IronRainbowRainbow HCGray
Set-up commands	Local adaptation of units, language, date and time formats
Languages	Arabic, Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, Simpl. Chinese, Spanish, Swedish, Trad. Chinese, Turkish.

Lamp	
Output power	0.85 W
Field of view	60°

Service functions	
Camera software update	Using FLIR Tools

Storage of images	
Storage media	Internal memory store at least 500 sets of images
Image file format	<ul style="list-style-type: none">Standard JPEG14-bit measurement data included

Video streaming	
Non-radiometric IR video streaming	Yes
Visual video streaming	Yes

Digital camera	
Digital camera	640 × 480 pixels
Digital camera, focus	Fixed focus

Data communication interfaces	
USB, connector type	USB Micro-B: Data transfer to and from PC
USB, standard	USB 2.0

Power system	
Battery type	Rechargeable Li-ion polymer battery
Battery voltage	3.7 V
Battery operating time	2 h
Charging system	Charged inside the camera
Charging time	1.5 h
External power operation	<ul style="list-style-type: none">AC adapter, 90–260 VAC input5 V output to camera
Power management	Automatic shut-down



FLIR C2 Educational Kit

P/N: 72002-0202

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Environmental data	
Operating temperature range	-10°C to +50°C (14 to 122°F)
Storage temperature range	-40°C to +70°C (-40 to 158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
Relative humidity	95% relative humidity +25°C to +40°C (+77°F to +104°F) non condensing
EMC	<ul style="list-style-type: none">• WEEE 2012/19/EC• RoHS 2011/65/EC• C-Tick• EN 61000-6-3• EN 61000-6-2• FCC 47 CFR Part 15 Class B
Magnetic fields	EN 61000-4-8
Battery regulations	UL 1642
Encapsulation	Camera housing and lens: IP 40 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight (incl. Battery)	0.13 kg (0.29 lb.)
Size (L x W x H)	125 x 80 x 24 mm (4.9 x 3.1 x 0.94 in.)
Tripod mounting	Yes
Housing material	<ul style="list-style-type: none">• PC and ABS, partially covered with TPE• Aluminum
Color	Black and gray

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera• Lanyard• Power supply/charger with EU, UK, US, CN and Australian plugs• Printed documentation• Tripod mount• FLIR C2 educational kit card with download links for FLIR Tools+, FLIR ResearchIR Standard (incl. printed license key), and educational resources.• USB cable
Packaging, weight	0.53 kg (1.17 lb.)
Packaging, size	175 x 115 x 75 mm (6.9 x 4.5 x 3.0 in.)
EAN-13	4743254002067
UPC-12	845188011376
Country of origin	Estonia

Supplies & accessories:

- T198532; Car charger
- T198534; Power supply USB-micro
- T198533; USB cable Std A <-> Micro B
- T199564; Tripod adapter
- T130129ACC; Pouch
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

P/N: 72003-0303

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Imaging and optical data	
NETD	100 mK
Field of view	41° × 31°
Minimum focus distance	<ul style="list-style-type: none"> Thermal: 0.15 m (0.49 ft.) MSX: 1.0 m (3.3 ft.)
Focal length	1.54 mm (0.061 in.)
Spatial resolution (IFOV)	11 mrad
F-number	1.1
Image frequency	9 Hz
Focus	Focus free

Detector data	
Focal Plane Array	Uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm
IR sensor size	80 × 60

Image presentation	
Display (color)	<ul style="list-style-type: none"> 3.0 in. 320 × 240 pixels
Display, aspect ratio	4:3
Auto orientation	Yes
Touch screen	Yes, capacitive
Image adjustment (alignment calibration)	Yes

Image presentation modes	
Infrared image	Yes
Visual image	Yes
MSX	Yes
Gallery	Yes
Picture in Picture	IR area on visual image



FLIR C3 (incl. Wi-Fi)

P/N: 72003-0303

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Measurement	
Object temperature range	-10°C to +150°C (14 to 302°F)
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.

Measurement analysis	
Spotmeter	On/off
Area	Box with max./min.
Emissivity correction	Yes; matt/semi-matt/semi-glossy + custom value
Measurements correction	<ul style="list-style-type: none">EmissivityReflected apparent temperature

Set-up	
Color palettes	<ul style="list-style-type: none">IronRainbowRainbow HCGray
Set-up commands	Local adaptation of units, language, date and time formats
Languages	Arabic, Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, Simpl. Chinese, Spanish, Swedish, Trad. Chinese, Turkish.

Lamp	
Output power	0.85 W
Field of view	60°

Service functions	
Camera software update	Using FLIR Tools

Storage of images	
Storage media	Internal memory store at least 500 sets of images
Image file format	<ul style="list-style-type: none">Standard JPEG14-bit measurement data included

Video streaming	
Non-radiometric IR video streaming	Yes
Visual video streaming	Yes

Digital camera	
Digital camera	640 × 480 pixels
Digital camera, focus	Fixed focus

Data communication interfaces	
Wi-Fi	Peer-to-peer (ad hoc) or infrastructure (network)
USB, connector type	USB Micro-B: Data transfer to and from PC
USB, standard	USB 2.0



FLIR C3 (incl. Wi-Fi)

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Radio	
Wi-Fi	<ul style="list-style-type: none">Standard: 802.11 b/g/nFrequency range:<ul style="list-style-type: none">2400–2480 MHz5150–5260 MHzMax. output power: 15 dBm

Power system	
Battery type	Rechargeable Li-ion polymer battery
Battery voltage	3.7 V
Battery operating time	2 h
Charging system	Charged inside the camera
Charging time	1.5 h
External power operation	<ul style="list-style-type: none">AC adapter, 90–260 VAC input5 V output to camera
Power management	Automatic shut-down

Environmental data	
Operating temperature range	–10°C to +50°C (14 to 122°F)
Storage temperature range	–40°C to +70°C (–40 to 158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
Relative humidity	95% relative humidity +25°C to +40°C (+77°F to +104°F) non condensing
EMC	<ul style="list-style-type: none">WEEE 2012/19/ECRoHS 2011/65/ECC-TickEN 61000-6-3EN 61000-6-2FCC 47 CFR Part 15 Class B
Radio spectrum	<ul style="list-style-type: none">ETSI EN 300 328FCC 47 CSR Part 15RSS-247 Issue 2
Magnetic fields	EN 61000-4-8
Battery regulations	UL 1642
Encapsulation	Camera housing and lens: IP 40 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Drop	2 m (6.6 ft.)

Physical data	
Weight (incl. Battery)	0.13 kg (0.29 lb.)
Size (L × W × H)	125 × 80 × 24 mm (4.9 × 3.1 × 0.94 in.)
Tripod mounting	No
Housing material	<ul style="list-style-type: none">PC and ABS, partially covered with TPEAluminum
Color	Black and gray

Shipping information	
Packaging, type	Cardboard box



FLIR C3 (incl. Wi-Fi)

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>**Shipping information**

List of contents	<ul style="list-style-type: none">• Infrared camera• Lanyard• Power supply/charger with EU, UK, US, CN and Australian plugs• Printed documentation• USB cable• Tripod mount• Pouch
Packaging, weight	TBD
Packaging, size	175 × 110 × 105 mm (6.9 × 4.3 × 4.1 in.)
EAN-13	4743254002845
UPC-12	845188014094
Country of origin	Estonia

Supplies & accessories:

- T198532; Car charger
- T198534; Power supply USB-micro
- T198533; USB cable Std A <-> Micro B
- T199564; Tripod adapter
- T130129ACC; Pouch
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



NOTE: Only educational institutions are eligible for purchasing this product.

Imaging and optical data

NETD	100 mK
Field of view	41° × 31°
Minimum focus distance	<ul style="list-style-type: none"> Thermal: 0.15 m (0.49 ft.) MSX: 1.0 m (3.3 ft.)
Focal length	1.54 mm (0.061 in.)
Spatial resolution (IFOV)	11 mrad
F-number	1.1
Image frequency	9 Hz
Focus	Focus free

Detector data

Focal Plane Array	Uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm
IR sensor size	80 × 60

Image presentation

Display (color)	<ul style="list-style-type: none"> 3.0 in. 320 × 240 pixels
Display, aspect ratio	4:3
Auto orientation	Yes
Touch screen	Yes, capacitive
Image adjustment (alignment calibration)	Yes

Image presentation modes

Infrared image	Yes
Visual image	Yes
MSX	Yes
Gallery	Yes
Picture in Picture	IR area on visual image

Measurement

Object temperature range	-10°C to +150°C (14 to 302°F)
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.



FLIR C3 (incl. Wi-Fi) Educational Kit

P/N: 72003-0404

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Measurement analysis	
Spotmeter	On/off
Area	Box with max./min.
Emissivity correction	Yes; matt/semi-matt/semi-glossy + custom value
Measurements correction	<ul style="list-style-type: none">EmissivityReflected apparent temperature

Set-up	
Color palettes	<ul style="list-style-type: none">IronRainbowRainbow HCGray
Set-up commands	Local adaptation of units, language, date and time formats
Languages	Arabic, Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, Simpl. Chinese, Spanish, Swedish, Trad. Chinese, Turkish.

Lamp	
Output power	0.85 W
Field of view	60°

Service functions	
Camera software update	Using FLIR Tools

Storage of images	
Storage media	Internal memory store at least 500 sets of images
Image file format	<ul style="list-style-type: none">Standard JPEG14-bit measurement data included

Video streaming	
Non-radiometric IR video streaming	Yes
Visual video streaming	Yes

Digital camera	
Digital camera	640 × 480 pixels
Digital camera, focus	Fixed focus

Data communication interfaces	
Wi-Fi	Peer-to-peer (ad hoc) or infrastructure (network)
USB, connector type	USB Micro-B: Data transfer to and from PC
USB, standard	USB 2.0

Radio	
Wi-Fi	<ul style="list-style-type: none">Standard: 802.11 b/g/nFrequency range:<ul style="list-style-type: none">2400–2480 MHz5150–5260 MHzMax. output power: 15 dBm



FLIR C3 (incl. Wi-Fi) Educational Kit

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Power system	
Battery type	Rechargeable Li-ion polymer battery
Battery voltage	3.7 V
Battery operating time	2 h
Charging system	Charged inside the camera
Charging time	1.5 h
External power operation	<ul style="list-style-type: none">AC adapter, 90–260 VAC input5 V output to camera
Power management	Automatic shut-down

Environmental data	
Operating temperature range	–10°C to +50°C (14 to 122°F)
Storage temperature range	–40°C to +70°C (–40 to 158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
Relative humidity	95% relative humidity +25°C to +40°C (+77°F to +104°F) non condensing
EMC	<ul style="list-style-type: none">WEEE 2012/19/ECRoHS 2011/65/ECC-TickEN 61000-6-3EN 61000-6-2FCC 47 CFR Part 15 Class B
Radio spectrum	<ul style="list-style-type: none">ETSI EN 300 328FCC 47 CSR Part 15RSS-247 Issue 2
Magnetic fields	EN 61000-4-8
Battery regulations	UL 1642
Encapsulation	Camera housing and lens: IP 40 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Drop	2 m (6.6 ft.)

Physical data	
Weight (incl. Battery)	0.13 kg (0.29 lb.)
Size (L × W × H)	125 × 80 × 24 mm (4.9 × 3.1 × 0.94 in.)
Tripod mounting	No
Housing material	<ul style="list-style-type: none">PC and ABS, partially covered with TPEAluminum
Color	Black and gray

Shipping information	
Packaging, type	Cardboard box



FLIR C3 (incl. Wi-Fi) Educational Kit

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Shipping information

List of contents	<ul style="list-style-type: none">• Infrared camera• Lanyard• Power supply/charger with EU, UK, US, CN and Australian plugs• Printed documentation• USB cable• Tripod mount• Pouch• FLIR C3 educational kit card with download links for FLIR Tools+, FLIR ResearchIR Standard (incl. printed license key), and educational resources.
Packaging, weight	TBD
Packaging, size	175 × 110 × 105 mm (6.9 × 4.3 × 4.1 in.)
EAN-13	4743254002852
UPC-12	845188014100
Country of origin	Estonia

Supplies & accessories:

- T198532; Car charger
- T198534; Power supply USB-micro
- T198533; USB cable Std A <-> Micro B
- T199564; Tripod adapter
- T130129ACC; Pouch
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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FLIR ETS3xx series

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P/N: 63950-1001

Revision

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Website

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Customer support

<http://support.flir.com>



General description	
<p>The FLIR ETS320 is FLIR's first electronic test bench camera, designed for a quick temperature check of PCB boards and electronic devices. The FLIR ETS320 is sensitive enough to detect subtle temperature difference with an accuracy of $\pm 3^{\circ}\text{C}$ (5.4°F), so you can quickly find hot spots and potential points of failure. The 320×240 pixel infrared detector offers more than 76 000 points of temperature measurement, eliminating the guesswork of legacy measurement tools. Designed specifically for bench-top work, the battery-powered FLIR ETS 320 connects to your PC for immediate analysis and sharing of thermal data.</p>	
<p>Benefits:</p> <ul style="list-style-type: none"> • Reduces test times: Quickly identify hot spots, thermal gradients, and potential points of failure. • Improves product design: Know where and when to add fans and heatsinks, and ensure products are operating within specification for their maximum lifetime. • Saves money: Improve rapid prototyping and reduce product development cycles. • Optimizes lab time: Battery powered and hands-free, and offers complete measurement and analysis in the camera. 	
<p>Key features:</p> <ul style="list-style-type: none"> • >76 000 points of non-contact temperature measurement at the push of a button. • 320×240 pixel detector provides crisp thermal imagery. • Time versus temperature measurement with FLIR Tools+. • Small-component measurement, down to $170 \mu\text{m}$ per pixel spot size. • Lens offers a 45° thermal view of the target for the quick detection of hot spots. • Records radiometric imagery in standard JPEG format for easier sharing. • $\pm 3\%$ accuracy promotes quality assurance and factory acceptance of PCBs. • Quickly mounts on the supplied stand for immediate use. • Crisp 3 in. LCD display provides immediate thermal feedback. • World-class software provided for advanced measurement corrections/capabilities. 	

Imaging and optical data	
IR resolution	320×240 pixels
Thermal sensitivity/NETD	$<0.06^{\circ}\text{C}$ (0.11°F)/ $<60 \text{ mK}$
Field of view (FOV)	$45^{\circ} \times 34^{\circ}$
Fixed focus distance	$70 \text{ mm} \pm 10 \text{ mm}$ (2.8 in. ± 0.4 in.)
Spatial resolution (IFOV)	2.6 mrad
F-number	1.5
Image frequency	9 Hz

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	$7.5\text{--}13 \mu\text{m}$

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Image presentation	
Display	3.0 in. 320 × 240 color LCD
Image adjustment	Automatic/manual

Measurement	
Object temperature range	-20°C to +250°C (-4°F to +482°F)
Accuracy	±3°C (±5.4°F) or ±3% of reading, whichever greatest, for ambient temperature 10°C (50°F) to 35°C (95°F) and object temperature above +0°C (+32°F)

Measurement analysis	
Spotmeter	Center spot
Area	Box with maximum/minimum
Emissivity correction	Variable from 0.1 to 1.0
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature

Set-up	
Color palettes	Black and white, iron, and rainbow
Set-up commands	Local adaptation of units, language, date and time formats

Video streaming	
Radiometric IR video streaming	Full dynamic to PC (FLIR Tools/Tools+) using USB
Non-radiometric IR video streaming	Uncompressed colorized video using USB

Storage of images	
File formats	Standard JPEG, 14-bit measurement data included

Data communication interfaces	
Interfaces	USB Micro: Data transfer to and from PC and Mac devices

Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	3.7 V
Battery operating time	Approximately 4 hours at 25°C (77°F) ambient temperature and typical use
Charging system	Battery is charged inside the unit
Charging time	2.5 hours to 90% capacity
Power management	Automatic shut-down
AC operation	AC adapter, 90–260 V AC input, 5 V DC output to camera

Environmental data	
Operating temperature range	10–40°C (50–104°F)
Storage temperature range	-40 to +70°C (-40 to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity



FLIR ETS320

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Environmental data	
Encapsulation	IP 40 (IEC 60529)
Directives and regulations	
Directives and regulations	<ul style="list-style-type: none">• EMC Directive 2014/30/EU• FCC 47 CFR Part 15 Class B Subpart B• WEEE Directive 2012/19/EC• Battery Directive 2006/66/EC• REACH Regulation EC 1907/2006• RoHS2 Directive 2011/65/EC
Physical data	
System weight, incl. battery	1.8 kg (4.0 lb.)
System size (L x W x H)	220 mm x 150 mm x 300 mm (8.7 in. x 5.9 in. x 11.8 in.)
Color	Black and gray
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera unit• USB cable• Power supply• FLIR Tools+• Printed documentation
Packaging, weight	2.9 kg (6.4 lb.)
Packaging, size (L x W x H)	290 mm x 170 mm x 378 mm (11.4 in. x 6.7 in. x 14.9 in.)
EAN-13	4743254002913
UPC-12	845188014186
Country of origin	Designed & Engineered by FLIR Systems, Sweden. Assembled in Taiwan.

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FLIR Ex series

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P/N: 63901-0101

Revision

41166

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

The FLIR Ex series cameras are point-and-shoot infrared cameras that give you access to the infrared world. A FLIR Ex series camera is an affordable replacement for an infrared thermometer, providing a thermal image with temperature information in every pixel. The new MSX and visual formats make the cameras incomparably easy to use.

The FLIR Ex series cameras are user-friendly, compact, and rugged, for use in harsh environments. The wide field of view makes them the perfect choice for building applications.

Benefits:

- Easy to use: The FLIR Ex series cameras are fully automatic and focus-free with an intuitive interface for simple measurements in thermal, visual, or MSX mode.
- Compact and rugged: The FLIR Ex series cameras' low weight of 0.575 kg and the accessory belt pouch make them easy to bring along at all times. Their rugged design can withstand a 2 m drop test, and ensures reliability, even in harsh environments.
- Ground breaking affordability: The FLIR Ex series cameras are the most affordable infrared cameras on the market.

Imaging and optical data

IR resolution	80 × 60 pixels
Thermal sensitivity/NETD	<0.15°C (0.27°F) / <150 mK
Field of view (FOV)	45° × 34°
Minimum focus distance	0.5 m (1.6 ft.)
Spatial resolution (IFOV)	10.3 mrad
F-number	1.5
Image frequency	9 Hz
Focus	Focus free

Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm

Image presentation

Display	3.0 in. 320 × 240 color LCD
Image adjustment	Automatic adjust/lock image

Image presentation modes

Image modes	Thermal MSX, Thermal, Thermal blending, Digital camera.
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FLIR E4

P/N: 63901-0101

Revision

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Image presentation modes	
Multi Spectral Dynamic Imaging (MSX)	IR image with enhanced detail presentation

Measurement	
Object temperature range	-20°C to +250°C (-4°F to +482°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading, for ambient temperature 10°C to 35°C (+50°F to 95°F) and object temperature above +0°C (+32°F)

Measurement analysis	
Spotmeter	Center spot
Emissivity correction	Variable from 0.1 to 1.0
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature

Set-up	
Color palettes	Black and white, iron and rainbow
Set-up commands	Local adaptation of units, language, date and time formats

Storage of images	
File formats	Standard JPEG, 14-bit measurement data included

Digital camera	
Digital camera, resolution	640 × 480
Digital camera, FOV	55° × 43°

Data communication interfaces	
Interfaces	USB Micro: Data transfer to and from PC and Mac device

Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	3.6 V
Battery operating time	Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use
Charging system	Battery is charged inside the camera or in specific charger.
Charging time	2.5 hours to 90% capacity in camera. 2 hours in charger.
Power management	Automatic shut-down
AC operation	AC adapter, 90–260 VAC input, 5 VDC output to camera

Environmental data	
Operating temperature range	-15°C to +50°C (+5°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity

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Environmental data	
EMC	<ul style="list-style-type: none"> • WEEE 2012/19/EC • RoHS 2011/65/EC • C-Tick • EN 61000-6-3 • EN 61000-6-2 • FCC 47 CFR Part 15 Class B
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Drop	2 m (6.6 ft.)

Physical data	
Camera weight, incl. battery	0.575 kg (1.27 lb.)
Camera size (L x W x H)	244 x 95 x 140 mm (9.6 x 3.7 x 5.5 in.)
Color	Black and gray

Certifications	
Certification	UL, CSA, CE, PSE and CCC

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Infrared camera • Hard transport case • Battery (inside camera) • USB cable • Power supply/charger with EU, UK, US and Australian plugs • Printed documentation
Packaging, weight	2.9 kg (6.4 lb.)
Packaging, size	385 x 165 x 315 mm (15.2 x 6.5 x 12.4 in.)
EAN-13	4743254000995
UPC-12	845188004941
Country of origin	Estonia

Supplies & accessories:

- T911093; Tool belt
- T911689ACC; Pouch
- T198528; Hard transport case FLIR Ex-series
- T198531; Battery charger incl power supply
- T198532; Car charger
- T198534; Power supply USB-micro
- T198529; Pouch FLIR Ex and ix series
- T198533; USB cable Std A <-> Micro B
- T199362ACC; Battery Li-ion 3.6 V, 2.6 Ah, 9.4 Wh
- T198583; FLIR Tools+ (download card incl. license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

P/N: 63906-0604

Revision

43546

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2017-06-28 14:27 UTC+1

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Website

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Customer support

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General description

The FLIR Ex series cameras are point-and-shoot infrared cameras that give you access to the infrared world. A FLIR Ex series camera is an affordable replacement for an infrared thermometer, providing a thermal image with temperature information in every pixel. The new MSX and visual formats make the cameras incomparably easy to use.

The FLIR Ex series cameras are user-friendly, compact, and rugged, for use in harsh environments. The wide field of view makes them the perfect choice for building applications.

Benefits:

- Easy to use: The FLIR Ex series cameras are fully automatic and focus-free with an intuitive interface for simple measurements in thermal, visual, or MSX mode.
- Compact and rugged: The FLIR Ex series cameras' low weight of 0.575 kg and the accessory belt pouch make them easy to bring along at all times. Their rugged design can withstand a 2 m drop test, and ensures reliability, even in harsh environments.
- Ground breaking affordability: The FLIR Ex series cameras are the most affordable infrared cameras on the market.

Imaging and optical data

IR resolution	80 × 60 pixels
Thermal sensitivity/NETD	<0.15°C (0.27°F) / <150 mK
Field of view (FOV)	45° × 34°
Minimum focus distance	0.5 m (1.6 ft.)
Spatial resolution (IFOV)	10.3 mrad
F-number	1.5
Image frequency	9 Hz
Focus	Focus free

Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm

Image presentation

Display	3.0 in. 320 × 240 color LCD
Image adjustment	Automatic adjust/lock image

Image presentation modes

Image modes	Thermal MSX, Thermal, Picture-in-Picture, Thermal blending, Digital camera.
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FLIR E4 (incl. Wi-Fi)

P/N: 63906-0604

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Website

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Image presentation modes	
Multi Spectral Dynamic Imaging (MSX)	IR image with enhanced detail presentation
Picture-in-Picture	IR area on visual image

Measurement	
Object temperature range	-20°C to +250°C (-4°F to +482°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading, for ambient temperature 10°C to 35°C (+50°F to 95°F) and object temperature above +0°C (+32°F)

Measurement analysis	
Spotmeter	Center spot
Area	Box with max./min.
Isotherm	Above/below/interval
Emissivity correction	Variable from 0.1 to 1.0
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature

Set-up	
Color palettes	Black and white, iron and rainbow
Set-up commands	Local adaptation of units, language, date and time formats

Storage of images	
File formats	Standard JPEG, 14-bit measurement data included

Digital camera	
Digital camera, resolution	640 × 480
Digital camera, FOV	55° × 43°

Data communication interfaces	
Interfaces	USB Micro: Data transfer to and from PC and Mac device
Wi-Fi	Peer-to-peer (ad hoc) or infrastructure (network)

Radio	
Wi-Fi	<ul style="list-style-type: none">Standard: 802.11 b/g/nFrequency range:<ul style="list-style-type: none">2400–2480 MHz5150–5260 MHzMax. output power: 15 dBm

Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	3.6 V
Battery operating time	Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use
Charging system	Battery is charged inside the camera or in specific charger.
Charging time	2.5 hours to 90% capacity in camera. 2 hours in charger.



FLIR E4 (incl. Wi-Fi)

P/N: 63906-0604

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Power system	
Power management	Automatic shut-down
AC operation	AC adapter, 90–260 VAC input, 5 VDC output to camera

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity
EMC	<ul style="list-style-type: none">• WEEE 2012/19/EC• RoHs 2011/65/EC• C-Tick• EN 61000-6-3• EN 61000-6-2• FCC 47 CFR Part 15 Class B
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC 47 CSR Part 15• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Drop	2 m (6.6 ft.)

Physical data	
Camera weight, incl. battery	0.575 kg (1.27 lb.)
Camera size (L × W × H)	244 × 95 × 140 mm (9.6 × 3.7 × 5.5 in.)
Color	Black and gray

Certifications	
Certification	UL, CSA, CE, PSE and CCC

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera• Hard transport case• Battery (inside camera)• USB cable• Power supply/charger with EU, UK, US and Australian plugs• Printed documentation
Packaging, weight	2.9 kg (6.4 lb.)
Packaging, size	385 × 165 × 315 mm (15.2 × 6.5 × 12.4 in.)
EAN-13	4743254002869
UPC-12	845188014117
Country of origin	Estonia

Supplies & accessories:

- T911093; Tool belt
- T911689ACC; Pouch
- T198528; Hard transport case FLIR Ex-series
- T198531; Battery charger incl power supply
- T198532; Car charger
- T198534; Power supply USB-micro
- T198529; Pouch FLIR Ex and ix series
- T198533; USB cable Std A <-> Micro B
- T199362ACC; Battery Li-ion 3.6 V, 2.6 Ah, 9.4 Wh
- T198583; FLIR Tools+ (download card incl. license key)



FLIR E4 (incl. Wi-Fi)

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- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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Website

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Customer support

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General description	
<p>The FLIR Ex series cameras are point-and-shoot infrared cameras that give you access to the infrared world. A FLIR Ex series camera is an affordable replacement for an infrared thermometer, providing a thermal image with temperature information in every pixel. The new MSX and visual formats make the cameras incomparably easy to use.</p> <p>The FLIR Ex series cameras are user-friendly, compact, and rugged, for use in harsh environments. The wide field of view makes them the perfect choice for building applications.</p>	
Benefits:	
<ul style="list-style-type: none"> • Easy to use: The FLIR Ex series cameras are fully automatic and focus-free with an intuitive interface for simple measurements in thermal, visual, or MSX mode. • Compact and rugged: The FLIR Ex series cameras' low weight of 0.575 kg and the accessory belt pouch make them easy to bring along at all times. Their rugged design can withstand a 2 m drop test, and ensures reliability, even in harsh environments. • Ground breaking affordability: The FLIR Ex series cameras are the most affordable infrared cameras on the market. 	
Imaging and optical data	
IR resolution	120 × 90 pixels
Thermal sensitivity/NETD	<0.10°C (0.27°F) / <100 mK
Field of view (FOV)	45° × 34°
Minimum focus distance	0.5 m (1.6 ft.)
Spatial resolution (IFOV)	6.9 mrad
F-number	1.5
Image frequency	9 Hz
Focus	Focus free
Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
Image presentation	
Display	3.0 in. 320 × 240 color LCD
Image adjustment	Automatic adjust/lock image
Image presentation modes	
Image modes	Thermal MSX, Thermal, Thermal blending, Digital camera.



FLIR E5

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Image presentation modes	
Multi Spectral Dynamic Imaging (MSX)	IR image with enhanced detail presentation

Measurement	
Object temperature range	-20°C to +250°C (-4°F to +482°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading, for ambient temperature 10°C to 35°C (+50°F to 95°F) and object temperature above +0°C (+32°F)

Measurement analysis	
Spotmeter	Center spot
Area	Box with max./min.
Emissivity correction	Variable from 0.1 to 1.0
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature

Set-up	
Color palettes	Black and white, iron and rainbow
Set-up commands	Local adaptation of units, language, date and time formats

Storage of images	
File formats	Standard JPEG, 14-bit measurement data included

Digital camera	
Digital camera, resolution	640 × 480
Digital camera, FOV	55° × 43°

Data communication interfaces	
Interfaces	USB Micro: Data transfer to and from PC and Mac device

Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	3.6 V
Battery operating time	Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use
Charging system	Battery is charged inside the camera or in specific charger.
Charging time	2.5 hours to 90% capacity in camera. 2 hours in charger.
Power management	Automatic shut-down
AC operation	AC adapter, 90–260 VAC input, 5 VDC output to camera

Environmental data	
Operating temperature range	-15°C to +50°C (+5°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity

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Environmental data	
EMC	<ul style="list-style-type: none"> • WEEE 2012/19/EC • RoHs 2011/65/EC • C-Tick • EN 61000-6-3 • EN 61000-6-2 • FCC 47 CFR Part 15 Class B
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Drop	2 m (6.6 ft.)

Physical data	
Camera weight, incl. battery	0.575 kg (1.27 lb.)
Camera size (L x W x H)	244 x 95 x 140 mm (9.6 x 3.7 x 5.5 in.)
Color	Black and gray

Certifications	
Certification	UL, CSA, CE, PSE and CCC

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Infrared camera • Hard transport case • Battery (inside camera) • USB cable • Power supply/charger with EU, UK, US and Australian plugs • Printed documentation
Packaging, weight	2.9 kg (6.4 lb.)
Packaging, size	385 x 165 x 315 mm (15.2 x 6.5 x 12.4 in.)
EAN-13	4743254001114
UPC-12	845188005146
Country of origin	Estonia

Supplies & accessories:

- T911093; Tool belt
- T911689ACC; Pouch
- T198528; Hard transport case FLIR Ex-series
- T198531; Battery charger incl power supply
- T198532; Car charger
- T198534; Power supply USB-micro
- T198529; Pouch FLIR Ex and ix series
- T198533; USB cable Std A <-> Micro B
- T199362ACC; Battery Li-ion 3.6 V, 2.6 Ah, 9.4 Wh
- T198583; FLIR Tools+ (download card incl. license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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Website

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Customer support

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General description	
<p>The FLIR Ex series cameras are point-and-shoot infrared cameras that give you access to the infrared world. A FLIR Ex series camera is an affordable replacement for an infrared thermometer, providing a thermal image with temperature information in every pixel. The new MSX and visual formats make the cameras incomparably easy to use.</p> <p>The FLIR Ex series cameras are user-friendly, compact, and rugged, for use in harsh environments. The wide field of view makes them the perfect choice for building applications.</p>	
Benefits:	
<ul style="list-style-type: none"> • Easy to use: The FLIR Ex series cameras are fully automatic and focus-free with an intuitive interface for simple measurements in thermal, visual, or MSX mode. • Compact and rugged: The FLIR Ex series cameras' low weight of 0.575 kg and the accessory belt pouch make them easy to bring along at all times. Their rugged design can withstand a 2 m drop test, and ensures reliability, even in harsh environments. • Ground breaking affordability: The FLIR Ex series cameras are the most affordable infrared cameras on the market. 	
Imaging and optical data	
IR resolution	120 × 90 pixels
Thermal sensitivity/NETD	<0.10°C (0.27°F) / <100 mK
Field of view (FOV)	45° × 34°
Minimum focus distance	0.5 m (1.6 ft.)
Spatial resolution (IFOV)	6.9 mrad
F-number	1.5
Image frequency	9 Hz
Focus	Focus free
Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
Image presentation	
Display	3.0 in. 320 × 240 color LCD
Image adjustment	Automatic adjust/lock image
Image presentation modes	
Image modes	Thermal MSX, Thermal, Picture-in-Picture, Thermal blending, Digital camera.



FLIR E5 (incl. Wi-Fi)

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Image presentation modes	
Multi Spectral Dynamic Imaging (MSX)	IR image with enhanced detail presentation
Picture-in-Picture	IR area on visual image

Measurement	
Object temperature range	-20°C to +250°C (-4°F to +482°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading, for ambient temperature 10°C to 35°C (+50°F to 95°F) and object temperature above +0°C (+32°F)

Measurement analysis	
Spotmeter	Center spot
Area	Box with max./min.
Isotherm	Above/below/interval
Emissivity correction	Variable from 0.1 to 1.0
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature

Set-up	
Color palettes	Black and white, iron and rainbow
Set-up commands	Local adaptation of units, language, date and time formats

Storage of images	
File formats	Standard JPEG, 14-bit measurement data included

Digital camera	
Digital camera, resolution	640 × 480
Digital camera, FOV	55° × 43°

Data communication interfaces	
Interfaces	USB Micro: Data transfer to and from PC and Mac device
Wi-Fi	Peer-to-peer (ad hoc) or infrastructure (network)

Radio	
Wi-Fi	<ul style="list-style-type: none">Standard: 802.11 b/g/nFrequency range:<ul style="list-style-type: none">2400–2480 MHz5150–5260 MHzMax. output power: 15 dBm

Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	3.6 V
Battery operating time	Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use
Charging system	Battery is charged inside the camera or in specific charger.
Charging time	2.5 hours to 90% capacity in camera. 2 hours in charger.



FLIR E5 (incl. Wi-Fi)

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Website

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Power system	
Power management	Automatic shut-down
AC operation	AC adapter, 90–260 VAC input, 5 VDC output to camera

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity
EMC	<ul style="list-style-type: none">• WEEE 2012/19/EC• RoHS 2011/65/EC• C-Tick• EN 61000-6-3• EN 61000-6-2• FCC 47 CFR Part 15 Class B
Radio spectrum	<ul style="list-style-type: none">• Standard: 802.11 b/g/n• Frequency range:<ul style="list-style-type: none">• 2400–2480 MHz• 5150–5260 MHz• Max. output power: 15 dBm
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Drop	2 m (6.6 ft.)

Physical data	
Camera weight, incl. battery	0.575 kg (1.27 lb.)
Camera size (L × W × H)	244 × 95 × 140 mm (9.6 × 3.7 × 5.5 in.)
Color	Black and gray

Certifications	
Certification	UL, CSA, CE, PSE and CCC

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera• Hard transport case• Battery (inside camera)• USB cable• Power supply/charger with EU, UK, US and Australian plugs• Printed documentation
Packaging, weight	2.9 kg (6.4 lb.)
Packaging, size	385 × 165 × 315 mm (15.2 × 6.5 × 12.4 in.)
EAN-13	4743254002876
UPC-12	845188014124
Country of origin	Estonia

Supplies & accessories:

- T911093; Tool belt
- T911689ACC; Pouch
- T198528; Hard transport case FLIR Ex-series
- T198531; Battery charger incl power supply
- T198532; Car charger
- T198534; Power supply USB-micro
- T198529; Pouch FLIR Ex and ix series
- T198533; USB cable Std A <-> Micro B



FLIR E5 (incl. Wi-Fi)

P/N: 63909-0904

Revision

41166

Last modified

2017-03-14 09:13 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- T199362ACC; Battery Li-ion 3.6 V, 2.6 Ah, 9.4 Wh
- T198583; FLIR Tools+ (download card incl. license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

P/N: 63902-0202

Revision

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General description

The FLIR Ex series cameras are point-and-shoot infrared cameras that give you access to the infrared world. A FLIR Ex series camera is an affordable replacement for an infrared thermometer, providing a thermal image with temperature information in every pixel. The new MSX and visual formats make the cameras incomparably easy to use.

The FLIR Ex series cameras are user-friendly, compact, and rugged, for use in harsh environments. The wide field of view makes them the perfect choice for building applications.

Benefits:

- Easy to use: The FLIR Ex series cameras are fully automatic and focus-free with an intuitive interface for simple measurements in thermal, visual, or MSX mode.
- Compact and rugged: The FLIR Ex series cameras' low weight of 0.575 kg and the accessory belt pouch make them easy to bring along at all times. Their rugged design can withstand a 2 m drop test, and ensures reliability, even in harsh environments.
- Ground breaking affordability: The FLIR Ex series cameras are the most affordable infrared cameras on the market.

Imaging and optical data

IR resolution	160 × 120 pixels
Thermal sensitivity/NETD	<0.06°C (0.11°F) / <60 mK
Field of view (FOV)	45° × 34°
Minimum focus distance	0.5 m (1.6 ft.)
Spatial resolution (IFOV)	5.2 mrad
F-number	1.5
Image frequency	9 Hz
Focus	Focus free

Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm

Image presentation

Display	3.0 in. 320 × 240 color LCD
Image adjustment	Automatic/Manual

Image presentation modes

Image modes	Thermal MSX, Thermal, Picture-in-Picture, Thermal blending, Digital camera.
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FLIR E6

P/N: 63902-0202

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Image presentation modes	
Multi Spectral Dynamic Imaging (MSX)	IR image with enhanced detail presentation
Picture in Picture	IR area on visual image

Measurement	
Object temperature range	-20°C to +250°C (-4°F to +482°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading, for ambient temperature 10°C to 35°C (+50°F to 95°F) and object temperature above +0°C (+32°F)

Measurement analysis	
Spotmeter	Center spot
Area	Box with max./min.
Emissivity correction	Variable from 0.1 to 1.0
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature

Set-up	
Color palettes	Black and white, iron and rainbow
Set-up commands	Local adaptation of units, language, date and time formats

Storage of images	
File formats	Standard JPEG, 14-bit measurement data included

Digital camera	
Digital camera, resolution	640 × 480
Digital camera, FOV	55° × 43°

Data communication interfaces	
Interfaces	USB Micro: Data transfer to and from PC and Mac device

Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	3.6 V
Battery operating time	Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use
Charging system	Battery is charged inside the camera or in specific charger.
Charging time	2.5 hours to 90% capacity in camera. 2 hours in charger.
Power management	Automatic shut-down
AC operation	AC adapter, 90–260 VAC input, 5 VDC output to camera

Environmental data	
Operating temperature range	-15°C to +50°C (+5°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity

P/N: 63902-0202

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Website

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Environmental data	
EMC	<ul style="list-style-type: none"> • WEEE 2012/19/EC • RoHS 2011/65/EC • C-Tick • EN 61000-6-3 • EN 61000-6-2 • FCC 47 CFR Part 15 Class B
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Drop	2 m (6.6 ft.)

Physical data	
Camera weight, incl. battery	0.575 kg (1.27 lb.)
Camera size (L x W x H)	244 x 95 x 140 mm (9.6 x 3.7 x 5.5 in.)
Color	Black and gray

Certifications	
Certification	UL, CSA, CE, PSE and CCC

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Infrared camera • Hard transport case • Battery (inside camera) • USB cable • Power supply/charger with EU, UK, US and Australian plugs • Printed documentation
Packaging, weight	2.9 kg (6.4 lb.)
Packaging, size	385 x 165 x 315 mm (15.2 x 6.5 x 12.4 in.)
EAN-13	4743254001008
UPC-12	845188004958
Country of origin	Estonia

Supplies & accessories:

- T911093; Tool belt
- T911689ACC; Pouch
- T198528; Hard transport case FLIR Ex-series
- T198531; Battery charger incl power supply
- T198532; Car charger
- T198534; Power supply USB-micro
- T198529; Pouch FLIR Ex and ix series
- T198533; USB cable Std A <-> Micro B
- T199362ACC; Battery Li-ion 3.6 V, 2.6 Ah, 9.4 Wh
- T198583; FLIR Tools+ (download card incl. license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

P/N: 63907-0704

Revision

43546

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2017-06-28 14:27 UTC+1

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Website

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Customer support

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General description

The FLIR Ex series cameras are point-and-shoot infrared cameras that give you access to the infrared world. A FLIR Ex series camera is an affordable replacement for an infrared thermometer, providing a thermal image with temperature information in every pixel. The new MSX and visual formats make the cameras incomparably easy to use.

The FLIR Ex series cameras are user-friendly, compact, and rugged, for use in harsh environments. The wide field of view makes them the perfect choice for building applications.

Benefits:

- Easy to use: The FLIR Ex series cameras are fully automatic and focus-free with an intuitive interface for simple measurements in thermal, visual, or MSX mode.
- Compact and rugged: The FLIR Ex series cameras' low weight of 0.575 kg and the accessory belt pouch make them easy to bring along at all times. Their rugged design can withstand a 2 m drop test, and ensures reliability, even in harsh environments.
- Ground breaking affordability: The FLIR Ex series cameras are the most affordable infrared cameras on the market.

Imaging and optical data

IR resolution	160 × 120 pixels
Thermal sensitivity/NETD	<0.06°C (0.11°F) / <60 mK
Field of view (FOV)	45° × 34°
Minimum focus distance	0.5 m (1.6 ft.)
Spatial resolution (IFOV)	5.2 mrad
F-number	1.5
Image frequency	9 Hz
Focus	Focus free

Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm

Image presentation

Display	3.0 in. 320 × 240 color LCD
Image adjustment	Automatic/Manual

Image presentation modes

Image modes	Thermal MSX, Thermal, Picture-in-Picture, Thermal blending, Digital camera.
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FLIR E6 (incl. Wi-Fi)

P/N: 63907-0704

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Website

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Customer support

<http://support.flir.com>

Image presentation modes	
Multi Spectral Dynamic Imaging (MSX)	IR image with enhanced detail presentation
Picture-in-Picture	IR area on visual image

Measurement	
Object temperature range	-20°C to +250°C (-4°F to +482°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading, for ambient temperature 10°C to 35°C (+50°F to 95°F) and object temperature above +0°C (+32°F)

Measurement analysis	
Spotmeter	Center spot
Area	Box with max./min.
Isotherm	Above/below/interval
Emissivity correction	Variable from 0.1 to 1.0
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature

Set-up	
Color palettes	Black and white, iron and rainbow
Set-up commands	Local adaptation of units, language, date and time formats

Storage of images	
File formats	Standard JPEG, 14-bit measurement data included

Digital camera	
Digital camera, resolution	640 × 480
Digital camera, FOV	55° × 43°

Data communication interfaces	
Interfaces	USB Micro: Data transfer to and from PC and Mac device
Wi-Fi	Peer-to-peer (ad hoc) or infrastructure (network)

Radio	
Wi-Fi	<ul style="list-style-type: none">Standard: 802.11 b/g/nFrequency range:<ul style="list-style-type: none">2400–2480 MHz5150–5260 MHzMax. output power: 15 dBm

Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	3.6 V
Battery operating time	Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use
Charging system	Battery is charged inside the camera or in specific charger.
Charging time	2.5 hours to 90% capacity in camera. 2 hours in charger.



FLIR E6 (incl. Wi-Fi)

P/N: 63907-0704

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Website

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Customer support

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Power system	
Power management	Automatic shut-down
AC operation	AC adapter, 90–260 VAC input, 5 VDC output to camera

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity
EMC	<ul style="list-style-type: none">• WEEE 2012/19/EC• RoHS 2011/65/EC• C-Tick• EN 61000-6-3• EN 61000-6-2• FCC 47 CFR Part 15 Class B
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC 47 CSR Part 15• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Drop	2 m (6.6 ft.)

Physical data	
Camera weight, incl. battery	0.575 kg (1.27 lb.)
Camera size (L × W × H)	244 × 95 × 140 mm (9.6 × 3.7 × 5.5 in.)
Color	Black and gray

Certifications	
Certification	UL, CSA, CE, PSE and CCC

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera• Hard transport case• Battery (inside camera)• USB cable• Power supply/charger with EU, UK, US and Australian plugs• Printed documentation
Packaging, weight	2.9 kg (6.4 lb.)
Packaging, size	385 × 165 × 315 mm (15.2 × 6.5 × 12.4 in.)
EAN-13	4743254002883
UPC-12	845188014131
Country of origin	Estonia

Supplies & accessories:

- T911093; Tool belt
- T911689ACC; Pouch
- T198528; Hard transport case FLIR Ex-series
- T198531; Battery charger incl power supply
- T198532; Car charger
- T198534; Power supply USB-micro
- T198529; Pouch FLIR Ex and ix series
- T198533; USB cable Std A <-> Micro B
- T199362ACC; Battery Li-ion 3.6 V, 2.6 Ah, 9.4 Wh
- T198583; FLIR Tools+ (download card incl. license key)



FLIR E6 (incl. Wi-Fi)

P/N: 63907-0704

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Website

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Customer support

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- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

P/N: 63903-0303

Revision

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Website

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Customer support

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General description

The FLIR Ex series cameras are point-and-shoot infrared cameras that give you access to the infrared world. A FLIR Ex series camera is an affordable replacement for an infrared thermometer, providing a thermal image with temperature information in every pixel. The new MSX and visual formats make the cameras incomparably easy to use.

The FLIR Ex series cameras are user-friendly, compact, and rugged, for use in harsh environments. The wide field of view makes them the perfect choice for building applications.

Benefits:

- Easy to use: The FLIR Ex series cameras are fully automatic and focus-free with an intuitive interface for simple measurements in thermal, visual, or MSX mode.
- Compact and rugged: The FLIR Ex series cameras' low weight of 0.575 kg and the accessory belt pouch make them easy to bring along at all times. Their rugged design can withstand a 2 m drop test, and ensures reliability, even in harsh environments.
- Ground breaking affordability: The FLIR Ex series cameras are the most affordable infrared cameras on the market.

Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<0.06°C (0.11°F) / <60 mK
Field of view (FOV)	45° × 34°
Minimum focus distance	0.5 m (1.6 ft.)
Spatial resolution (IFOV)	2.6 mrad
F-number	1.5
Image frequency	9 Hz
Focus	Focus free

Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm

Image presentation

Display	3.0 in. 320 × 240 color LCD
Image adjustment	Automatic/Manual

Image presentation modes

Image modes	Thermal MSX, Thermal, Picture-in-Picture, Thermal blending, Digital camera.
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FLIR E8

P/N: 63903-0303

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Image presentation modes	
Multi Spectral Dynamic Imaging (MSX)	IR image with enhanced detail presentation
Picture in Picture	IR area on visual image

Measurement	
Object temperature range	-20°C to +250°C (-4°F to +482°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading, for ambient temperature 10°C to 35°C (+50°F to 95°F) and object temperature above +0°C (+32°F)

Measurement analysis	
Spotmeter	Center spot
Area	Box with max./min.
Emissivity correction	Variable from 0.1 to 1.0
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature

Set-up	
Color palettes	Black and white, iron and rainbow
Set-up commands	Local adaptation of units, language, date and time formats

Storage of images	
File formats	Standard JPEG, 14-bit measurement data included

Digital camera	
Digital camera, resolution	640 × 480
Digital camera, FOV	55° × 43°

Data communication interfaces	
Interfaces	USB Micro: Data transfer to and from PC and Mac device

Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	3.6 V
Battery operating time	Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use
Charging system	Battery is charged inside the camera or in specific charger.
Charging time	2.5 hours to 90% capacity in camera. 2 hours in charger.
Power management	Automatic shut-down
AC operation	AC adapter, 90-260 VAC input, 5 VDC output to camera

Environmental data	
Operating temperature range	-15°C to +50°C (+5°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity



FLIR E8

P/N: 63903-0303

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Environmental data	
EMC	<ul style="list-style-type: none">• WEEE 2012/19/EC• RoHs 2011/65/EC• C-Tick• EN 61000-6-3• EN 61000-6-2• FCC 47 CFR Part 15 Class B
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Drop	2 m (6.6 ft.)

Physical data	
Camera weight, incl. battery	0.575 kg (1.27 lb.)
Camera size (L x W x H)	244 x 95 x 140 mm (9.6 x 3.7 x 5.5 in.)
Color	Black and gray

Certifications	
Certification	UL, CSA, CE, PSE and CCC

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera• Hard transport case• Battery (2x)• USB cable• Power supply/charger with EU, UK, US and Australian plugs• Battery charger• Printed documentation
Packaging, weight	3.13 kg (6.9 lb.)
Packaging, size	385 x 165 x 315 mm (15.2 x 6.5 x 12.4 in.)
EAN-13	4743254001015
UPC-12	845188004965
Country of origin	Estonia

Supplies & accessories:

- T911093; Tool belt
- T911689ACC; Pouch
- T198528; Hard transport case FLIR Ex-series
- T198531; Battery charger incl power supply
- T198532; Car charger
- T198534; Power supply USB-micro
- T198529; Pouch FLIR Ex and ix series
- T198533; USB cable Std A <-> Micro B
- T199362ACC; Battery Li-ion 3.6 V, 2.6 Ah, 9.4 Wh
- T198583; FLIR Tools+ (download card incl. license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

P/N: 63908-0805

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Website

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General description

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The FLIR Ex series cameras are user-friendly, compact, and rugged, for use in harsh environments. The wide field of view makes them the perfect choice for building applications.

Benefits:

- Easy to use: The FLIR Ex series cameras are fully automatic and focus-free with an intuitive interface for simple measurements in thermal, visual, or MSX mode.
- Compact and rugged: The FLIR Ex series cameras' low weight of 0.575 kg and the accessory belt pouch make them easy to bring along at all times. Their rugged design can withstand a 2 m drop test, and ensures reliability, even in harsh environments.
- Ground breaking affordability: The FLIR Ex series cameras are the most affordable infrared cameras on the market.

Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<0.06°C (0.11°F) / <60 mK
Field of view (FOV)	45° × 34°
Minimum focus distance	0.5 m (1.6 ft.)
Spatial resolution (IFOV)	2.6 mrad
F-number	1.5
Image frequency	9 Hz
Focus	Focus free

Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm

Image presentation

Display	3.0 in. 320 × 240 color LCD
Image adjustment	Automatic/Manual

Image presentation modes

Image modes	Thermal MSX, Thermal, Picture-in-Picture, Thermal blending, Digital camera.
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FLIR E8 (incl. Wi-Fi)

P/N: 63908-0805

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Image presentation modes	
Multi Spectral Dynamic Imaging (MSX)	IR image with enhanced detail presentation
Picture-in-Picture	IR area on visual image

Measurement	
Object temperature range	-20°C to +250°C (-4°F to +482°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading, for ambient temperature 10°C to 35°C (+50°F to 95°F) and object temperature above +0°C (+32°F)

Measurement analysis	
Spotmeter	Center spot
Area	Box with max./min.
Isotherm	Above/below/interval
Emissivity correction	Variable from 0.1 to 1.0
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature

Set-up	
Color palettes	Black and white, iron and rainbow
Set-up commands	Local adaptation of units, language, date and time formats

Storage of images	
File formats	Standard JPEG, 14-bit measurement data included

Digital camera	
Digital camera, resolution	640 × 480
Digital camera, FOV	55° × 43°

Data communication interfaces	
Interfaces	USB Micro: Data transfer to and from PC and Mac device
Wi-Fi	Peer-to-peer (ad hoc) or infrastructure (network)

Radio	
Wi-Fi	<ul style="list-style-type: none">Standard: 802.11 b/g/nFrequency range:<ul style="list-style-type: none">2400–2480 MHz5150–5260 MHzMax. output power: 15 dBm

Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	3.6 V
Battery operating time	Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use
Charging system	Battery is charged inside the camera or in specific charger.
Charging time	2.5 hours to 90% capacity in camera. 2 hours in charger.



FLIR E8 (incl. Wi-Fi)

P/N: 63908-0805

Revision

43546

Last modified

2017-06-28 14:27 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Power system	
Power management	Automatic shut-down
AC operation	AC adapter, 90–260 VAC input, 5 VDC output to camera

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity
EMC	<ul style="list-style-type: none">• WEEE 2012/19/EC• RoHS 2011/65/EC• C-Tick• EN 61000-6-3• EN 61000-6-2• FCC 47 CFR Part 15 Class B
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC 47 CSR Part 15• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Drop	2 m (6.6 ft.)

Physical data	
Camera weight, incl. battery	0.575 kg (1.27 lb.)
Camera size (L × W × H)	244 × 95 × 140 mm (9.6 × 3.7 × 5.5 in.)
Color	Black and gray

Certifications	
Certification	UL, CSA, CE, PSE and CCC

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera• Hard transport case• Battery (2x)• USB cable• Power supply/charger with EU, UK, US and Australian plugs• Battery charger• Printed documentation
Packaging, weight	3.13 kg (6.9 lb.)
Packaging, size	385 × 165 × 315 mm (15.2 × 6.5 × 12.4 in.)
EAN-13	4743254002890
UPC-12	845188014148
Country of origin	Estonia

Supplies & accessories:

- T911093; Tool belt
- T911689ACC; Pouch
- T198528; Hard transport case FLIR Ex-series
- T198531; Battery charger incl power supply
- T198532; Car charger
- T198534; Power supply USB-micro
- T198529; Pouch FLIR Ex and ix series
- T198533; USB cable Std A <-> Micro B
- T199362ACC; Battery Li-ion 3.6 V, 2.6 Ah, 9.4 Wh



FLIR E8 (incl. Wi-Fi)

P/N: 63908-0805

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- T198583; FLIR Tools+ (download card incl. license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

P/N: 63907-0711

Revision

43649

Last modified

2017-07-05 14:52 UTC+1

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Website

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Customer support

<http://support.flir.com>



General description
The kit consists of a FLIR E6 (incl. Wi-Fi) plus an educational kit card with download links for FLIR Tools+, FLIR ResearchIR Standard (incl. printed license key), and educational resources. See main product for full specifications.

Shipping information	
List of contents	<ul style="list-style-type: none"> Infrared camera Hard transport case Battery (inside camera) USB cable Power supply/charger with EU, UK, US and Australian plugs Printed documentation Educational kit card with download links for FLIR Tools+, FLIR ResearchIR Standard (incl. printed license key), and educational resources.
EAN-13	4743254003446
UPC-12	845188014940
Country of origin	Estonia

Supplies & accessories:

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FLIR Exx series

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P/N: 64502-0801

Revision

35207

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
The FLIR Exx series cameras are compact and rugged infrared cameras that can be used in harsh environments while still providing you with the latest technology such as a modern touch screen. A FLIR Exx series camera is the perfect choice when you are looking for a robust but feature-rich camera at an affordable price.	
Benefits:	
<ul style="list-style-type: none"> • Robust and sophisticated: The FLIR Exx series cameras have a robust and light-weight design and can withstand a 2 m drop. Large buttons combined with a modern touch screen and extensive measuring capabilities, they are the right choice for demanding inspections in the field. • Best value for money: The FLIR Exx series cameras combine good performance (up to 320 × 240 pixels), a user-friendly interface, and a rugged point-and-shoot design with an affordable price. 	
Imaging and optical data	
IR resolution	160 × 120 pixels
Thermal sensitivity/NETD	< 0.07°C @ +30°C (+86°F) / 70 mK
Field of view (FOV)	25° × 19°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	2.72 mrad
F-number	1.3
Image frequency	60 Hz
Focus	Manual
Digital zoom	2x and 4x
Panning	Panning over zoomed-in images
Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
Image presentation	
Display	Touch screen, 3.5 in. LCD, 320 × 240 pixels
Image adjustment	Auto or manual

P/N: 64502-0801

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Image presentation modes	
Image modes	IR image, visual image, MSX, picture in picture, thumbnail gallery
Picture in Picture	IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none"> -20°C to +120°C (-4°F to +248°F) 0°C to +650°C (+32°F to +1202°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading, for ambient temperature 10°C to 35°C (+50°F to 95°F)

Measurement analysis	
Spotmeter	3
Area	Box with max./min./average
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
External optics/windows correction	Automatic, based on inputs of optics/window transmission and temperature
Measurement corrections	Reflected temperature, optics transmission and atmospheric transmission

Set-up	
Color palettes	Arctic, Gray, Iron, Lava, Rainbow and Rainbow HC
Set-up commands	Local adaptation of units, language, date and time formats

Storage of images	
Image storage	Standard JPEG, including measurement data, on memory card
Image storage mode	Simultaneous storage of images in IR, visual and MSX

Image annotations	
Text	Text from predefined list or soft keyboard on touch screen
Report generation	<ul style="list-style-type: none"> FLIR Tools software specifically designed to provide an easy way to create inspection reports. It is available on the major platforms – Android, Windows, MacOS, and iOS.

Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card

Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB
Non-radiometric IR video streaming	Uncompressed colorized video using USB

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Digital camera	
Built-in digital camera	3.1 Mpixels (2048 × 1536 pixels), and one LED light
Digital camera, focus	Fixed focus
Built-in digital lens data	FOV 53° × 41°
Digital camera, aspect ratio	4:3

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser
Laser power	1 mW
Laser wavelength	635 nm (red)

Data communication interfaces	
SD Card	One card slot for removable SD memory cards

USB	
USB	<ul style="list-style-type: none"> • USB-A: Connect external USB device • USB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB Mini-B: 2.0
USB, connector type	<ul style="list-style-type: none"> • USB-A connector • USB Mini-B connector

Composite video	
Video out	Composite
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC)
Video, connector type	4-pole 3.5 mm jack

Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	3.7 V
Battery capacity	4.4 Ah, at +20°C to +25°C (+68°F to +77°F)
Battery operating time	Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	4 h to 90% capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
Power management	Automatic shutdown and sleep mode (user selectable)
AC operation	AC adapter, 90–260 VAC input, 12 V output to camera
Start-up time from sleep mode	Instant on

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Environmental data	
Operating temperature range	-15°C to +50°C (+5°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none"> EN 61000-6-2 (Immunity) EN 61000-6-3 (Emission) FCC 47 CFR Part 15 B (Emission)
Magnetic fields	EN 61 000-4-8, Test level 5 for continuous field (severe industrial environment)
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Drop	2 m (6.6 ft.)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Camera weight, incl. battery	0.869 kg (1.91 lb.)
Camera size (L × W × H)	246 × 97 × 184 mm (9.7 × 3.8 × 7.2 in.)
Tripod mounting	UNC ¼"-20 (adapter needed)
Material	<ul style="list-style-type: none"> Polycarbonate + acrylonitrile butadiene styrene (PC-ABS) Thixomold magnesium Thermoplastic elastomer (TPE)
Color	Graphite gray and black

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> Hard transport case Infrared camera with lens Battery Handstrap Memory card Power supply, incl. multi-plugs Printed documentation USB cable Video cable
Packaging, weight	5.2 kg (11.5 lb.)
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)
EAN-13	4743254001206
UPC-12	845188005238
Country of origin	Estonia

Supplies & accessories:

- 1196961; IR lens, f = 30 mm, 15° incl. case
- 1196960; IR lens, f = 10 mm, 45° incl. case
- T910814; Power supply, incl. multi plugs
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- 1910582ACC; Video cable
- T911093; Tool belt
- T198125; Battery charger, incl. power supply with multi plugs (Exx, Kxx)
- T199235; High-temperature lens
- T198113; IR lens, 76 mm (6°) with case and mounting support for Exx
- T198487; Li-Ion Battery pack 3.7V 17Wh
- T198484; Pouch for FLIR Exx series
- T198485; Sun shield
- T198341ACC; Transport case Exx



FLIR E33

P/N: 64502-0801

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- T198486; Tripod Adapter
- T199363ACC; Battery Li-ion 3.6 V, 5.2 Ah, 19 Wh
- T911689ACC; Pouch
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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Website

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Customer support

<http://support.flir.com>



General description

The FLIR Exx series cameras are compact and rugged infrared cameras that can be used in harsh environments while still providing you with the latest technology such as a modern touch screen. A FLIR Exx series camera is the perfect choice when you are looking for a robust but feature-rich camera at an affordable price.

Benefits:

- Robust and sophisticated: The FLIR Exx series cameras have a robust and light-weight design and can withstand a 2 m drop. Large buttons combined with a modern touch screen and extensive measuring capabilities, they are the right choice for demanding inspections in the field.
- Best value for money: The FLIR Exx series cameras combine good performance (up to 320 × 240 pixels), a user-friendly interface, and a rugged point-and-shoot design with an affordable price.

Imaging and optical data

IR resolution	160 × 120 pixels
Thermal sensitivity/NETD	< 0.07°C @ +30°C (+86°F) / 70 mK
Field of view (FOV)	25° × 19°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	2.72 mrad
F-number	1.3
Image frequency	60 Hz
Focus	Manual
Digital zoom	2x
Panning	Panning over zoomed-in images

Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm

Image presentation

Display	Touch screen, 3.5 in. LCD, 320 × 240 pixels
Image adjustment	Auto or manual

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Website

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Customer support

<http://support.flir.com>

Image presentation modes	
Image modes	IR image, visual image, MSX, picture in picture, thumbnail gallery
Picture in Picture	IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none"> -20°C to +120°C (-4°F to +248°F) 0°C to +650°C (+32°F to +1202°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading, for ambient temperature 10°C to 35°C (+50°F to 95°F)

Measurement analysis	
Spotmeter	3
Area	3 boxes with max./min./average
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
External optics/windows correction	Automatic, based on inputs of optics/window transmission and temperature
Measurement corrections	Reflected temperature, optics transmission and atmospheric transmission

Set-up	
Color palettes	Arctic, Gray, Iron, Lava, Rainbow and Rainbow HC
Set-up commands	Local adaptation of units, language, date and time formats

Storage of images	
Image storage	Standard JPEG, including measurement data, on memory card
Image storage mode	Simultaneous storage of images in IR, visual and MSX

Image annotations	
Text	Text from predefined list or soft keyboard on touch screen
Report generation	<ul style="list-style-type: none"> FLIR Tools software specifically designed to provide an easy way to create inspection reports. It is available on the major platforms – Android, Windows, MacOS, and iOS.

Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card

Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB
Non-radiometric IR video streaming	Uncompressed colorized video using USB



FLIR E40

P/N: 64502-1001

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Digital camera	
Built-in digital camera	3.1 Mpixels (2048 × 1536 pixels), and one LED light
Digital camera, focus	Fixed focus
Built-in digital lens data	FOV 53° × 41°
Digital camera, aspect ratio	4:3

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser
Laser power	1 mW
Laser wavelength	635 nm (red)

Data communication interfaces	
SD Card	One card slot for removable SD memory cards

USB	
USB	<ul style="list-style-type: none">• USB-A: Connect external USB device• USB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB Mini-B: 2.0
USB, connector type	<ul style="list-style-type: none">• USB-A connector• USB Mini-B connector

Composite video	
Video out	Composite
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC)
Video, connector type	4-pole 3.5 mm jack

Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	3.7 V
Battery capacity	4.4 Ah, at +20°C to +25°C (+68°F to +77°F)
Battery operating time	Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	4 h to 90% capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
Power management	Automatic shutdown and sleep mode (user selectable)
AC operation	AC adapter, 90–260 VAC input, 12 V output to camera
Start-up time from sleep mode	Instant on

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Environmental data	
Operating temperature range	-15°C to +50°C (+5°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none"> EN 61000-6-2 (Immunity) EN 61000-6-3 (Emission) FCC 47 CFR Part 15 B (Emission)
Magnetic fields	EN 61 000-4-8, Test level 5 for continuous field (severe industrial environment)
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Drop	2 m (6.6 ft.)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Camera weight, incl. battery	0.869 kg (1.91 lb.)
Camera size (L x W x H)	246 x 97 x 184 mm (9.7 x 3.8 x 7.2 in.)
Tripod mounting	UNC ¼"-20 (adapter needed)
Material	<ul style="list-style-type: none"> Polycarbonate + acrylonitrile butadiene styrene (PC-ABS) Thixomold magnesium Thermoplastic elastomer (TPE)
Color	Graphite gray and black

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> Hard transport case Infrared camera with lens Battery Handstrap Memory card Power supply, incl. multi-plugs Printed documentation USB cable Video cable
Packaging, weight	5.2 kg (11.5 lb.)
Packaging, size	500 x 190 x 370 mm (19.7 x 7.5 x 14.6 in.)
EAN-13	4743254001220
UPC-12	845188005252
Country of origin	Estonia

Supplies & accessories:

- 1196961; IR lens, f = 30 mm, 15° incl. case
- 1196960; IR lens, f = 10 mm, 45° incl. case
- T910814; Power supply, incl. multi plugs
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- 1910582ACC; Video cable
- T911093; Tool belt
- T198125; Battery charger, incl. power supply with multi plugs (Exx, Kxx)
- T199235; High-temperature lens
- T198113; IR lens, 76 mm (6°) with case and mounting support for Exx
- T198487; Li-Ion Battery pack 3.7V 17Wh
- T198484; Pouch for FLIR Exx series
- T198485; Sun shield
- T198341ACC; Transport case Exx



FLIR E40

P/N: 64502-1001

Revision

35207

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2016-04-27 09:29 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- T198486; Tripod Adapter
- T199363ACC; Battery Li-ion 3.6 V, 5.2 Ah, 19 Wh
- T911689ACC; Pouch
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

P/N: 64501-0101

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General description

The FLIR Exx series cameras are compact and rugged infrared cameras that can be used in harsh environments while still providing you with the latest technology such as a modern touch screen and wireless connectivity. A FLIR Exx series camera is the perfect choice when you are looking for a robust but feature-rich camera at an affordable price.

Benefits:

- **Robust and sophisticated:** The FLIR Exx series cameras have a robust and light-weight design and can withstand a 2 m drop. Large buttons combined with a modern touch screen and extensive measuring capabilities, they are the right choice for demanding inspections in the field.
- **Easy communication:** The Wi-Fi connectivity of the FLIR Exx series cameras allows you to connect to smart phones and tablets, for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLINK function transfers readings from external measurement instruments to the infrared image.
- **Best value for money:** The FLIR Exx series cameras combine good performance (up to 320 × 240 pixels), a user-friendly interface, and a rugged point-and-shoot design with an affordable price.

Imaging and optical data

IR resolution	160 × 120 pixels
Thermal sensitivity/NETD	<0.07°C @ +30°C (+86°F) / 70 mK
Field of view (FOV)	25° × 19°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	2.72 mrad
F-number	1.3
Image frequency	60 Hz
Focus	Manual
Digital zoom	2x
Panning	Panning over zoomed-in images

Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm

Image presentation

Display	Touch screen, 3.5 in. LCD, 320 × 240 pixels
Image adjustment	Auto or manual



FLIR E40 (incl. Wi-Fi)

P/N: 64501-0101

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Website

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Customer support

<http://support.flir.com>

Image presentation modes	
Image modes	IR image, visual image, MSX, picture in picture, thumbnail gallery
Picture in Picture	IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none">-20°C to +120°C (-4°F to +248°F)0°C to +650°C (+32°F to +1202°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading, for ambient temperature 10°C to 35°C (+50°F to 95°F)

Measurement analysis	
Spotmeter	3
Area	3 boxes with max./min./average
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
External optics/windows correction	Automatic, based on inputs of optics/window transmission and temperature
Measurement corrections	Reflected temperature, optics transmission and atmospheric transmission

Set-up	
Color palettes	Arctic, Gray, Iron, Lava, Rainbow and Rainbow HC
Set-up commands	Local adaptation of units, language, date and time formats

Storage of images	
Image storage	Standard JPEG, including measurement data, on memory card
Image storage mode	Simultaneous storage of images in IR, visual and MSX

Image annotations	
Voice	60 seconds (via Bluetooth)
Text	Text from predefined list or soft keyboard on touch screen
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none">FLIR Tools software specifically designed to provide an easy way to create inspection reports. It is available on the major platforms – Android, Windows, MacOS, and iOS.

Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card

Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB



FLIR E40 (incl. Wi-Fi)

P/N: 64501-0101

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Website

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Customer support

<http://support.flir.com>

Video streaming	
Non-radiometric IR video streaming	Uncompressed colorized video using USB

Digital camera	
Built-in digital camera	3.1 Mpixels (2048 × 1536 pixels), and one LED light
Digital camera, focus	Fixed focus
Built-in digital lens data	FOV 53° × 41°
Digital camera, aspect ratio	4:3

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser
Laser power	1 mW
Laser wavelength	635 nm (red)

Data communication interfaces	
Wi-Fi	Peer-to-peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards
Audio	Microphone headset via Bluetooth for voice annotation of images

USB	
USB	<ul style="list-style-type: none">• USB-A: Connect external USB device• USB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB Mini-B: 2.0
USB, connector type	<ul style="list-style-type: none">• USB-A connector• USB Mini-B connector

Composite video	
Video out	Composite
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC)
Video, connector type	4-pole 3.5 mm jack

Radio	
Wi-Fi	Standard: 802.11 b/g Frequency range: 2412–2462 MHz Max. output power: 15 dBm
Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	3.7 V
Battery capacity	4.4 Ah, at +20°C to +25°C (+68°F to +77°F)



FLIR E40 (incl. Wi-Fi)

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Power system	
Battery operating time	Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	4 h to 90% capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
Power management	Automatic shutdown and sleep mode (user selectable)
AC operation	AC adapter, 90–260 VAC input, 12 V output to camera
Start-up time from sleep mode	Instant on

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Magnetic fields	EN 61 000-4-8, Test level 5 for continuous field (severe industrial environment)
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Drop	2 m (6.6 ft.)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Camera weight, incl. battery	0.869 kg (1.91 lb.)
Camera size (L × W × H)	246 × 97 × 184 mm (9.7 × 3.8 × 7.2 in.)
Tripod mounting	UNC ¼"-20 (adapter needed)
Material	<ul style="list-style-type: none">• Polycarbonate + acrylonitrile butadiene styrene (PC-ABS)• Thixomold magnesium• Thermoplastic elastomer (TPE)
Color	Graphite gray and black

Shipping information	
Packaging, type	Cardboard box



FLIR E40 (incl. Wi-Fi)

P/N: 64501-0101

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Shipping information

List of contents	<ul style="list-style-type: none">• Hard transport case• Infrared camera with lens• Battery• Handstrap• Memory card• Power supply, incl. multi-plugs• Printed documentation• USB cable• Video cable
Packaging, weight	5.2 kg (11.5 lb.)
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)
EAN-13	4743254001138
UPC-12	845188005160
Country of origin	Estonia

Supplies & accessories:

- 1196961; IR lens, f = 30 mm, 15° incl. case
- 1196960; IR lens, f = 10 mm, 45° incl. case
- T910814; Power supply, incl. multi plugs
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- 1910582ACC; Video cable
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- T198125; Battery charger, incl. power supply with multi plugs (Exx, Kxx)
- T199235; High-temperature lens
- T198113; IR lens, 76 mm (6°) with case and mounting support for Exx
- T198487; Li-Ion Battery pack 3.7V 17Wh
- T198484; Pouch for FLIR Exx series
- T198485; Sun shield
- T198341ACC; Transport case Exx
- T198486; Tripod Adapter
- T199363ACC; Battery Li-ion 3.6 V, 5.2 Ah, 19 Wh
- T911689ACC; Pouch
- 19250-100; IR Window 2 in.
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

P/N: 64501-0103

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General description

The FLIR Exx series cameras are compact and rugged infrared cameras that can be used in harsh environments while still providing you with the latest technology such as a modern touch screen and wireless connectivity. A FLIR Exx series camera is the perfect choice when you are looking for a robust but feature-rich camera at an affordable price.

Benefits:

- Robust and sophisticated: The FLIR Exx series cameras have a robust and light-weight design and can withstand a 2 m drop. Large buttons combined with a modern touch screen and extensive measuring capabilities, they are the right choice for demanding inspections in the field.
- Easy communication: The Wi-Fi connectivity of the FLIR Exx series cameras allows you to connect to smart phones and tablets, for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLINK function transfers readings from external measurement instruments to the infrared image.
- Best value for money: The FLIR Exx series cameras combine good performance (up to 320 × 240 pixels), a user-friendly interface, and a rugged point-and-shoot design with an affordable price.

Imaging and optical data

IR resolution	160 × 120 pixels
Thermal sensitivity/NETD	< 0.07°C @ +30°C (+86°F) / 70 mK
Field of view (FOV)	25° × 19°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	2.72 mrad
F-number	1.3
Image frequency	60 Hz
Focus	Manual
Digital zoom	2x
Panning	Panning over zoomed-in images

Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm

Image presentation

Display	Touch screen, 3.5 in. LCD, 320 × 240 pixels
Image adjustment	Auto or manual



FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)

P/N: 64501-0103

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Website

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Customer support

<http://support.flir.com>

Image presentation modes	
Image modes	IR image, visual image, MSX, picture in picture, thumbnail gallery
Picture in Picture	IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none">-20°C to +120°C (-4°F to +248°F)0°C to +650°C (+32°F to +1202°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading, for ambient temperature 10°C to 35°C (+50°F to 95°F)

Measurement analysis	
Spotmeter	3
Area	3 boxes with max./min./average
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
External optics/windows correction	Automatic, based on inputs of optics/window transmission and temperature
Measurement corrections	Reflected temperature, optics transmission and atmospheric transmission

Set-up	
Color palettes	Arctic, Gray, Iron, Lava, Rainbow and Rainbow HC
Set-up commands	Local adaptation of units, language, date and time formats

Storage of images	
Image storage	Standard JPEG, including measurement data, on memory card
Image storage mode	Simultaneous storage of images in IR, visual and MSX

Image annotations	
Text	Text from predefined list or soft keyboard on touch screen
Report generation	<ul style="list-style-type: none">FLIR Tools software specifically designed to provide an easy way to create inspection reports. It is available on the major platforms – Android, Windows, MacOS, and iOS.

Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card

Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB
Non-radiometric IR video streaming	Uncompressed colorized video using USB



FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)

P/N: 64501-0103

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Website

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Customer support

<http://support.flir.com>

Digital camera	
Built-in digital camera	3.1 Mpixels (2048 × 1536 pixels), and one LED light
Digital camera, focus	Fixed focus
Built-in digital lens data	FOV 53° × 41°
Digital camera, aspect ratio	4:3

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser
Laser power	1 mW
Laser wavelength	635 nm (red)

Data communication interfaces	
Wi-Fi	Peer-to-peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards

USB	
USB	<ul style="list-style-type: none">• USB-A: Connect external USB device• USB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB Mini-B: 2.0
USB, connector type	<ul style="list-style-type: none">• USB-A connector• USB Mini-B connector

Composite video	
Video out	Composite
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC)
Video, connector type	4-pole 3.5 mm jack

Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	3.7 V
Battery capacity	4.4 Ah, at +20°C to +25°C (+68°F to +77°F)
Battery operating time	Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	4 h to 90% capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
Power management	Automatic shutdown and sleep mode (user selectable)
AC operation	AC adapter, 90–260 VAC input, 12 V output to camera
Start-up time from sleep mode	Instant on



FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)

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Website

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Customer support

<http://support.flir.com>

Environmental data	
Operating temperature range	-15°C to +50°C (+5°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none">EN 61000-6-2 (Immunity)EN 61000-6-3 (Emission)FCC 47 CFR Part 15 B (Emission)
Magnetic fields	EN 61 000-4-8, Test level 5 for continuous field (severe industrial environment)
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Drop	2 m (6.6 ft.)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Camera weight, incl. battery	0.869 kg (1.91 lb.)
Camera size (L x W x H)	246 x 97 x 184 mm (9.7 x 3.8 x 7.2 in.)
Tripod mounting	UNC ¼"-20 (adapter needed)
Material	<ul style="list-style-type: none">Polycarbonate + acrylonitrile butadiene styrene (PC-ABS)Thixomold magnesiumThermoplastic elastomer (TPE)
Color	Graphite gray and black

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">Hard transport caseInfrared camera with lensBatteryFLIR ResearchIR Standard 4HandstrapIR lens, f = 10 mm, 45° incl. caseMemory cardPower supply, incl. multi-plugsPrinted documentationUSB cableVideo cable
Packaging, weight	5.7 kg (12.6 lb.)
Packaging, size	630 x 190 x 370 mm (24.8 x 7.5 x 14.6 in.)
EAN-13	4743254001558
UPC-12	845188008932
Country of origin	Estonia

Supplies & accessories:

- 1196961; IR lens, f = 30 mm, 15° incl. case
- 1196960; IR lens, f = 10 mm, 45° incl. case
- T910814; Power supply, incl. multi plugs
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- 1910582ACC; Video cable
- T911093; Tool belt
- T198125; Battery charger, incl. power supply with multi plugs (Exx, Kxx)
- T199235; High-temperature lens
- T198113; IR lens, 76 mm (6°) with case and mounting support for Exx
- T198487; Li-Ion Battery pack 3.7V 17Wh
- T198484; Pouch for FLIR Exx series



FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)

P/N: 64501-0103

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Website

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Customer support

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- T198485; Sun shield
- T198341ACC; Transport case Exx
- T198486; Tripod Adapter
- T199363ACC; Battery Li-ion 3.6 V, 5.2 Ah, 19 Wh
- T911689ACC; Pouch
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

P/N: 64501-0114

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
The FLIR Exx series cameras are compact and rugged infrared cameras that can be used in harsh environments while still providing you with the latest technology such as a modern touch screen and wireless connectivity. A FLIR Exx series camera is the perfect choice when you are looking for a robust but feature-rich camera at an affordable price.	
Benefits:	
<ul style="list-style-type: none"> • Robust and sophisticated: The FLIR Exx series cameras have a robust and light-weight design and can withstand a 2 m drop. Large buttons combined with a modern touch screen and extensive measuring capabilities, they are the right choice for demanding inspections in the field. • Easy communication: The Wi-Fi connectivity of the FLIR Exx series cameras allows you to connect to smart phones and tablets, for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLINK function transfers readings from external measurement instruments to the infrared image. • Best value for money: The FLIR Exx series cameras combine good performance (up to 320 × 240 pixels), a user-friendly interface, and a rugged point-and-shoot design with an affordable price. 	
Imaging and optical data	
IR resolution	160 × 120 pixels
Thermal sensitivity/NETD	< 0.07°C @ +30°C (+86°F) / 70 mK
Field of view (FOV)	25° × 19°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	2.72 mrad
F-number	1.3
Image frequency	60 Hz
Focus	Manual
Digital zoom	2x
Panning	Panning over zoomed-in images
Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
Image presentation	
Display	Touch screen, 3.5 in. LCD, 320 × 240 pixels
Image adjustment	Auto or manual



FLIR E40 with SC kit (incl. Wi-Fi)

P/N: 64501-0114

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Image presentation modes	
Image modes	IR image, visual image, MSX, picture in picture, thumbnail gallery
Picture in Picture	IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none">-20°C to +120°C (-4°F to +248°F)0°C to +650°C (+32°F to +1202°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading, for ambient temperature 10°C to 35°C (+50°F to 95°F)

Measurement analysis	
Spotmeter	3
Area	3 boxes with max./min./average
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
External optics/windows correction	Automatic, based on inputs of optics/window transmission and temperature
Measurement corrections	Reflected temperature, optics transmission and atmospheric transmission

Set-up	
Color palettes	Arctic, Gray, Iron, Lava, Rainbow and Rainbow HC
Set-up commands	Local adaptation of units, language, date and time formats

Storage of images	
Image storage	Standard JPEG, including measurement data, on memory card
Image storage mode	Simultaneous storage of images in IR, visual and MSX

Image annotations	
Text	Text from predefined list or soft keyboard on touch screen
Report generation	<ul style="list-style-type: none">FLIR Tools software specifically designed to provide an easy way to create inspection reports. It is available on the major platforms – Android, Windows, MacOS, and iOS.

Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card

Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB
Non-radiometric IR video streaming	Uncompressed colorized video using USB



FLIR E40 with SC kit (incl. Wi-Fi)

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Digital camera	
Built-in digital camera	3.1 Mpixels (2048 × 1536 pixels), and one LED light
Digital camera, focus	Fixed focus
Built-in digital lens data	FOV 53° × 41°
Digital camera, aspect ratio	4:3

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser
Laser power	1 mW
Laser wavelength	635 nm (red)

Data communication interfaces	
Wi-Fi	Peer-to-peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards

USB	
USB	<ul style="list-style-type: none">• USB-A: Connect external USB device• USB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB Mini-B: 2.0
USB, connector type	<ul style="list-style-type: none">• USB-A connector• USB Mini-B connector

Composite video	
Video out	Composite
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC)
Video, connector type	4-pole 3.5 mm jack

Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	3.7 V
Battery capacity	4.4 Ah, at +20°C to +25°C (+68°F to +77°F)
Battery operating time	Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	4 h to 90% capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
Power management	Automatic shutdown and sleep mode (user selectable)
AC operation	AC adapter, 90–260 VAC input, 12 V output to camera
Start-up time from sleep mode	Instant on



FLIR E40 with SC kit (incl. Wi-Fi)

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Environmental data	
Operating temperature range	-15°C to +50°C (+5°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none">EN 61000-6-2 (Immunity)EN 61000-6-3 (Emission)FCC 47 CFR Part 15 B (Emission)
Magnetic fields	EN 61 000-4-8, Test level 5 for continuous field (severe industrial environment)
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Drop	2 m (6.6 ft.)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Camera weight, incl. battery	0.869 kg (1.91 lb.)
Camera size (L x W x H)	246 x 97 x 184 mm (9.7 x 3.8 x 7.2 in.)
Tripod mounting	UNC ¼"-20 (adapter needed)
Material	<ul style="list-style-type: none">Polycarbonate + acrylonitrile butadiene styrene (PC-ABS)Thixomold magnesiumThermoplastic elastomer (TPE)
Color	Graphite gray and black

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">Hard transport caseInfrared camera with lensBatteryFLIR ResearchIR Standard 4HandstrapMemory cardPower supply, incl. multi-plugsPrinted documentationUSB cableVideo cable
Packaging, weight	5.7 kg (12.6 lb.)
Packaging, size	630 x 190 x 370 mm (24.8 x 7.5 x 14.6 in.)
EAN-13	4743254002043
UPC-12	845188011208
Country of origin	Estonia

Supplies & accessories:

- 1196961; IR lens, f = 30 mm, 15° incl. case
- 1196960; IR lens, f = 10 mm, 45° incl. case
- T910814; Power supply, incl. multi plugs
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- 1910582ACC; Video cable
- T911093; Tool belt
- T198125; Battery charger, incl. power supply with multi plugs (Exx, Kxx)
- T199235; High-temperature lens
- T198113; IR lens, 76 mm (6°) with case and mounting support for Exx
- T198487; Li-Ion Battery pack 3.7V 17Wh
- T198484; Pouch for FLIR Exx series
- T198485; Sun shield



FLIR E40 with SC kit (incl. Wi-Fi)

P/N: 64501-0114

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- T198341ACC; Transport case Exx
- T198486; Tripod Adapter
- T199363ACC; Battery Li-ion 3.6 V, 5.2 Ah, 19 Wh
- T911689ACC; Pouch
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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General description	
The FLIR Exx series cameras are compact and rugged infrared cameras that can be used in harsh environments while still providing you with the latest technology such as a modern touch screen and wireless connectivity. A FLIR Exx series camera is the perfect choice when you are looking for a robust but feature-rich camera at an affordable price.	
Benefits:	
<ul style="list-style-type: none"> • Robust and sophisticated: The FLIR Exx series cameras have a robust and light-weight design and can withstand a 2 m drop. Large buttons combined with a modern touch screen and extensive measuring capabilities, they are the right choice for demanding inspections in the field. • Easy communication: The Wi-Fi connectivity of the FLIR Exx series cameras allows you to connect to smart phones and tablets, for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLINK function transfers readings from external measurement instruments to the infrared image. • Best value for money: The FLIR Exx series cameras combine good performance (up to 320 × 240 pixels), a user-friendly interface, and a rugged point-and-shoot design with an affordable price. 	
Imaging and optical data	
IR resolution	160 × 120 pixels
Thermal sensitivity/NETD	< 0.045°C @ +30°C (+86°F) / 45 mK
Field of view (FOV)	25° × 19°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	2.72 mrad
F-number	1.3
Image frequency	60 Hz
Focus	Manual
Digital zoom	2x
Panning	Panning over zoomed-in images
Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
Image presentation	
Display	Touch screen, 3.5 in. LCD, 320 × 240 pixels
Image adjustment	Auto or manual

P/N: 64501-0501

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Image presentation modes	
Image modes	IR image, visual image, MSX, picture in picture, thumbnail gallery
Picture in Picture	IR area on visual image

Measurement	
Object temperature range	-20°C to +120°C (-4°F to +248°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading, for ambient temperature 10°C to 35°C (+50°F to 95°F)

Measurement analysis	
Spotmeter	3
Area	3 boxes with max./min./average
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Difference temperature	Delta temperature between measurement functions or reference temperature
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Measurement corrections	Reflected temperature, optics transmission and atmospheric transmission

Alarm	
Screening	Yes
Humidity alarm	1 humidity alarm, including dew point alarm
Insulation alarm	1 insulation alarm

Set-up	
Color palettes	Arctic, Gray, Iron, Lava, Rainbow and Rainbow HC
Set-up commands	Local adaptation of units, language, date and time formats

Storage of images	
Image storage	Standard JPEG, including measurement data, on memory card
Image storage mode	Simultaneous storage of images in IR, visual and MSX

Image annotations	
Voice	60 seconds (via Bluetooth)
Text	Text from predefined list or soft keyboard on touch screen
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> FLIR Tools software specifically designed to provide an easy way to create inspection reports. It is available on the major platforms – Android, Windows, MacOS, and iOS.

Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card



FLIR E40bx (incl. Wi-Fi)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB
Non-radiometric IR video streaming	Uncompressed colorized video using USB

Digital camera	
Built-in digital camera	3.1 Mpixels (2048 × 1536 pixels), and one LED light
Digital camera, focus	Fixed focus
Built-in digital lens data	FOV 53° × 41°
Digital camera, aspect ratio	4:3

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser
Laser power	1 mW
Laser wavelength	635 nm (red)

Data communication interfaces	
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards
Audio	Microphone headset via Bluetooth for voice annotation of images

USB	
USB	<ul style="list-style-type: none">• USB-A: Connect external USB device• USB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB Mini-B: 2.0
USB, connector type	<ul style="list-style-type: none">• USB-A connector• USB Mini-B connector

Composite video	
Video out	Composite
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC)
Video, connector type	4-pole 3.5 mm jack

Radio	
Wi-Fi	<ul style="list-style-type: none">• Standard: 802.11 b/g• Frequency range: 2412–2462 MHz• Max. output power: 15 dBm
Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	3.7 V
Battery capacity	4.4 Ah, at +20°C to +25°C (+68°F to +77°F)



FLIR E40bx (incl. Wi-Fi)

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Power system	
Battery operating time	Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	4 h to 90% capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
Power management	Automatic shutdown and sleep mode (user selectable)
AC operation	AC adapter, 90–260 VAC input, 12 V output to camera
Start-up time from sleep mode	Instant on

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Magnetic fields	EN 61 000-4-8, Test level 5 for continuous field (severe industrial environment)
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Drop	2 m (6.6 ft.)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Camera weight, incl. battery	0.869 kg (1.91 lb.)
Camera size (L × W × H)	246 × 97 × 184 mm (9.7 × 3.8 × 7.2 in.)
Tripod mounting	UNC ¼"-20 (adapter needed)
Material	<ul style="list-style-type: none">• Polycarbonate + acrylonitrile butadiene styrene (PC-ABS)• Thixomold magnesium• Thermoplastic elastomer (TPE)
Color	Graphite gray and black

Shipping information	
Packaging, type	Cardboard box



FLIR E40bx (incl. Wi-Fi)

P/N: 64501-0501

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>**Shipping information**

List of contents	<ul style="list-style-type: none"> • Hard transport case • Infrared camera with lens • Battery • Handstrap • Memory card • Power supply, incl. multi-plugs • Printed documentation • USB cable • Video cable
Packaging, weight	5.2 kg (11.5 lb.)
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)
EAN-13	4743254001176
UPC-12	845188005207
Country of origin	Estonia

Supplies & accessories:

- 1196961; IR lens, f = 30 mm, 15° incl. case
- 1196960; IR lens, f = 10 mm, 45° incl. case
- T910814; Power supply, incl. multi plugs
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- 1910582ACC; Video cable
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- T198125; Battery charger, incl. power supply with multi plugs (Exx, Kxx)
- T199235; High-temperature lens
- T198113; IR lens, 76 mm (6°) with case and mounting support for Exx
- T198487; Li-Ion Battery pack 3.7V 17Wh
- T198484; Pouch for FLIR Exx series
- T198485; Sun shield
- T198341ACC; Transport case Exx
- T198486; Tripod Adapter
- T199363ACC; Battery Li-ion 3.6 V, 5.2 Ah, 19 Wh
- T911689ACC; Pouch
- 19250-100; IR Window 2 in.
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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Website

<http://www.flir.com>

Customer support

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General description

The FLIR Exx series cameras are compact and rugged infrared cameras that can be used in harsh environments while still providing you with the latest technology such as a modern touch screen. A FLIR Exx series camera is the perfect choice when you are looking for a robust but feature-rich camera at an affordable price.

Benefits:

- Robust and sophisticated: The FLIR Exx series cameras have a robust and light-weight design and can withstand a 2 m drop. Large buttons combined with a modern touch screen and extensive measuring capabilities, they are the right choice for demanding inspections in the field.
- Best value for money: The FLIR Exx series cameras combine good performance (up to 320 × 240 pixels), a user-friendly interface, and a rugged point-and-shoot design with an affordable price.

Imaging and optical data

IR resolution	240 × 180 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	25° × 19°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	1.82 mrad
F-number	1.3
Image frequency	60 Hz
Focus	Manual
Digital zoom	2x and 4x
Panning	Panning over zoomed-in images

Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm

Image presentation

Display	Touch screen, 3.5 in. LCD, 320 × 240 pixels
Image adjustment	Auto or manual

P/N: 64502-1101

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Image presentation modes	
Image modes	IR image, visual image, MSX, picture in picture, thumbnail gallery
Picture in Picture	Scalable IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none"> -20°C to +120°C (-4°F to +248°F) 0°C to +650°C (+32°F to +1202°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading, for ambient temperature 10°C to 35°C (+50°F to 95°F)

Measurement analysis	
Spotmeter	3
Area	3 boxes with max./min./average
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
External optics/windows correction	Automatic, based on inputs of optics/window transmission and temperature
Measurement corrections	Reflected temperature, optics transmission and atmospheric transmission

Set-up	
Color palettes	Arctic, Gray, Iron, Lava, Rainbow and Rainbow HC
Set-up commands	Local adaptation of units, language, date and time formats

Storage of images	
Image storage	Standard JPEG, including measurement data, on memory card
Image storage mode	Simultaneous storage of images in IR, visual and MSX

Image annotations	
Text	Text from predefined list or soft keyboard on touch screen
Report generation	<ul style="list-style-type: none"> FLIR Tools software specifically designed to provide an easy way to create inspection reports. It is available on the major platforms – Android, Windows, MacOS, and iOS.

Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card

Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB
Non-radiometric IR video streaming	Uncompressed colorized video using USB



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Digital camera	
Built-in digital camera	3.1 Mpixels (2048 × 1536 pixels), and one LED light
Digital camera, focus	Fixed focus
Built-in digital lens data	FOV 53° × 41°
Digital camera, aspect ratio	4:3

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser
Laser power	1 mW
Laser wavelength	635 nm (red)

Data communication interfaces	
SD Card	One card slot for removable SD memory cards

USB	
USB	<ul style="list-style-type: none">• USB-A: Connect external USB device• USB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB Mini-B: 2.0
USB, connector type	<ul style="list-style-type: none">• USB-A connector• USB Mini-B connector

Composite video	
Video out	Composite
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC)
Video, connector type	4-pole 3.5 mm jack

Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	3.7 V
Battery capacity	4.4 Ah, at +20°C to +25°C (+68°F to +77°F)
Battery operating time	Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	4 h to 90% capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
Power management	Automatic shutdown and sleep mode (user selectable)
AC operation	AC adapter, 90–260 VAC input, 12 V output to camera
Start-up time from sleep mode	Instant on



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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Environmental data	
Operating temperature range	-15°C to +50°C (+5°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none">EN 61000-6-2 (Immunity)EN 61000-6-3 (Emission)FCC 47 CFR Part 15 B (Emission)
Magnetic fields	EN 61 000-4-8, Test level 5 for continuous field (severe industrial environment)
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Drop	2 m (6.6 ft.)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Camera weight, incl. battery	0.869 kg (1.91 lb.)
Camera size (L x W x H)	246 x 97 x 184 mm (9.7 x 3.8 x 7.2 in.)
Tripod mounting	UNC ¼"-20 (adapter needed)
Material	<ul style="list-style-type: none">Polycarbonate + acrylonitrile butadiene styrene (PC-ABS)Thixomold magnesiumThermoplastic elastomer (TPE)
Color	Graphite gray and black

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">Hard transport caseInfrared camera with lensBatteryHandstrapMemory cardPower supply, incl. multi-plugsPrinted documentationUSB cableVideo cable
Packaging, weight	5.2 kg (11.5 lb.)
Packaging, size	500 x 190 x 370 mm (19.7 x 7.5 x 14.6 in.)
EAN-13	4743254001237
UPC-12	845188005269
Country of origin	Estonia

Supplies & accessories:

- 1196961; IR lens, f = 30 mm, 15° incl. case
- 1196960; IR lens, f = 10 mm, 45° incl. case
- T910814; Power supply, incl. multi plugs
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- 1910582ACC; Video cable
- T911093; Tool belt
- T198125; Battery charger, incl. power supply with multi plugs (Exx, Kxx)
- T199235; High-temperature lens
- T198113; IR lens, 76 mm (6°) with case and mounting support for Exx
- T198487; Li-Ion Battery pack 3.7V 17Wh
- T198484; Pouch for FLIR Exx series
- T198485; Sun shield
- T198341ACC; Transport case Exx



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Website

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Customer support

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- T198486; Tripod Adapter
- T199363ACC; Battery Li-ion 3.6 V, 5.2 Ah, 19 Wh
- T911689ACC; Pouch
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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General description	
The FLIR Exx series cameras are compact and rugged infrared cameras that can be used in harsh environments while still providing you with the latest technology such as a modern touch screen and wireless connectivity. A FLIR Exx series camera is the perfect choice when you are looking for a robust but feature-rich camera at an affordable price.	
Benefits:	
<ul style="list-style-type: none"> • Robust and sophisticated: The FLIR Exx series cameras have a robust and light-weight design and can withstand a 2 m drop. Large buttons combined with a modern touch screen and extensive measuring capabilities, they are the right choice for demanding inspections in the field. • Easy communication: The Wi-Fi connectivity of the FLIR Exx series cameras allows you to connect to smart phones and tablets, for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLINK function transfers readings from external measurement instruments to the infrared image. • Best value for money: The FLIR Exx series cameras combine good performance (up to 320 × 240 pixels), a user-friendly interface, and a rugged point-and-shoot design with an affordable price. 	
Imaging and optical data	
IR resolution	240 × 180 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	25° × 19°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	1.82 mrad
F-number	1.3
Image frequency	60 Hz
Focus	Manual
Digital zoom	2x and 4x
Panning	Panning over zoomed-in images
Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
Image presentation	
Display	Touch screen, 3.5 in. LCD, 320 × 240 pixels
Image adjustment	Auto or manual



FLIR E50 (incl. Wi-Fi)

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Website

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Customer support

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Image presentation modes	
Image modes	IR image, visual image, MSX, picture in picture, thumbnail gallery
Picture in Picture	Scalable IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none">-20°C to +120°C (-4°F to +248°F)0°C to +650°C (+32°F to +1202°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading, for ambient temperature 10°C to 35°C (+50°F to 95°F)

Measurement analysis	
Spotmeter	3
Area	3 boxes with max./min./average
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
External optics/windows correction	Automatic, based on inputs of optics/window transmission and temperature
Measurement corrections	Reflected temperature, optics transmission and atmospheric transmission

Set-up	
Color palettes	Arctic, Gray, Iron, Lava, Rainbow and Rainbow HC
Set-up commands	Local adaptation of units, language, date and time formats

Storage of images	
Image storage	Standard JPEG, including measurement data, on memory card
Image storage mode	Simultaneous storage of images in IR, visual and MSX

Image annotations	
Voice	60 seconds (via Bluetooth)
Text	Text from predefined list or soft keyboard on touch screen
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none">FLIR Tools software specifically designed to provide an easy way to create inspection reports. It is available on the major platforms – Android, Windows, MacOS, and iOS.

Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card

Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB



FLIR E50 (incl. Wi-Fi)

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Website

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Customer support

<http://support.flir.com>

Video streaming	
Non-radiometric IR video streaming	Uncompressed colorized video using USB

Digital camera	
Built-in digital camera	3.1 Mpixels (2048 × 1536 pixels), and one LED light
Digital camera, focus	Fixed focus
Built-in digital lens data	FOV 53° × 41°
Digital camera, aspect ratio	4:3

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser
Laser power	1 mW
Laser wavelength	635 nm (red)

Data communication interfaces	
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards
Audio	Microphone headset via Bluetooth for voice annotation of images

USB	
USB	<ul style="list-style-type: none">• USB-A: Connect external USB device• USB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB Mini-B: 2.0
USB, connector type	<ul style="list-style-type: none">• USB-A connector• USB Mini-B connector

Composite video	
Video out	Composite
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC)
Video, connector type	4-pole 3.5 mm jack

Radio	
Wi-Fi	<ul style="list-style-type: none">• Standard: 802.11 b/g• Frequency range: 2412–2462 MHz• Max. output power: 15 dBm
Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	3.7 V
Battery capacity	4.4 Ah, at +20°C to +25°C (+68°F to +77°F)



FLIR E50 (incl. Wi-Fi)

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Power system	
Battery operating time	Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	4 h to 90% capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
Power management	Automatic shutdown and sleep mode (user selectable)
AC operation	AC adapter, 90–260 VAC input, 12 V output to camera
Start-up time from sleep mode	Instant on

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Magnetic fields	EN 61 000-4-8, Test level 5 for continuous field (severe industrial environment)
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Drop	2 m (6.6 ft.)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Camera weight, incl. battery	0.869 kg (1.91 lb.)
Camera size (L × W × H)	246 × 97 × 184 mm (9.7 × 3.8 × 7.2 in.)
Tripod mounting	UNC ¼"-20 (adapter needed)
Material	<ul style="list-style-type: none">• Polycarbonate + acrylonitrile butadiene styrene (PC-ABS)• Thixomold magnesium• Thermoplastic elastomer (TPE)
Color	Graphite gray and black

Shipping information	
Packaging, type	Cardboard box



FLIR E50 (incl. Wi-Fi)

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Shipping information

List of contents	<ul style="list-style-type: none">• Hard transport case• Infrared camera with lens• Battery• Handstrap• Memory card• Power supply, incl. multi-plugs• Printed documentation• USB cable• Video cable
Packaging, weight	5.2 kg (11.5 lb.)
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)
EAN-13	4743254001145
UPC-12	845188005177
Country of origin	Estonia

Supplies & accessories:

- 1196961; IR lens, f = 30 mm, 15° incl. case
- 1196960; IR lens, f = 10 mm, 45° incl. case
- T910814; Power supply, incl. multi plugs
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- 1910582ACC; Video cable
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- T198125; Battery charger, incl. power supply with multi plugs (Exx, Kxx)
- T199235; High-temperature lens
- T198113; IR lens, 76 mm (6°) with case and mounting support for Exx
- T198487; Li-Ion Battery pack 3.7V 17Wh
- T198484; Pouch for FLIR Exx series
- T198485; Sun shield
- T198341ACC; Transport case Exx
- T198486; Tripod Adapter
- T199363ACC; Battery Li-ion 3.6 V, 5.2 Ah, 19 Wh
- T911689ACC; Pouch
- 19250-100; IR Window 2 in.
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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Website

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Customer support

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General description	
The FLIR Exx series cameras are compact and rugged infrared cameras that can be used in harsh environments while still providing you with the latest technology such as a modern touch screen and wireless connectivity. A FLIR Exx series camera is the perfect choice when you are looking for a robust but feature-rich camera at an affordable price.	
Benefits:	
<ul style="list-style-type: none"> • Robust and sophisticated: The FLIR Exx series cameras have a robust and light-weight design and can withstand a 2 m drop. Large buttons combined with a modern touch screen and extensive measuring capabilities, they are the right choice for demanding inspections in the field. • Easy communication: The Wi-Fi connectivity of the FLIR Exx series cameras allows you to connect to smart phones and tablets, for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLINK function transfers readings from external measurement instruments to the infrared image. • Best value for money: The FLIR Exx series cameras combine good performance (up to 320 × 240 pixels), a user-friendly interface, and a rugged point-and-shoot design with an affordable price. 	
Imaging and optical data	
IR resolution	240 × 180 pixels
Thermal sensitivity/NETD	< 0.045°C @ +30°C (+86°F) / 45 mK
Field of view (FOV)	25° × 19°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	1.82 mrad
F-number	1.3
Image frequency	60 Hz
Focus	Manual
Digital zoom	2x and 4x
Panning	Panning over zoomed-in images
Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
Image presentation	
Display	Touch screen, 3.5 in. LCD, 320 × 240 pixels
Image adjustment	Auto or manual



FLIR E50bx (incl. Wi-Fi)

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Website

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Customer support

<http://support.flir.com>

Image presentation modes	
Image modes	IR image, visual image, MSX, picture in picture, thumbnail gallery
Picture in Picture	Scalable IR area on visual image

Measurement	
Object temperature range	-20°C to +120°C (-4°F to +248°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading, for ambient temperature 10°C to 35°C (+50°F to 95°F)

Measurement analysis	
Spotmeter	3
Area	3 boxes with max./min./average
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Measurement corrections	Reflected temperature, optics transmission and atmospheric transmission

Alarm	
Screening	Yes
Humidity alarm	1 humidity alarm, including dew point alarm
Insulation alarm	1 insulation alarm

Set-up	
Color palettes	Arctic, Gray, Iron, Lava, Rainbow and Rainbow HC
Set-up commands	Local adaptation of units, language, date and time formats

Storage of images	
Image storage	Standard JPEG, including measurement data, on memory card
Image storage mode	Simultaneous storage of images in IR, visual and MSX

Image annotations	
Voice	60 seconds (via Bluetooth)
Text	Text from predefined list or soft keyboard on touch screen
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none">FLIR Tools software specifically designed to provide an easy way to create inspection reports. It is available on the major platforms – Android, Windows, MacOS, and iOS.

Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card



FLIR E50bx (incl. Wi-Fi)

P/N: 64501-0601

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB
Non-radiometric IR video streaming	Uncompressed colorized video using USB

Digital camera	
Built-in digital camera	3.1 Mpixels (2048 × 1536 pixels), and one LED light
Digital camera, focus	Fixed focus
Built-in digital lens data	FOV 53° × 41°
Digital camera, aspect ratio	4:3

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser
Laser power	1 mW
Laser wavelength	635 nm (red)

Data communication interfaces	
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards
Audio	Microphone headset via Bluetooth for voice annotation of images

USB	
USB	<ul style="list-style-type: none">• USB-A: Connect external USB device• USB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB Mini-B: 2.0
USB, connector type	<ul style="list-style-type: none">• USB-A connector• USB Mini-B connector

Composite video	
Video out	Composite
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC)
Video, connector type	4-pole 3.5 mm jack

Radio	
Wi-Fi	<ul style="list-style-type: none">• Standard: 802.11 b/g• Frequency range: 2412–2462 MHz• Max. output power: 15 dBm
Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	3.7 V
Battery capacity	4.4 Ah, at +20°C to +25°C (+68°F to +77°F)



FLIR E50bx (incl. Wi-Fi)

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Power system	
Battery operating time	Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	4 h to 90% capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
Power management	Automatic shutdown and sleep mode (user selectable)
AC operation	AC adapter, 90–260 VAC input, 12 V output to camera
Start-up time from sleep mode	Instant on

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Magnetic fields	EN 61 000-4-8, Test level 5 for continuous field (severe industrial environment)
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Drop	2 m (6.6 ft.)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Camera weight, incl. battery	0.869 kg (1.91 lb.)
Camera size (L × W × H)	246 × 97 × 184 mm (9.7 × 3.8 × 7.2 in.)
Tripod mounting	UNC ¼"-20 (adapter needed)
Material	<ul style="list-style-type: none">• Polycarbonate + acrylonitrile butadiene styrene (PC-ABS)• Thixomold magnesium• Thermoplastic elastomer (TPE)
Color	Graphite gray and black

Shipping information	
Packaging, type	Cardboard box



FLIR E50bx (incl. Wi-Fi)

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>**Shipping information**

List of contents	<ul style="list-style-type: none"> • Hard transport case • Infrared camera with lens • Battery • Handstrap • Memory card • Power supply, incl. multi-plugs • Printed documentation • USB cable • Video cable
Packaging, weight	5.2 kg (11.5 lb.)
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)
EAN-13	4743254001183
UPC-12	845188005214
Country of origin	Estonia

Supplies & accessories:

- 1196961; IR lens, f = 30 mm, 15° incl. case
- 1196960; IR lens, f = 10 mm, 45° incl. case
- T910814; Power supply, incl. multi plugs
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- 1910582ACC; Video cable
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- T198125; Battery charger, incl. power supply with multi plugs (Exx, Kxx)
- T199235; High-temperature lens
- T198113; IR lens, 76 mm (6°) with case and mounting support for Exx
- T198487; Li-Ion Battery pack 3.7V 17Wh
- T198484; Pouch for FLIR Exx series
- T198485; Sun shield
- T198341ACC; Transport case Exx
- T198486; Tripod Adapter
- T199363ACC; Battery Li-ion 3.6 V, 5.2 Ah, 19 Wh
- T911689ACC; Pouch
- 19250-100; IR Window 2 in.
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

P/N: 64502-1202

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
The FLIR Exx series cameras are compact and rugged infrared cameras that can be used in harsh environments while still providing you with the latest technology such as a modern touch screen. A FLIR Exx series camera is the perfect choice when you are looking for a robust but feature-rich camera at an affordable price.	
Benefits:	
<ul style="list-style-type: none"> • Robust and sophisticated: The FLIR Exx series cameras have a robust and light-weight design and can withstand a 2 m drop. Large buttons combined with a modern touch screen and extensive measuring capabilities, they are the right choice for demanding inspections in the field. • Best value for money: The FLIR Exx series cameras combine good performance (up to 320 × 240 pixels), a user-friendly interface, and a rugged point-and-shoot design with an affordable price. 	
Imaging and optical data	
IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	25° × 19°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	1.36 mrad
F-number	1.3
Image frequency	60 Hz
Focus	Manual
Digital zoom	2x and 4x
Panning	Panning over zoomed-in images
Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
Image presentation	
Display	Touch screen, 3.5 in. LCD, 320 × 240 pixels
Image adjustment	Auto or manual

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Image presentation modes	
Image modes	IR image, visual image, MSX, picture in picture, thumbnail gallery
Picture in Picture	Scalable IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none"> -20°C to +120°C (-4°F to +248°F) 0°C to +650°C (+32°F to +1202°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading, for ambient temperature 10°C to 35°C (+50°F to 95°F)

Measurement analysis	
Spotmeter	3
Area	3 boxes with max./min./average
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
External optics/windows correction	Automatic, based on inputs of optics/window transmission and temperature
Measurement corrections	Reflected temperature, optics transmission and atmospheric transmission

Set-up	
Color palettes	Arctic, Gray, Iron, Lava, Rainbow and Rainbow HC
Set-up commands	Local adaptation of units, language, date and time formats

Storage of images	
Image storage	Standard JPEG, including measurement data, on memory card
Image storage mode	Simultaneous storage of images in IR, visual and MSX

Image annotations	
Text	Text from predefined list or soft keyboard on touch screen
Report generation	<ul style="list-style-type: none"> FLIR Tools software specifically designed to provide an easy way to create inspection reports. It is available on the major platforms – Android, Windows, MacOS, and iOS.

Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card

Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB
Non-radiometric IR video streaming	Uncompressed colorized video using USB



FLIR E60

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Digital camera	
Built-in digital camera	3.1 Mpixels (2048 × 1536 pixels), and one LED light
Digital camera, focus	Fixed focus
Built-in digital lens data	FOV 53° × 41°
Digital camera, aspect ratio	4:3

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser
Laser power	1 mW
Laser wavelength	635 nm (red)

Data communication interfaces	
SD Card	One card slot for removable SD memory cards

USB	
USB	<ul style="list-style-type: none">• USB-A: Connect external USB device• USB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB Mini-B: 2.0
USB, connector type	<ul style="list-style-type: none">• USB-A connector• USB Mini-B connector

Composite video	
Video out	Composite
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC)
Video, connector type	4-pole 3.5 mm jack

Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	3.7 V
Battery capacity	4.4 Ah, at +20°C to +25°C (+68°F to +77°F)
Battery operating time	Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	4 h to 90% capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
Power management	Automatic shutdown and sleep mode (user selectable)
AC operation	AC adapter, 90–260 VAC input, 12 V output to camera
Start-up time from sleep mode	Instant on

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Environmental data	
Operating temperature range	-15°C to +50°C (+5°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none"> EN 61000-6-2 (Immunity) EN 61000-6-3 (Emission) FCC 47 CFR Part 15 B (Emission)
Magnetic fields	EN 61 000-4-8, Test level 5 for continuous field (severe industrial environment)
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Drop	2 m (6.6 ft.)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Camera weight, incl. battery	0.869 kg (1.91 lb.)
Camera size (L × W × H)	246 × 97 × 184 mm (9.7 × 3.8 × 7.2 in.)
Tripod mounting	UNC ¼"-20 (adapter needed)
Material	<ul style="list-style-type: none"> Polycarbonate + acrylonitrile butadiene styrene (PC-ABS) Thixomold magnesium Thermoplastic elastomer (TPE)
Color	Graphite gray and black

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> Hard transport case Infrared camera with lens Battery (2 ea.) Battery charger Handstrap Memory card Power supply, incl. multi-plugs Printed documentation USB cable Video cable
Packaging, weight	5.5 kg (12.1 lb.)
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)
EAN-13	4743254001244
UPC-12	845188005276
Country of origin	Estonia

Supplies & accessories:

- 1196961; IR lens, f = 30 mm, 15° incl. case
- 1196960; IR lens, f = 10 mm, 45° incl. case
- T910814; Power supply, incl. multi plugs
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- 1910582ACC; Video cable
- T911093; Tool belt
- T198125; Battery charger, incl. power supply with multi plugs (Exx, Kxx)
- T199235; High-temperature lens
- T198113; IR lens, 76 mm (6°) with case and mounting support for Exx
- T198487; Li-Ion Battery pack 3.7V 17Wh
- T198484; Pouch for FLIR Exx series
- T198485; Sun shield



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Website

<http://www.flir.com>

Customer support

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- T198341ACC; Transport case Exx
- T198486; Tripod Adapter
- T199363ACC; Battery Li-ion 3.6 V, 5.2 Ah, 19 Wh
- T911689ACC; Pouch
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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General description	
The FLIR Exx series cameras are compact and rugged infrared cameras that can be used in harsh environments while still providing you with the latest technology such as a modern touch screen and wireless connectivity. A FLIR Exx series camera is the perfect choice when you are looking for a robust but feature-rich camera at an affordable price.	
Benefits:	
<ul style="list-style-type: none"> • Robust and sophisticated: The FLIR Exx series cameras have a robust and light-weight design and can withstand a 2 m drop. Large buttons combined with a modern touch screen and extensive measuring capabilities, they are the right choice for demanding inspections in the field. • Easy communication: The Wi-Fi connectivity of the FLIR Exx series cameras allows you to connect to smart phones and tablets, for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLINK function transfers readings from external measurement instruments to the infrared image. • Best value for money: The FLIR Exx series cameras combine good performance (up to 320 × 240 pixels), a user-friendly interface, and a rugged point-and-shoot design with an affordable price. 	
Imaging and optical data	
IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	25° × 19°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	1.36 mrad
F-number	1.3
Image frequency	60 Hz
Focus	Manual
Digital zoom	2× and 4×
Panning	Panning over zoomed-in images
Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
Image presentation	
Display	Touch screen, 3.5 in. LCD, 320 × 240 pixels
Image adjustment	Auto or manual



FLIR E60 (incl. Wi-Fi)

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Website

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Customer support

<http://support.flir.com>

Image presentation modes	
Image modes	IR image, visual image, MSX, picture in picture, thumbnail gallery
Picture in Picture	Scalable IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none">-20°C to +120°C (-4°F to +248°F)0°C to +650°C (+32°F to +1202°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading, for ambient temperature 10°C to 35°C (+50°F to 95°F)

Measurement analysis	
Spotmeter	3
Area	3 boxes with max./min./average
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
External optics/windows correction	Automatic, based on inputs of optics/window transmission and temperature
Measurement corrections	Reflected temperature, optics transmission and atmospheric transmission

Set-up	
Color palettes	Arctic, Gray, Iron, Lava, Rainbow and Rainbow HC
Set-up commands	Local adaptation of units, language, date and time formats

Storage of images	
Image storage	Standard JPEG, including measurement data, on memory card
Image storage mode	Simultaneous storage of images in IR, visual and MSX

Image annotations	
Voice	60 seconds (via Bluetooth)
Text	Text from predefined list or soft keyboard on touch screen
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none">FLIR Tools software specifically designed to provide an easy way to create inspection reports. It is available on the major platforms – Android, Windows, MacOS, and iOS.

Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card

Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB



FLIR E60 (incl. Wi-Fi)

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Website

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Video streaming	
Non-radiometric IR video streaming	Uncompressed colorized video using USB

Digital camera	
Built-in digital camera	3.1 Mpixels (2048 × 1536 pixels), and one LED light
Digital camera, focus	Fixed focus
Built-in digital lens data	FOV 53° × 41°
Digital camera, aspect ratio	4:3

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser
Laser power	1 mW
Laser wavelength	635 nm (red)

Data communication interfaces	
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards
Audio	Microphone headset via Bluetooth for voice annotation of images

USB	
USB	<ul style="list-style-type: none">• USB-A: Connect external USB device• USB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB Mini-B: 2.0
USB, connector type	<ul style="list-style-type: none">• USB-A connector• USB Mini-B connector

Composite video	
Video out	Composite
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC)
Video, connector type	4-pole 3.5 mm jack

Radio	
Wi-Fi	<ul style="list-style-type: none">• Standard: 802.11 b/g• Frequency range: 2412–2462 MHz• Max. output power: 15 dBm
Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	3.7 V
Battery capacity	4.4 Ah, at +20°C to +25°C (+68°F to +77°F)



FLIR E60 (incl. Wi-Fi)

P/N: 64501-0302

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Power system	
Battery operating time	Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	4 h to 90% capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
Power management	Automatic shutdown and sleep mode (user selectable)
AC operation	AC adapter, 90–260 VAC input, 12 V output to camera
Start-up time from sleep mode	Instant on

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Magnetic fields	EN 61 000-4-8, Test level 5 for continuous field (severe industrial environment)
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Drop	2 m (6.6 ft.)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Camera weight, incl. battery	0.869 kg (1.91 lb.)
Camera size (L × W × H)	246 × 97 × 184 mm (9.7 × 3.8 × 7.2 in.)
Tripod mounting	UNC ¼"-20 (adapter needed)
Material	<ul style="list-style-type: none">• Polycarbonate + acrylonitrile butadiene styrene (PC-ABS)• Thixomold magnesium• Thermoplastic elastomer (TPE)
Color	Graphite gray and black

Shipping information	
Packaging, type	Cardboard box



FLIR E60 (incl. Wi-Fi)

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>**Shipping information**

List of contents	<ul style="list-style-type: none"> • Hard transport case • Infrared camera with lens • Battery (2 ea.) • Battery charger • Handstrap • Memory card • Power supply, incl. multi-plugs • Printed documentation • USB cable • Video cable
Packaging, weight	5.5 kg (12.1 lb.)
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)
EAN-13	4743254001152
UPC-12	845188005184
Country of origin	Estonia

Supplies & accessories:

- 1196961; IR lens, f = 30 mm, 15° incl. case
- 1196960; IR lens, f = 10 mm, 45° incl. case
- T910814; Power supply, incl. multi plugs
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- 1910582ACC; Video cable
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- T198125; Battery charger, incl. power supply with multi plugs (Exx, Kxx)
- T199235; High-temperature lens
- T198113; IR lens, 76 mm (6°) with case and mounting support for Exx
- T198487; Li-Ion Battery pack 3.7V 17Wh
- T198484; Pouch for FLIR Exx series
- T198485; Sun shield
- T198341ACC; Transport case Exx
- T198486; Tripod Adapter
- T199363ACC; Battery Li-ion 3.6 V, 5.2 Ah, 19 Wh
- T911689ACC; Pouch
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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Website

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Customer support

<http://support.flir.com>



General description	
The FLIR Exx series cameras are compact and rugged infrared cameras that can be used in harsh environments while still providing you with the latest technology such as a modern touch screen and wireless connectivity. A FLIR Exx series camera is the perfect choice when you are looking for a robust but feature-rich camera at an affordable price.	
Benefits:	
<ul style="list-style-type: none"> • Robust and sophisticated: The FLIR Exx series cameras have a robust and light-weight design and can withstand a 2 m drop. Large buttons combined with a modern touch screen and extensive measuring capabilities, they are the right choice for demanding inspections in the field. • Easy communication: The Wi-Fi connectivity of the FLIR Exx series cameras allows you to connect to smart phones and tablets, for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLINK function transfers readings from external measurement instruments to the infrared image. • Best value for money: The FLIR Exx series cameras combine good performance (up to 320 × 240 pixels), a user-friendly interface, and a rugged point-and-shoot design with an affordable price. 	
Imaging and optical data	
IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<0.045°C @ +30°C (+86°F) / 45 mK
Field of view (FOV)	25° × 19°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	1.36 mrad
F-number	1.3
Image frequency	60 Hz
Focus	Manual
Digital zoom	2× and 4×
Panning	Panning over zoomed-in images
Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
Image presentation	
Display	Touch screen, 3.5 in. LCD, 320 × 240 pixels
Image adjustment	Auto or manual



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Image presentation modes	
Image modes	IR image, visual image, MSX, picture in picture, thumbnail gallery
Picture in Picture	Scalable IR area on visual image

Measurement	
Object temperature range	-20°C to +120°C (-4°F to +248°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading, for ambient temperature 10°C to 35°C (+50°F to 95°F)

Measurement analysis	
Spotmeter	3
Area	3 boxes with max./min./average
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Measurement corrections	Reflected temperature, optics transmission and atmospheric transmission

Alarm	
Screening	Yes
Humidity alarm	1 humidity alarm, including dew point alarm
Insulation alarm	1 insulation alarm

Set-up	
Color palettes	Arctic, Gray, Iron, Lava, Rainbow and Rainbow HC
Set-up commands	Local adaptation of units, language, date and time formats

Storage of images	
Image storage	Standard JPEG, including measurement data, on memory card
Image storage mode	Simultaneous storage of images in IR, visual and MSX

Image annotations	
Voice	60 seconds (via Bluetooth)
Text	Text from predefined list or soft keyboard on touch screen
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none">FLIR Tools software specifically designed to provide an easy way to create inspection reports. It is available on the major platforms – Android, Windows, MacOS, and iOS.

Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card



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Website

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Customer support

<http://support.flir.com>

Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB
Non-radiometric IR video streaming	Uncompressed colorized video using USB

Digital camera	
Built-in digital camera	3.1 Mpixels (2048 × 1536 pixels), and one LED light
Digital camera, focus	Fixed focus
Built-in digital lens data	FOV 53° × 41°
Digital camera, aspect ratio	4:3

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser
Laser power	1 mW
Laser wavelength	635 nm (red)

Data communication interfaces	
Wi-Fi	Peer-to-peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards
Audio	Microphone headset via Bluetooth for voice annotation of images

USB	
USB	<ul style="list-style-type: none">• USB-A: Connect external USB device• USB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB Mini-B: 2.0
USB, connector type	<ul style="list-style-type: none">• USB-A connector• USB Mini-B connector

Composite video	
Video out	Composite
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC)
Video, connector type	4-pole 3.5 mm jack

Radio	
Wi-Fi	Standard: 802.11 b/g Frequency range: 2412–2462 MHz Max. output power: 15 dBm
Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	3.7 V



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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Power system	
Battery capacity	4.4 Ah, at +20°C to +25°C (+68°F to +77°F)
Battery operating time	Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	4 hours to 90% capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
Power management	Automatic shutdown and sleep mode (user selectable)
AC operation	AC adapter, 90–260 VAC input, 12 V output to camera
Start-up time from sleep mode	Instant on

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Magnetic fields	EN 61 000-4-8, Test level 5 for continuous field (severe industrial environment)
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Drop	2 m (6.6 ft.)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Camera weight, incl. battery	0.869 kg (1.91 lb.)
Camera size (L × W × H)	246 × 97 × 184 mm (9.7 × 3.8 × 7.2 in.)
Tripod mounting	UNC ¼"-20 (adapter needed)
Material	<ul style="list-style-type: none">• Polycarbonate + acrylonitrile butadiene styrene (PC-ABS)• Thixomold magnesium• Thermoplastic elastomer (TPE)
Color	Graphite gray and black

Shipping information	
Packaging, type	Cardboard box



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Website<http://www.flir.com>**Customer support**<http://support.flir.com>**Shipping information**

List of contents	<ul style="list-style-type: none">• Hard transport case• Infrared camera with lens• Battery (2 ea.)• Battery charger• Handstrap• Memory card• Power supply, incl. multi-plugs• Printed documentation• USB cable• Video cable
Packaging, weight	5.5 kg (12.1 lb.)
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)
EAN-13	4743254001190
UPC-12	845188005221
Country of origin	Estonia

Supplies & accessories:

- 1196961; IR lens, f = 30 mm, 15° incl. case
- 1196960; IR lens, f = 10 mm, 45° incl. case
- T910814; Power supply, incl. multi plugs
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- 1910582ACC; Video cable
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- T198125; Battery charger, incl. power supply with multi plugs (Exx, Kxx)
- T199235; High-temperature lens
- T198113; IR lens, 76 mm (6°) with case and mounting support for Exx
- T198487; Li-Ion Battery pack 3.7V 17Wh
- T198484; Pouch for FLIR Exx series
- T198485; Sun shield
- T198341ACC; Transport case Exx
- T198486; Tripod Adapter
- T199363ACC; Battery Li-ion 3.6 V, 5.2 Ah, 19 Wh
- T911689ACC; Pouch
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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Website

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Customer support

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General description

The FLIR Exx series cameras are compact and rugged infrared cameras that can be used in harsh environments while still providing you with the latest technology such as a modern touch screen and wireless connectivity. A FLIR Exx series camera is the perfect choice when you are looking for a robust but feature-rich camera at an affordable price.

Benefits:

- **Robust and sophisticated:** The FLIR Exx series cameras have a robust and light-weight design and can withstand a 2 m drop. Large buttons combined with a modern touch screen and extensive measuring capabilities, they are the right choice for demanding inspections in the field.
- **Easy communication:** The Wi-Fi connectivity of the FLIR Exx series cameras allows you to connect to smart phones and tablets, for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLINK function transfers readings from external measurement instruments to the infrared image.
- **Best value for money:** The FLIR Exx series cameras combine good performance (up to 320 × 240 pixels), a user-friendly interface, and a rugged point-and-shoot design with an affordable price.

Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	25° × 19°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	1.36 mrad
F-number	1.3
Image frequency	60 Hz
Focus	Manual
Digital zoom	2× and 4×
Panning	Panning over zoomed-in images

Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm

Image presentation

Display	Touch screen, 3.5 in. LCD, 320 × 240 pixels
Image adjustment	Auto or manual



FLIR E63 (incl. Wi-Fi)

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Image presentation modes	
Image modes	IR image, visual image, MSX, picture in picture, thumbnail gallery
Picture in Picture	Scalable IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none">-20°C to +120°C (-4°F to +248°F)0°C to +650°C (+32°F to +1202°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading, for ambient temperature 10°C to 35°C (+50°F to 95°F)

Measurement analysis	
Spotmeter	5
Area	3 boxes with max./min.
Automatic hot/cold detection	Auto hot spotmeter marker within area
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
External optics/windows correction	Automatic, based on inputs of optics/window transmission and temperature
Measurement corrections	Reflected temperature, optics transmission and atmospheric transmission

Set-up	
Color palettes	Arctic, Gray, Iron, Lava, Rainbow and Rainbow HC
Set-up commands	Local adaptation of units, language, date and time formats

Storage of images	
Image storage	Standard JPEG, including measurement data, on memory card
Image storage mode	Simultaneous storage of images in IR, visual and MSX

Image annotations	
Voice	60 seconds (via Bluetooth)
Text	Text from soft keyboard on touch screen
METERLINK	Wireless connection (Bluetooth) to: Exttech Moisture Meter MO297 Exttech Clamp Meter EX845
Report generation	<ul style="list-style-type: none">FLIR Tools software specifically designed to provide an easy way to create inspection reports. It is available on the major platforms – Android, Windows, MacOS, and iOS.

Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card

Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Video streaming	
Non-radiometric IR video streaming	Uncompressed colorized video using USB

Digital camera	
Built-in digital camera	3.1 Mpixels (2048 × 1536 pixels), and one LED light
Digital camera, focus	Fixed focus
Built-in digital lens data	FOV 53° × 41°
Digital camera, aspect ratio	4:3

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser
Laser power	1 mW
Laser wavelength	635 nm (red)

Data communication interfaces	
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards
Audio	Microphone headset via Bluetooth for voice annotation of images

USB	
USB	<ul style="list-style-type: none">• USB-A: Connect external USB device• USB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB Mini-B: 2.0
USB, connector type	<ul style="list-style-type: none">• USB-A connector• USB Mini-B connector

Composite video	
Video out	Composite
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC)
Video, connector type	4-pole 3.5 mm jack

Radio	
Wi-Fi	<ul style="list-style-type: none">• Standard: 802.11 b/g• Frequency range: 2412–2462 MHz• Max. output power: 15 dBm
Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	3.7 V
Battery capacity	4.4 Ah, at +20°C to +25°C (+68°F to +77°F)



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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Power system	
Battery operating time	Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	4 h to 90% capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
Power management	Automatic shutdown and sleep mode (user selectable)
AC operation	AC adapter, 90–260 VAC input, 12 V output to camera
Start-up time from sleep mode	Instant on

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Magnetic fields	EN 61 000-4-8, Test level 5 for continuous field (severe industrial environment)
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Drop	2 m (6.6 ft.)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Camera weight, incl. battery	0.869 kg (1.91 lb.)
Camera size (L × W × H)	246 × 97 × 184 mm (9.7 × 3.8 × 7.2 in.)
Tripod mounting	UNC ¼"-20 (adapter needed)
Material	<ul style="list-style-type: none">• Polycarbonate + acrylonitrile butadiene styrene (PC-ABS)• Thixomold magnesium• Thermoplastic elastomer (TPE)
Color	Graphite gray and black

Shipping information	
Packaging, type	Cardboard box



FLIR E63 (incl. Wi-Fi)

P/N: 64501-0402

Revision

43545

Last modified

2017-06-28 14:11 UTC+1

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>**Shipping information**

List of contents	<ul style="list-style-type: none">• Hard transport case• Infrared camera with lens• Battery (2 ea.)• Battery charger• Handstrap• Memory card• Power supply, incl. multi-plugs• Printed documentation• USB cable• Video cable
Packaging, weight	5.5 kg (12.1 lb.)
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)
EAN-13	4743254001169
UPC-12	845188005191
Country of origin	Estonia

Supplies & accessories:

- 1196961; IR lens, f = 30 mm, 15° incl. case
- 1196960; IR lens, f = 10 mm, 45° incl. case
- T910814; Power supply, incl. multi plugs
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- 1910582ACC; Video cable
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- T198125; Battery charger, incl. power supply with multi plugs (Exx, Kxx)
- T199235; High-temperature lens
- T198113; IR lens, 76 mm (6°) with case and mounting support for Exx
- T198487; Li-Ion Battery pack 3.7V 17Wh
- T198484; Pouch for FLIR Exx series
- T198485; Sun shield
- T198341ACC; Transport case Exx
- T198486; Tripod Adapter
- T199363ACC; Battery Li-ion 3.6 V, 5.2 Ah, 19 Wh
- T911689ACC; Pouch
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

P/N: 64501-0315

Revision

43650

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2017-07-05 14:57 UTC+1

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General description
The kit consists of a FLIR E60 (incl. Wi-Fi) plus an educational kit card with download links for FLIR Tools+, FLIR ResearchIR Standard (incl. printed license key), and educational resources. See main product for full specifications.

Shipping information	
List of contents	<ul style="list-style-type: none"> • Hard transport case • Infrared camera with lens • Battery (2 ea.) • Battery charger • Handstrap • Memory card • Power supply, incl. multi-plugs • Printed documentation • USB cable • Video cable • Educational kit card with download links for FLIR Tools+, FLIR ResearchIR Standard (incl. printed license key), and educational resources.
EAN-13	4743254003453
UPC-12	845188014957
Country of origin	Estonia

Supplies & accessories:

FLIR Exx (2017) series

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P/N: 84502-0201

Revision

48014

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Website

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Customer support

<http://support.flir.com>



Imaging and optical data	
Infrared resolution	240 × 180 pixels
NETD	<40 mK @ +30°C (+86°F)
Field of view	24° × 18°
Minimum focus distance	0.15 m (0.49 ft.)
Minimum focus distance with MSX	0.5 m (1.64 ft.)
Focal length	17 mm (0.67 in.)
Spatial resolution (IFOV)	1.75 mrad/pixel
Lens identification	Automatic
f number	1.3
Image frequency	30 Hz
Focus	Manual
Field of view match	Yes
Digital zoom	1–4x continuous

Detector data	
Focal plane array/spectral range	Uncooled microbolometer/7.5–14 μm
Detector pitch	17 μm

Image presentation	
Resolution	640 × 480 pixels (VGA)
Surface brightness (cd/m ²)	400
Screen size	4 in.
Viewing angle	80°
Color depth (bits)	24
Aspect ratio	4:3
Auto-rotation	Yes
Touchscreen	Optically bonded PCAP
Display technology	IPS
Cover glass material	Dragontrail®
Programmable buttons	1
Viewfinder	No
Image adjustment	<ul style="list-style-type: none"> • Automatic • Automatic maximum • Automatic minimum • Manual



FLIR E53 24°

P/N: 84502-0201

Revision

48014

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Image presentation modes	
Infrared image	Yes
Visual image	Yes
Thermal fusion	No
MSX	Yes
Picture in Picture	Centered infrared area on the visual image
Gallery	Yes

Measurement		
Camera temperature range	Object temperature range	Accuracy — for ambient temperature +15 to +35°C (+59 to +95°F)
-20 to +120°C (-4 to +248°F)	-20 to +0°C (-4 to +32°F)	±2°C (±3.6°F)
	0 to +100°C (+32 to +212°F)	±2°C (±3.6°F)
	+100 to +120°C (+212 to +248°F)	±2%
0 to +650°C (+32 to +1202°F)	0 to +100°C (+32 to +212°F)	±2°C (±3.6°F)
	+100 to + 650°C (+212 to +1202°F)	±2%

Measurement analysis	
Spotmeter	3 in live mode
Area	1 in live mode
Automatic hot/cold detection	Auto-maximum/minimum markers within area
Measurement presets	<ul style="list-style-type: none"> No measurements Center spot Hot spot Cold spot 3 spots Hot spot-Spot
Difference temperature	Yes: as preset (Hot spot-Spot)
Reference temperature	Yes: in preview mode
Emissivity correction	Yes: variable from 0.01 to 1.0 or selected from materials list
Measurement corrections	Yes
External optics/windows correction	Yes
Screening	0.5°C (0.9°F) accuracy @ 37°C (98.6°F) with reference

Alarm	
Color alarm (isotherm)	<ul style="list-style-type: none"> Above Below Interval Condensation (moisture/humidity/dewpoint) Insulation
Measurement function alarm	Audible/visual alarms (above/below)

Set-up	
Color palettes	<ul style="list-style-type: none"> Iron Gray Rainbow Arctic Lava Rainbow HC



FLIR E53 24°

P/N: 84502-0201

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Set-up	
Setup commands	Local adaptation of units, language, date and time formats
Languages	21

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Storage media	Removable memory; SD card (8 GB)
Remote control operation	<ul style="list-style-type: none">Using FLIR Tools (using USB cable)FLIR Tools Mobile (over Wi-Fi)
Image file format	Standard JPEG, measurement data included. Infrared-only mode

Image annotations	
Voice	60 seconds built-in microphone and speaker (and via Bluetooth) on still images and video
Text	Text from predefined list or soft keyboard on touchscreen
Visual image annotation	Yes
Image sketch	Yes: on infrared images only
Sketch	From touchscreen
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Compass	Yes
Laser distance meter information	No
Area measurement information	No
GPS	Yes: location data automatically added to every still image and the first frame in video from built-in GPS

Video recording in camera	
Radiometric infrared-video recording	RTRR (.csq)
Non-radiometric infrared-video recording	H.264 to memory card
Visual video recording	H.264 to memory card

Video streaming	
Radiometric infrared-video streaming (compressed)	Yes: over UVC or RTSP (Wi-Fi)
Non-radiometric video streaming (compressed: IR, MSX, visual, Picture in Picture)	<ul style="list-style-type: none">H.264 (AVC) over RTSP (Wi-Fi)MPEG4 over RTSP (Wi-Fi)MJPEG over UVC and RTSP (Wi-Fi)
Visual video streaming	Yes

Digital camera	
Resolution	5 MP with LED light
Focus	Fixed
Field of view	53° × 41°
Video lamp	Built-in LED light



FLIR E53 24°

P/N: 84502-0201

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Laser pointer	
Laser pointer	Yes

Data communication interfaces	
Interfaces	USB 2.0, Bluetooth, Wi-Fi, DisplayPort
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (<i>ad hoc</i>) or infrastructure (network)
Audio	Microphone and speaker for voice annotation of images
USB	USB Type-C: data transfer/video/power
USB standard	USB 2.0 High Speed
Video out	DisplayPort
Video connector type	DisplayPort over USB Type-C

Power system	
Battery type	Rechargeable Li-ion battery
Battery voltage	3.6 V
Battery operating time	> 2.5 hours at 25°C (68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or two-bay charger
Charging time (using two-bay charger)	2.5 hours to 90% capacity with charging status indicated by LEDs
Charging temperature	0°C to +45°C (+32°F to +113°F), except for the Korean market: +10°C to +45°C (+50°F to +113°F)
External power operation	AC adapter 90–260 V AC, 50/60 Hz, or 12 V from a vehicle (cable with standard plug—optional)
Power management	Automatic shut-down and sleep mode

Environmental data	
Operating temperature range	–15 to +50°C (5–122°F)
Storage temperature range	–40 to +70°C (–40 to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 hours/95% relative humidity 25–40°C (77–104°F)/two cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (immunity)• EN 61000-6-3 (emission)• FCC 47 CFR Part 15 Class B (emission)
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.249• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25g (IEC 60068-2-27)
Vibration	2g (IEC 60068-2-6)
Drop	Designed for 2 m (6.6 ft.)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight (including battery)	1 kg (2.2 lb.)
Size (L × W × H)	278.4 × 116.1 × 113.1 mm (11.0 × 4.6 × 4.4 in.)

P/N: 84502-0201

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48014

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Physical data	
Battery weight	140 g (4.9 oz.)
Battery size (L × W × H)	150 × 46 × 55 mm (5.9 × 1.8 × 2.2 in.)
Tripod mounting	UNC ¼"-20
Housing material	PCABS with TPE, magnesium
Color	Black

Warranty and service	
Warranty	http://www.flir.com/warranty/

Shipping information	
Packaging, type	Cardboard box
Packaging, contents	<ul style="list-style-type: none"> • Battery (2 ea) • Battery charger • Hard transport case • Infrared camera with lens • Lens cap, front • Accessory Box I: <ul style="list-style-type: none"> • SD card (8 GB) • USB 2.0 A to USB Type-C cable, 1.0 m • USB Type-C to HDMI adapter, standard specification UH311 • USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m • Power supply for battery charger • Power supply, 15 W/3 A • Printed documentation • Accessory box II: <ul style="list-style-type: none"> • Hand strap • Lanyard strap, camera • Wrist strap • Lens cap strap • Front protection • Carabiner hook • Accessory box III: <ul style="list-style-type: none"> • Hand strap bracket, right • Hand strap bracket, left • Torx T10 wrench • Front protection fastener • Screws
Packaging, weight	5.4 kg (11.9 lb.)
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)
EAN-13	4743254003781
UPC-12	845188016630
Country of origin	Estonia

Supplies & accessories:

- T197771ACC; Bluetooth Headset
- T199425ACC; Battery charger
- T911689ACC; Pouch
- T911706ACC; Car adapter 12 V
- T911705ACC; USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m
- T911632ACC; USB Type-C to HDMI adapter, standard specification UH311
- T911631ACC; USB 2.0 A to USB Type-C cable, 0.9 m
- T911630ACC; Power supply for camera, 15 W/3 A
- T199346ACC; Hard transport case
- T911633ACC; Power supply for battery charger
- T199330ACC; Battery
- T199557ACC; Accessory Box II
- T199559; High temperature option, +300 to +1000°C
- T198583; FLIR Tools+ (download card incl. license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)

P/N: 78501-0101

Revision

48015

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Imaging and optical data	
Infrared resolution	320 × 240 pixels
UltraMax (super-resolution)	In FLIR Tools
NETD	<ul style="list-style-type: none"> • <30 mK, 42° @ +30°C (+86°F) • <40 mK, 24° @ +30°C (+86°F) • <50 mK, 14° @ +30°C (+86°F)
Field of view	<ul style="list-style-type: none"> • 42° × 32° • 24° × 18° • 14° × 10°
Minimum focus distance	<ul style="list-style-type: none"> • 0.15 m (0.49 ft.), 42° • 0.15 m (0.49 ft.), 24° • 1.0 m (3.28 ft.), 14°
Minimum focus distance with MSX	<ul style="list-style-type: none"> • 0.65 m (2.13 ft.), 42° • 0.5 m (1.64 ft.), 24° • 1.0 m (3.28 ft.), 14°
Focal length	<ul style="list-style-type: none"> • 10 mm (0.39 in.), 42° • 17 mm (0.67 in.), 24° • 29 mm (1.41 in.), 14°
Spatial resolution (IFOV)	<ul style="list-style-type: none"> • 2.41 mrad/pixel, 42° • 1.31 mrad/pixel, 24° • 0.75 mrad/pixel, 14°
Additional lenses	<ul style="list-style-type: none"> • 42° • 24°
Lens identification	Automatic
f number	<ul style="list-style-type: none"> • 1.1, 42° • 1.3, 24° • 1.5, 14°
Image frequency	30 Hz
Focus	<ul style="list-style-type: none"> • Continuous LDM • One-shot LDM • One-shot contrast • Manual
Field of view match	Yes
Digital zoom	1–4x continuous
Detector data	
Focal plane array/spectral range	Uncooled microbolometer/7.5–14 μm
Detector pitch	17 μm



FLIR E75 14°

P/N: 78501-0101

Revision

48015

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Image presentation	
Resolution	640 × 480 pixels (VGA)
Surface brightness (cd/m ²)	400
Screen size	4 in.
Viewing angle	80°
Color depth (bits)	24
Aspect ratio	4:3
Auto-rotation	Yes
Touchscreen	Optically bonded PCAP
Display technology	IPS
Cover glass material	Dragontrail®
Programmable buttons	1
Viewfinder	No
Image adjustment	<ul style="list-style-type: none"> • Automatic • Automatic maximum • Automatic minimum • Manual

Image presentation modes	
Infrared image	Yes
Visual image	Yes
Thermal fusion	No
MSX	Yes
Picture in Picture	Resizable and movable
Gallery	Yes

Measurement		
Camera temperature range	Object temperature range	Accuracy — for ambient temperature +15 to +35°C (+59 to +95°F)
-20 to +120°C (-4 to +248°F)	-20 to +0°C (-4 to +32°F)	±2°C (±3.6°F)
	0 to +100°C (+32 to +212°F)	±2°C (±3.6°F)
	+100 to +120°C (+212 to +248°F)	±2%
0 to +650°C (+32 to +1202°F)	0 to +100°C (+32 to +212°F)	±2°C (±3.6°F)
	+100 to + 650°C (+212 to +1202°F)	±2%
Optional +300 to +1000°C (+572 to +1832°F)	+300 to +1000°C (+572 to +1832°F)	±2%

Measurement analysis	
Spotmeter	1 in live mode
Area	1 in live mode
Automatic hot/cold detection	Auto-maximum/minimum markers within area
Measurement presets	<ul style="list-style-type: none"> • No measurements • Center spot • Hot spot • Cold spot • User preset 1 • User preset 2

P/N: 78501-0101

Revision

48015

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Measurement analysis	
Difference temperature	Yes
Reference temperature	Yes
Emissivity correction	Yes: variable from 0.01 to 1.0 or selected from materials list
Measurement corrections	Yes
External optics/windows correction	Yes
Screening	0.5°C (0.9°F) accuracy @ 37°C (98.6°F) with reference

Alarm	
Color alarm (isotherm)	<ul style="list-style-type: none"> Above Below Interval Condensation (moisture/humidity/dewpoint) Insulation
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function

Set-up	
Color palettes	<ul style="list-style-type: none"> Iron Gray Rainbow Arctic Lava Rainbow HC
Setup commands	Local adaptation of units, language, date and time formats
Languages	21

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Storage media	Removable memory; SD card (8 GB)
Time lapse (periodic image storage)	No
Remote control operation	<ul style="list-style-type: none"> Using FLIR Tools (using USB cable) FLIR Tools Mobile (over Wi-Fi)
Image file format	Standard JPEG, measurement data included. Infrared-only mode

Image annotations	
Voice	60 seconds built-in microphone and speaker (and via Bluetooth) on still images and video
Text	Text from predefined list or soft keyboard on touchscreen
Visual image annotation	Yes
Image sketch	Yes: on infrared images only
Sketch	From touchscreen
METERLINK	Wireless connection (Bluetooth) to: FLIR meters with METERLINK
Compass	Yes
Laser distance meter information	Yes



FLIR E75 14°

P/N: 78501-0101

Revision

48015

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2018-03-08 10:46 UTC+1

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Website

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Customer support

<http://support.flir.com>

Image annotations	
Area measurement information	No
GPS	Yes: location data automatically added to every still image and the first frame in video from built-in GPS

Video recording in camera	
Radiometric infrared-video recording	RTRR (.csq)
Non-radiometric infrared-video recording	H.264 to memory card
Visual video recording	H.264 to memory card

Video streaming	
Radiometric infrared-video streaming (compressed)	Yes: over UVC or RTSP (Wi-Fi)
Non-radiometric video streaming (compressed: IR, MSX, visual, Picture in Picture)	<ul style="list-style-type: none">• H.264 (AVC) over RTSP (Wi-Fi)• MPEG4 over RTSP (Wi-Fi)• MJPEG over UVC and RTSP (Wi-Fi)
Visual video streaming	Yes

Digital camera	
Resolution	5 MP with LED light
Focus	Fixed
Field of view	53° × 41°
Video lamp	Built-in LED light

Laser pointer	
Laser alignment	Position is automatically displayed on the infrared image
Laser distance meter	Activated by a dedicated button
Laser	Class 2, 0.05–40 m (1.6–131 ft.) ±1% of measured distance

Data communication interfaces	
Interfaces	USB 2.0, Bluetooth, Wi-Fi, DisplayPort
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (<i>ad hoc</i>) or infrastructure (network)
Audio	Microphone and speaker for voice annotation of images
USB	USB Type-C: data transfer/video/power
USB standard	USB 2.0 High Speed
Video out	DisplayPort
Video connector type	DisplayPort over USB Type-C

Power system	
Battery type	Rechargeable Li-ion battery
Battery voltage	3.6 V
Battery operating time	> 2.5 hours at 25°C (68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or two-bay charger



FLIR E75 14°

P/N: 78501-0101

Revision

48015

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Power system	
Charging time (using two-bay charger)	2.5 hours to 90% capacity with charging status indicated by LEDs
Charging temperature	0°C to +45°C (+32°F to +113°F), except for the Korean market: +10°C to +45°C (+50°F to +113°F)
External power operation	AC adapter 90–260 V AC, 50/60 Hz, or 12 V from a vehicle (cable with standard plug—optional)
Power management	Automatic shut-down and sleep mode

Environmental data	
Operating temperature range	–15 to +50°C (5–122°F)
Storage temperature range	–40 to +70°C (–40 to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 hours/95% relative humidity 25–40°C (77–104°F)/two cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (immunity)• EN 61000-6-3 (emission)• FCC 47 CFR Part 15 Class B (emission)
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.249• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25g (IEC 60068-2-27)
Vibration	2g (IEC 60068-2-6)
Drop	Designed for 2 m (6.6 ft.)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight (including battery)	1 kg (2.2 lb.)
Size (L × W × H)	278.4 × 116.1 × 113.1 mm (11.0 × 4.6 × 4.4 in.)
Battery weight	140 g (4.9 oz.)
Battery size (L × W × H)	150 × 46 × 55 mm (5.9 × 1.8 × 2.2 in.)
Tripod mounting	UNC ¼"-20
Housing material	PCABS with TPE, magnesium
Color	Black

Warranty and service	
Warranty	http://www.flir.com/warranty/

Shipping information	
Packaging, type	Cardboard box



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Website

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Customer support

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Shipping information	
Packaging, contents	<ul style="list-style-type: none">• Battery (2 ea)• Battery charger• Hard transport case• Infrared camera with lens• Lens cap, front• Lens cap, front and rear (only for extra lenses)• Accessory Box I:<ul style="list-style-type: none">• SD card (8 GB)• USB 2.0 A to USB Type-C cable, 1.0 m• USB Type-C to HDMI adapter, standard specification UH311• USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m• Power supply for battery charger• Power supply, 15 W/3 A• Printed documentation• Accessory box II:<ul style="list-style-type: none">• Hand strap• Lanyard strap, camera• Wrist strap• Lens cap strap• Front protection• Carabiner hook• Accessory box III:<ul style="list-style-type: none">• Hand strap bracket, right• Hand strap bracket, left• Torx T10 wrench• Front protection fastener• Screws
Packaging, weight	5.8 kg (12.8 lb.)
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)
EAN-13	4743254003811
UPC-12	845188016760
Country of origin	Estonia

Supplies & accessories:

- T197771ACC; Bluetooth Headset
- T199425ACC; Battery charger
- T911689ACC; Pouch
- T911706ACC; Car adapter 12 V
- T199588; Lens 14° + case
- T199590; Lens 42° + case
- T199589; Lens 24° + case
- T911705ACC; USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m
- T911632ACC; USB Type-C to HDMI adapter, standard specification UH311
- T911631ACC; USB 2.0 A to USB Type-C cable, 0.9 m
- T911630ACC; Power supply for camera, 15 W/3 A
- T199346ACC; Hard transport case
- T911633ACC; Power supply for battery charger
- T199330ACC; Battery
- T199557ACC; Accessory Box II
- T199559; High temperature option, +300 to +1000°C
- T198583; FLIR Tools+ (download card incl. license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)

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Website

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Customer support

<http://support.flir.com>



Imaging and optical data	
Infrared resolution	320 × 240 pixels
UltraMax (super-resolution)	In FLIR Tools
NETD	<ul style="list-style-type: none"> <30 mK, 42° @ +30°C (+86°F) <40 mK, 24° @ +30°C (+86°F) <50 mK, 14° @ +30°C (+86°F)
Field of view	<ul style="list-style-type: none"> 42° × 32° 24° × 18° 14° × 10°
Minimum focus distance	<ul style="list-style-type: none"> 0.15 m (0.49 ft.), 42° 0.15 m (0.49 ft.), 24° 1.0 m (3.28 ft.), 14°
Minimum focus distance with MSX	<ul style="list-style-type: none"> 0.65 m (2.13 ft.), 42° 0.5 m (1.64 ft.), 24° 1.0 m (3.28 ft.), 14°
Focal length	<ul style="list-style-type: none"> 10 mm (0.39 in.), 42° 17 mm (0.67 in.), 24° 29 mm (1.41 in.), 14°
Spatial resolution (IFOV)	<ul style="list-style-type: none"> 2.41 mrad/pixel, 42° 1.31 mrad/pixel, 24° 0.75 mrad/pixel, 14°
Additional lenses	<ul style="list-style-type: none"> 42° 14°
Lens identification	Automatic
f number	<ul style="list-style-type: none"> 1.1, 42° 1.3, 24° 1.5, 14°
Image frequency	30 Hz
Focus	<ul style="list-style-type: none"> Continuous LDM One-shot LDM One-shot contrast Manual
Field of view match	Yes
Digital zoom	1–4x continuous
Detector data	
Focal plane array/spectral range	Uncooled microbolometer/7.5–14 μm
Detector pitch	17 μm



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Image presentation	
Resolution	640 × 480 pixels (VGA)
Surface brightness (cd/m ²)	400
Screen size	4 in.
Viewing angle	80°
Color depth (bits)	24
Aspect ratio	4:3
Auto-rotation	Yes
Touchscreen	Optically bonded PCAP
Display technology	IPS
Cover glass material	Dragontrail®
Programmable buttons	1
Viewfinder	No
Image adjustment	<ul style="list-style-type: none"> • Automatic • Automatic maximum • Automatic minimum • Manual

Image presentation modes	
Infrared image	Yes
Visual image	Yes
Thermal fusion	No
MSX	Yes
Picture in Picture	Resizable and movable
Gallery	Yes

Measurement		
Camera temperature range	Object temperature range	Accuracy — for ambient temperature +15 to +35°C (+59 to +95°F)
-20 to +120°C (-4 to +248°F)	-20 to +0°C (-4 to +32°F)	±2°C (±3.6°F)
	0 to +100°C (+32 to +212°F)	±2°C (±3.6°F)
	+100 to +120°C (+212 to +248°F)	±2%
0 to +650°C (+32 to +1202°F)	0 to +100°C (+32 to +212°F)	±2°C (±3.6°F)
	+100 to + 650°C (+212 to +1202°F)	±2%
Optional +300 to +1000°C (+572 to +1832°F)	+300 to +1000°C (+572 to +1832°F)	±2%

Measurement analysis	
Spotmeter	1 in live mode
Area	1 in live mode
Automatic hot/cold detection	Auto-maximum/minimum markers within area
Measurement presets	<ul style="list-style-type: none"> • No measurements • Center spot • Hot spot • Cold spot • User preset 1 • User preset 2



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Website

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Customer support

<http://support.flir.com>

Measurement analysis	
Difference temperature	Yes
Reference temperature	Yes
Emissivity correction	Yes: variable from 0.01 to 1.0 or selected from materials list
Measurement corrections	Yes
External optics/windows correction	Yes
Screening	0.5°C (0.9°F) accuracy @ 37°C (98.6°F) with reference

Alarm	
Color alarm (isotherm)	<ul style="list-style-type: none"> Above Below Interval Condensation (moisture/humidity/dewpoint) Insulation
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function

Set-up	
Color palettes	<ul style="list-style-type: none"> Iron Gray Rainbow Arctic Lava Rainbow HC
Setup commands	Local adaptation of units, language, date and time formats
Languages	21

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Storage media	Removable memory; SD card (8 GB)
Time lapse (periodic image storage)	No
Remote control operation	<ul style="list-style-type: none"> Using FLIR Tools (using USB cable) FLIR Tools Mobile (over Wi-Fi)
Image file format	Standard JPEG, measurement data included. Infrared-only mode

Image annotations	
Voice	60 seconds built-in microphone and speaker (and via Bluetooth) on still images and video
Text	Text from predefined list or soft keyboard on touchscreen
Visual image annotation	Yes
Image sketch	Yes: on infrared images only
Sketch	From touchscreen
METERLINK	Wireless connection (Bluetooth) to: FLIR meters with METERLINK
Compass	Yes
Laser distance meter information	Yes



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Image annotations	
Area measurement information	No
GPS	Yes: location data automatically added to every still image and the first frame in video from built-in GPS

Video recording in camera	
Radiometric infrared-video recording	RTRR (.csq)
Non-radiometric infrared-video recording	H.264 to memory card
Visual video recording	H.264 to memory card

Video streaming	
Radiometric infrared-video streaming (compressed)	Yes: over UVC or RTSP (Wi-Fi)
Non-radiometric video streaming (compressed: IR, MSX, visual, Picture in Picture)	<ul style="list-style-type: none"> H.264 (AVC) over RTSP (Wi-Fi) MPEG4 over RTSP (Wi-Fi) MJPEG over UVC and RTSP (Wi-Fi)
Visual video streaming	Yes

Digital camera	
Resolution	5 MP with LED light
Focus	Fixed
Field of view	53° × 41°
Video lamp	Built-in LED light

Laser pointer	
Laser alignment	Position is automatically displayed on the infrared image
Laser distance meter	Activated by a dedicated button
Laser	Class 2, 0.05–40 m (1.6–131 ft.) ±1% of measured distance

Data communication interfaces	
Interfaces	USB 2.0, Bluetooth, Wi-Fi, DisplayPort
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (<i>ad hoc</i>) or infrastructure (network)
Audio	Microphone and speaker for voice annotation of images
USB	USB Type-C: data transfer/video/power
USB standard	USB 2.0 High Speed
Video out	DisplayPort
Video connector type	DisplayPort over USB Type-C

Power system	
Battery type	Rechargeable Li-ion battery
Battery voltage	3.6 V
Battery operating time	> 2.5 hours at 25°C (68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or two-bay charger



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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Power system	
Charging time (using two-bay charger)	2.5 hours to 90% capacity with charging status indicated by LEDs
Charging temperature	0°C to +45°C (+32°F to +113°F), except for the Korean market: +10°C to +45°C (+50°F to +113°F)
External power operation	AC adapter 90–260 V AC, 50/60 Hz, or 12 V from a vehicle (cable with standard plug—optional)
Power management	Automatic shut-down and sleep mode

Environmental data	
Operating temperature range	–15 to +50°C (5–122°F)
Storage temperature range	–40 to +70°C (–40 to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 hours/95% relative humidity 25–40°C (77–104°F)/two cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (immunity)• EN 61000-6-3 (emission)• FCC 47 CFR Part 15 Class B (emission)
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.249• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25g (IEC 60068-2-27)
Vibration	2g (IEC 60068-2-6)
Drop	Designed for 2 m (6.6 ft.)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight (including battery)	1 kg (2.2 lb.)
Size (L × W × H)	278.4 × 116.1 × 113.1 mm (11.0 × 4.6 × 4.4 in.)
Battery weight	140 g (4.9 oz.)
Battery size (L × W × H)	150 × 46 × 55 mm (5.9 × 1.8 × 2.2 in.)
Tripod mounting	UNC ¼"-20
Housing material	PCABS with TPE, magnesium
Color	Black

Warranty and service	
Warranty	http://www.flir.com/warranty/

Shipping information	
Packaging, type	Cardboard box

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Shipping information	
Packaging, contents	<ul style="list-style-type: none"> Battery (2 ea) Battery charger Hard transport case Infrared camera with lens Lens cap, front Lens cap, front and rear (only for extra lenses) Accessory Box I: <ul style="list-style-type: none"> SD card (8 GB) USB 2.0 A to USB Type-C cable, 1.0 m USB Type-C to HDMI adapter, standard specification UH311 USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m Power supply for battery charger Power supply, 15 W/3 A Printed documentation Accessory box II: <ul style="list-style-type: none"> Hand strap Lanyard strap, camera Wrist strap Lens cap strap Front protection Carabiner hook Accessory box III: <ul style="list-style-type: none"> Hand strap bracket, right Hand strap bracket, left Torx T10 wrench Front protection fastener Screws
Packaging, weight	5.8 kg (12.8 lb.)
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)
EAN-13	4743254002654
UPC-12	845188013882
Country of origin	Estonia

Supplies & accessories:

- T197771ACC; Bluetooth Headset
- T199425ACC; Battery charger
- T911689ACC; Pouch
- T911706ACC; Car adapter 12 V
- T199588; Lens 14° + case
- T199590; Lens 42° + case
- T199589; Lens 24° + case
- T911705ACC; USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m
- T911632ACC; USB Type-C to HDMI adapter, standard specification UH311
- T911631ACC; USB 2.0 A to USB Type-C cable, 0.9 m
- T911630ACC; Power supply for camera, 15 W/3 A
- T199346ACC; Hard transport case
- T911633ACC; Power supply for battery charger
- T199330ACC; Battery
- T199557ACC; Accessory Box II
- T199559; High temperature option, +300 to +1000°C
- T198583; FLIR Tools+ (download card incl. license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Imaging and optical data	
Infrared resolution	320 × 240 pixels
UltraMax (super-resolution)	In FLIR Tools
NETD	<ul style="list-style-type: none"> • <30 mK, 42° @ +30°C (+86°F) • <40 mK, 24° @ +30°C (+86°F) • <50 mK, 14° @ +30°C (+86°F)
Field of view	<ul style="list-style-type: none"> • 42° × 32° • 24° × 18° • 14° × 10°
Minimum focus distance	<ul style="list-style-type: none"> • 0.15 m (0.49 ft.), 42° • 0.15 m (0.49 ft.), 24° • 1.0 m (3.28 ft.), 14°
Minimum focus distance with MSX	<ul style="list-style-type: none"> • 0.65 m (2.13 ft.), 42° • 0.5 m (1.64 ft.), 24° • 1.0 m (3.28 ft.), 14°
Focal length	<ul style="list-style-type: none"> • 10 mm (0.39 in.), 42° • 17 mm (0.67 in.), 24° • 29 mm (1.41 in.), 14°
Spatial resolution (IFOV)	<ul style="list-style-type: none"> • 2.41 mrad/pixel, 42° • 1.31 mrad/pixel, 24° • 0.75 mrad/pixel, 14°
Additional lenses	<ul style="list-style-type: none"> • 42°
Lens identification	Automatic
f number	<ul style="list-style-type: none"> • 1.1, 42° • 1.3, 24° • 1.5, 14°
Image frequency	30 Hz
Focus	<ul style="list-style-type: none"> • Continuous LDM • One-shot LDM • One-shot contrast • Manual
Field of view match	Yes
Digital zoom	1–4× continuous
Detector data	
Focal plane array/spectral range	Uncooled microbolometer/7.5–14 μm
Detector pitch	17 μm



FLIR E75 24° + 14°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Image presentation	
Resolution	640 × 480 pixels (VGA)
Surface brightness (cd/m ²)	400
Screen size	4 in.
Viewing angle	80°
Color depth (bits)	24
Aspect ratio	4:3
Auto-rotation	Yes
Touchscreen	Optically bonded PCAP
Display technology	IPS
Cover glass material	Dragontrail®
Programmable buttons	1
Viewfinder	No
Image adjustment	<ul style="list-style-type: none"> • Automatic • Automatic maximum • Automatic minimum • Manual

Image presentation modes	
Infrared image	Yes
Visual image	Yes
Thermal fusion	No
MSX	Yes
Picture in Picture	Resizable and movable
Gallery	Yes

Measurement		
Camera temperature range	Object temperature range	Accuracy — for ambient temperature +15 to +35°C (+59 to +95°F)
-20 to +120°C (-4 to +248°F)	-20 to +0°C (-4 to +32°F)	±2°C (±3.6°F)
	0 to +100°C (+32 to +212°F)	±2°C (±3.6°F)
	+100 to +120°C (+212 to +248°F)	±2%
0 to +650°C (+32 to +1202°F)	0 to +100°C (+32 to +212°F)	±2°C (±3.6°F)
	+100 to + 650°C (+212 to +1202°F)	±2%
Optional +300 to +1000°C (+572 to +1832°F)	+300 to +1000°C (+572 to +1832°F)	±2%

Measurement analysis	
Spotmeter	1 in live mode
Area	1 in live mode
Automatic hot/cold detection	Auto-maximum/minimum markers within area
Measurement presets	<ul style="list-style-type: none"> • No measurements • Center spot • Hot spot • Cold spot • User preset 1 • User preset 2



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Measurement analysis	
Difference temperature	Yes
Reference temperature	Yes
Emissivity correction	Yes: variable from 0.01 to 1.0 or selected from materials list
Measurement corrections	Yes
External optics/windows correction	Yes
Screening	0.5°C (0.9°F) accuracy @ 37°C (98.6°F) with reference

Alarm	
Color alarm (isotherm)	<ul style="list-style-type: none"> Above Below Interval Condensation (moisture/humidity/dewpoint) Insulation
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function

Set-up	
Color palettes	<ul style="list-style-type: none"> Iron Gray Rainbow Arctic Lava Rainbow HC
Setup commands	Local adaptation of units, language, date and time formats
Languages	21

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Storage media	Removable memory; SD card (8 GB)
Time lapse (periodic image storage)	No
Remote control operation	<ul style="list-style-type: none"> Using FLIR Tools (using USB cable) FLIR Tools Mobile (over Wi-Fi)
Image file format	Standard JPEG, measurement data included. Infrared-only mode

Image annotations	
Voice	60 seconds built-in microphone and speaker (and via Bluetooth) on still images and video
Text	Text from predefined list or soft keyboard on touchscreen
Visual image annotation	Yes
Image sketch	Yes: on infrared images only
Sketch	From touchscreen
METERLINK	Wireless connection (Bluetooth) to: FLIR meters with METERLINK
Compass	Yes
Laser distance meter information	Yes



FLIR E75 24° + 14°

P/N: 78504-0101

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Image annotations	
Area measurement information	No
GPS	Yes: location data automatically added to every still image and the first frame in video from built-in GPS

Video recording in camera	
Radiometric infrared-video recording	RTRR (.csq)
Non-radiometric infrared-video recording	H.264 to memory card
Visual video recording	H.264 to memory card

Video streaming	
Radiometric infrared-video streaming (compressed)	Yes: over UVC or RTSP (Wi-Fi)
Non-radiometric video streaming (compressed: IR, MSX, visual, Picture in Picture)	<ul style="list-style-type: none"> • H.264 (AVC) over RTSP (Wi-Fi) • MPEG4 over RTSP (Wi-Fi) • MJPEG over UVC and RTSP (Wi-Fi)
Visual video streaming	Yes

Digital camera	
Resolution	5 MP with LED light
Focus	Fixed
Field of view	53° × 41°
Video lamp	Built-in LED light

Laser pointer	
Laser alignment	Position is automatically displayed on the infrared image
Laser distance meter	Activated by a dedicated button
Laser	Class 2, 0.05–40 m (1.6–131 ft.) ±1% of measured distance

Data communication interfaces	
Interfaces	USB 2.0, Bluetooth, Wi-Fi, DisplayPort
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (<i>ad hoc</i>) or infrastructure (network)
Audio	Microphone and speaker for voice annotation of images
USB	USB Type-C: data transfer/video/power
USB standard	USB 2.0 High Speed
Video out	DisplayPort
Video connector type	DisplayPort over USB Type-C

Power system	
Battery type	Rechargeable Li-ion battery
Battery voltage	3.6 V
Battery operating time	> 2.5 hours at 25°C (68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or two-bay charger



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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Power system	
Charging time (using two-bay charger)	2.5 hours to 90% capacity with charging status indicated by LEDs
Charging temperature	0°C to +45°C (+32°F to +113°F), except for the Korean market: +10°C to +45°C (+50°F to +113°F)
External power operation	AC adapter 90–260 V AC, 50/60 Hz, or 12 V from a vehicle (cable with standard plug—optional)
Power management	Automatic shut-down and sleep mode

Environmental data	
Operating temperature range	–15 to +50°C (5–122°F)
Storage temperature range	–40 to +70°C (–40 to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 hours/95% relative humidity 25–40°C (77–104°F)/two cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (immunity)• EN 61000-6-3 (emission)• FCC 47 CFR Part 15 Class B (emission)
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.249• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25g (IEC 60068-2-27)
Vibration	2g (IEC 60068-2-6)
Drop	Designed for 2 m (6.6 ft.)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight (including battery)	1 kg (2.2 lb.)
Size (L × W × H)	278.4 × 116.1 × 113.1 mm (11.0 × 4.6 × 4.4 in.)
Battery weight	140 g (4.9 oz.)
Battery size (L × W × H)	150 × 46 × 55 mm (5.9 × 1.8 × 2.2 in.)
Tripod mounting	UNC ¼"-20
Housing material	PCABS with TPE, magnesium
Color	Black

Warranty and service	
Warranty	http://www.flir.com/warranty/

Shipping information	
Packaging, type	Cardboard box

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Customer support

<http://support.flir.com>

Shipping information	
Packaging, contents	<ul style="list-style-type: none"> • Extra lens, 14° • Battery (2 ea) • Battery charger • Hard transport case • Infrared camera with lens • Lens cap, front • Lens cap, front and rear (only for extra lenses) • Accessory Box I: <ul style="list-style-type: none"> • SD card (8 GB) • USB 2.0 A to USB Type-C cable, 1.0 m • USB Type-C to HDMI adapter, standard specification UH311 • USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m • Power supply for battery charger • Power supply, 15 W/3 A • Printed documentation • Accessory box II: <ul style="list-style-type: none"> • Hand strap • Lanyard strap, camera • Wrist strap • Lens cap strap • Front protection • Carabiner hook • Accessory box III: <ul style="list-style-type: none"> • Hand strap bracket, right • Hand strap bracket, left • Torx T10 wrench • Front protection fastener • Screws
Packaging, weight	6.2 kg (13.7 lb.)
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)
EAN-13	4743254002739
UPC-12	845188013981
Country of origin	Estonia

Supplies and accessories:

- T197771ACC; Bluetooth Headset
- T199425ACC; Battery charger
- T911689ACC; Pouch
- T911706ACC; Car adapter 12 V
- T199588; Lens 14° + case
- T199590; Lens 42° + case
- T199589; Lens 24° + case
- T911705ACC; USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m
- T911632ACC; USB Type-C to HDMI adapter, standard specification UH311
- T911631ACC; USB 2.0 A to USB Type-C cable, 0.9 m
- T911630ACC; Power supply for camera, 15 W/3 A
- T199346ACC; Hard transport case
- T911633ACC; Power supply for battery charger
- T199330ACC; Battery
- T199557ACC; Accessory Box II
- T199559; High temperature option, +300 to +1000°C
- T198583; FLIR Tools+ (download card incl. license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)

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Website

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Customer support

<http://support.flir.com>



Imaging and optical data	
Infrared resolution	320 × 240 pixels
UltraMax (super-resolution)	In FLIR Tools
NETD	<ul style="list-style-type: none"> • <30 mK, 42° @ +30°C (+86°F) • <40 mK, 24° @ +30°C (+86°F) • <50 mK, 14° @ +30°C (+86°F)
Field of view	<ul style="list-style-type: none"> • 42° × 32° • 24° × 18° • 14° × 10°
Minimum focus distance	<ul style="list-style-type: none"> • 0.15 m (0.49 ft.), 42° • 0.15 m (0.49 ft.), 24° • 1.0 m (3.28 ft.), 14°
Minimum focus distance with MSX	<ul style="list-style-type: none"> • 0.65 m (2.13 ft.), 42° • 0.5 m (1.64 ft.), 24° • 1.0 m (3.28 ft.), 14°
Focal length	<ul style="list-style-type: none"> • 10 mm (0.39 in.), 42° • 17 mm (0.67 in.), 24° • 29 mm (1.41 in.), 14°
Spatial resolution (IFOV)	<ul style="list-style-type: none"> • 2.41 mrad/pixel, 42° • 1.31 mrad/pixel, 24° • 0.75 mrad/pixel, 14°
Lens identification	Automatic
f number	<ul style="list-style-type: none"> • 1.1, 42° • 1.3, 24° • 1.5, 14°
Image frequency	30 Hz
Focus	<ul style="list-style-type: none"> • Continuous LDM • One-shot LDM • One-shot contrast • Manual
Field of view match	Yes
Digital zoom	1–4x continuous
Detector data	
Focal plane array/spectral range	Uncooled microbolometer/7.5–14 μm
Detector pitch	17 μm
Image presentation	
Resolution	640 × 480 pixels (VGA)



FLIR E75 24° + 14° & 42°

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Website

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Customer support

<http://support.flir.com>

Image presentation	
Surface brightness (cd/m ²)	400
Screen size	4 in.
Viewing angle	80°
Color depth (bits)	24
Aspect ratio	4:3
Auto-rotation	Yes
Touchscreen	Optically bonded PCAP
Display technology	IPS
Cover glass material	Dragontrail®
Programmable buttons	1
Viewfinder	No
Image adjustment	<ul style="list-style-type: none"> • Automatic • Automatic maximum • Automatic minimum • Manual

Image presentation modes	
Infrared image	Yes
Visual image	Yes
Thermal fusion	No
MSX	Yes
Picture in Picture	Resizable and movable
Gallery	Yes

Measurement		
Camera temperature range	Object temperature range	Accuracy — for ambient temperature +15 to +35°C (+59 to +95°F)
-20 to +120°C (-4 to +248°F)	-20 to +0°C (-4 to +32°F)	±2°C (±3.6°F)
	0 to +100°C (+32 to +212°F)	±2°C (±3.6°F)
	+100 to +120°C (+212 to +248°F)	±2%
0 to +650°C (+32 to +1202°F)	0 to +100°C (+32 to +212°F)	±2°C (±3.6°F)
	+100 to +650°C (+212 to +1202°F)	±2%
Optional +300 to +1000°C (+572 to +1832°F)	+300 to +1000°C (+572 to +1832°F)	±2%

Measurement analysis	
Spotmeter	1 in live mode
Area	1 in live mode
Automatic hot/cold detection	Auto-maximum/minimum markers within area
Measurement presets	<ul style="list-style-type: none"> • No measurements • Center spot • Hot spot • Cold spot • User preset 1 • User preset 2
Difference temperature	Yes



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Measurement analysis	
Reference temperature	Yes
Emissivity correction	Yes: variable from 0.01 to 1.0 or selected from materials list
Measurement corrections	Yes
External optics/windows correction	Yes
Screening	0.5°C (0.9°F) accuracy @ 37°C (98.6°F) with reference

Alarm	
Color alarm (isotherm)	<ul style="list-style-type: none"> Above Below Interval Condensation (moisture/humidity/dewpoint) Insulation
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function

Set-up	
Color palettes	<ul style="list-style-type: none"> Iron Gray Rainbow Arctic Lava Rainbow HC
Setup commands	Local adaptation of units, language, date and time formats
Languages	21

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Storage media	Removable memory; SD card (8 GB)
Time lapse (periodic image storage)	No
Remote control operation	<ul style="list-style-type: none"> Using FLIR Tools (using USB cable) FLIR Tools Mobile (over Wi-Fi)
Image file format	Standard JPEG, measurement data included. Infrared-only mode

Image annotations	
Voice	60 seconds built-in microphone and speaker (and via Bluetooth) on still images and video
Text	Text from predefined list or soft keyboard on touchscreen
Visual image annotation	Yes
Image sketch	Yes: on infrared images only
Sketch	From touchscreen
METERLINK	Wireless connection (Bluetooth) to: FLIR meters with METERLINK
Compass	Yes
Laser distance meter information	Yes
Area measurement information	No



FLIR E75 24° + 14° & 42°

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Website

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Customer support

<http://support.flir.com>

Image annotations	
GPS	Yes: location data automatically added to every still image and the first frame in video from built-in GPS

Video recording in camera	
Radiometric infrared-video recording	RTRR (.csq)
Non-radiometric infrared-video recording	H.264 to memory card
Visual video recording	H.264 to memory card

Video streaming	
Radiometric infrared-video streaming (compressed)	Yes: over UVC or RTSP (Wi-Fi)
Non-radiometric video streaming (compressed: IR, MSX, visual, Picture in Picture)	<ul style="list-style-type: none">• H.264 (AVC) over RTSP (Wi-Fi)• MPEG4 over RTSP (Wi-Fi)• MJPEG over UVC and RTSP (Wi-Fi)
Visual video streaming	Yes

Digital camera	
Resolution	5 MP with LED light
Focus	Fixed
Field of view	53° × 41°
Video lamp	Built-in LED light

Laser pointer	
Laser alignment	Position is automatically displayed on the infrared image
Laser distance meter	Activated by a dedicated button
Laser	Class 2, 0.05–40 m (1.6–131 ft.) ±1% of measured distance

Data communication interfaces	
Interfaces	USB 2.0, Bluetooth, Wi-Fi, DisplayPort
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (<i>ad hoc</i>) or infrastructure (network)
Audio	Microphone and speaker for voice annotation of images
USB	USB Type-C: data transfer/video/power
USB standard	USB 2.0 High Speed
Video out	DisplayPort
Video connector type	DisplayPort over USB Type-C

Power system	
Battery type	Rechargeable Li-ion battery
Battery voltage	3.6 V
Battery operating time	> 2.5 hours at 25°C (68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or two-bay charger
Charging time (using two-bay charger)	2.5 hours to 90% capacity with charging status indicated by LEDs



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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Power system	
Charging temperature	0°C to +45°C (+32°F to +113°F), except for the Korean market: +10°C to +45°C (+50°F to +113°F)
External power operation	AC adapter 90–260 V AC, 50/60 Hz, or 12 V from a vehicle (cable with standard plug—optional)
Power management	Automatic shut-down and sleep mode

Environmental data	
Operating temperature range	–15 to +50°C (5–122°F)
Storage temperature range	–40 to +70°C (–40 to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 hours/95% relative humidity 25–40°C (77–104°F)/two cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (immunity)• EN 61000-6-3 (emission)• FCC 47 CFR Part 15 Class B (emission)
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.249• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25g (IEC 60068-2-27)
Vibration	2g (IEC 60068-2-6)
Drop	Designed for 2 m (6.6 ft.)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight (including battery)	1 kg (2.2 lb.)
Size (L × W × H)	278.4 × 116.1 × 113.1 mm (11.0 × 4.6 × 4.4 in.)
Battery weight	140 g (4.9 oz.)
Battery size (L × W × H)	150 × 46 × 55 mm (5.9 × 1.8 × 2.2 in.)
Tripod mounting	UNC ¼"-20
Housing material	PCABS with TPE, magnesium
Color	Black

Warranty and service	
Warranty	http://www.flir.com/warranty/

Shipping information	
Packaging, type	Cardboard box

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Website

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Customer support

<http://support.flir.com>

Shipping information	
Packaging, contents	<ul style="list-style-type: none"> • Extra lens, 14° • Extra lens, 42° • Battery (2 ea) • Battery charger • Hard transport case • Infrared camera with lens • Lens cap, front • Lens cap, front and rear (only for extra lenses) • Accessory Box I: <ul style="list-style-type: none"> • SD card (8 GB) • USB 2.0 A to USB Type-C cable, 1.0 m • USB Type-C to HDMI adapter, standard specification UH311 • USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m • Power supply for battery charger • Power supply, 15 W/3 A • Printed documentation • Accessory box II: <ul style="list-style-type: none"> • Hand strap • Lanyard strap, camera • Wrist strap • Lens cap strap • Front protection • Carabiner hook • Accessory box III: <ul style="list-style-type: none"> • Hand strap bracket, right • Hand strap bracket, left • Torx T10 wrench • Front protection fastener • Screws
Packaging, weight	
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)
EAN-13	4743254002753
UPC-12	845188014001
Country of origin	Estonia

Supplies and accessories:

- T197771ACC; Bluetooth Headset
- T199425ACC; Battery charger
- T911689ACC; Pouch
- T911706ACC; Car adapter 12 V
- T199588; Lens 14° + case
- T199590; Lens 42° + case
- T199589; Lens 24° + case
- T911705ACC; USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m
- T911632ACC; USB Type-C to HDMI adapter, standard specification UH311
- T911631ACC; USB 2.0 A to USB Type-C cable, 0.9 m
- T911630ACC; Power supply for camera, 15 W/3 A
- T199346ACC; Hard transport case
- T911633ACC; Power supply for battery charger
- T199330ACC; Battery
- T199557ACC; Accessory Box II
- T199559; High temperature option, +300 to +1000°C
- T198583; FLIR Tools+ (download card incl. license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Imaging and optical data	
Infrared resolution	320 × 240 pixels
UltraMax (super-resolution)	In FLIR Tools
NETD	<ul style="list-style-type: none"> • <30 mK, 42° @ +30°C (+86°F) • <40 mK, 24° @ +30°C (+86°F) • <50 mK, 14° @ +30°C (+86°F)
Field of view	<ul style="list-style-type: none"> • 42° × 32° • 24° × 18° • 14° × 10°
Minimum focus distance	<ul style="list-style-type: none"> • 0.15 m (0.49 ft.), 42° • 0.15 m (0.49 ft.), 24° • 1.0 m (3.28 ft.), 14°
Minimum focus distance with MSX	<ul style="list-style-type: none"> • 0.65 m (2.13 ft.), 42° • 0.5 m (1.64 ft.), 24° • 1.0 m (3.28 ft.), 14°
Focal length	<ul style="list-style-type: none"> • 10 mm (0.39 in.), 42° • 17 mm (0.67 in.), 24° • 29 mm (1.41 in.), 14°
Spatial resolution (IFOV)	<ul style="list-style-type: none"> • 2.41 mrad/pixel, 42° • 1.31 mrad/pixel, 24° • 0.75 mrad/pixel, 14°
Additional lenses	<ul style="list-style-type: none"> • 14°
Lens identification	Automatic
f number	<ul style="list-style-type: none"> • 1.1, 42° • 1.3, 24° • 1.5, 14°
Image frequency	30 Hz
Focus	<ul style="list-style-type: none"> • Continuous LDM • One-shot LDM • One-shot contrast • Manual
Field of view match	Yes
Digital zoom	1–4× continuous
Detector data	
Focal plane array/spectral range	Uncooled microbolometer/7.5–14 μm
Detector pitch	17 μm



FLIR E75 24° + 42°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Image presentation	
Resolution	640 × 480 pixels (VGA)
Surface brightness (cd/m ²)	400
Screen size	4 in.
Viewing angle	80°
Color depth (bits)	24
Aspect ratio	4:3
Auto-rotation	Yes
Touchscreen	Optically bonded PCAP
Display technology	IPS
Cover glass material	Dragontrail®
Programmable buttons	1
Viewfinder	No
Image adjustment	<ul style="list-style-type: none"> • Automatic • Automatic maximum • Automatic minimum • Manual

Image presentation modes	
Infrared image	Yes
Visual image	Yes
Thermal fusion	No
MSX	Yes
Picture in Picture	Resizable and movable
Gallery	Yes

Measurement		
Camera temperature range	Object temperature range	Accuracy — for ambient temperature +15 to +35°C (+59 to +95°F)
-20 to +120°C (-4 to +248°F)	-20 to +0°C (-4 to +32°F)	±2°C (±3.6°F)
	0 to +100°C (+32 to +212°F)	±2°C (±3.6°F)
	+100 to +120°C (+212 to +248°F)	±2%
0 to +650°C (+32 to +1202°F)	0 to +100°C (+32 to +212°F)	±2°C (±3.6°F)
	+100 to + 650°C (+212 to +1202°F)	±2%
Optional +300 to +1000°C (+572 to +1832°F)	+300 to +1000°C (+572 to +1832°F)	±2%

Measurement analysis	
Spotmeter	1 in live mode
Area	1 in live mode
Automatic hot/cold detection	Auto-maximum/minimum markers within area
Measurement presets	<ul style="list-style-type: none"> • No measurements • Center spot • Hot spot • Cold spot • User preset 1 • User preset 2



FLIR E75 24° + 42°

P/N: 78505-0101

Revision

48021

Last modified

2018-03-08 11:18 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Measurement analysis	
Difference temperature	Yes
Reference temperature	Yes
Emissivity correction	Yes: variable from 0.01 to 1.0 or selected from materials list
Measurement corrections	Yes
External optics/windows correction	Yes
Screening	0.5°C (0.9°F) accuracy @ 37°C (98.6°F) with reference

Alarm	
Color alarm (isotherm)	<ul style="list-style-type: none"> Above Below Interval Condensation (moisture/humidity/dewpoint) Insulation
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function

Set-up	
Color palettes	<ul style="list-style-type: none"> Iron Gray Rainbow Arctic Lava Rainbow HC
Setup commands	Local adaptation of units, language, date and time formats
Languages	21

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Storage media	Removable memory; SD card (8 GB)
Time lapse (periodic image storage)	No
Remote control operation	<ul style="list-style-type: none"> Using FLIR Tools (using USB cable) FLIR Tools Mobile (over Wi-Fi)
Image file format	Standard JPEG, measurement data included. Infrared-only mode

Image annotations	
Voice	60 seconds built-in microphone and speaker (and via Bluetooth) on still images and video
Text	Text from predefined list or soft keyboard on touchscreen
Visual image annotation	Yes
Image sketch	Yes: on infrared images only
Sketch	From touchscreen
METERLINK	Wireless connection (Bluetooth) to: FLIR meters with METERLINK
Compass	Yes
Laser distance meter information	Yes



FLIR E75 24° + 42°

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Image annotations	
Area measurement information	No
GPS	Yes: location data automatically added to every still image and the first frame in video from built-in GPS

Video recording in camera	
Radiometric infrared-video recording	RTRR (.csq)
Non-radiometric infrared-video recording	H.264 to memory card
Visual video recording	H.264 to memory card

Video streaming	
Radiometric infrared-video streaming (compressed)	Yes: over UVC or RTSP (Wi-Fi)
Non-radiometric video streaming (compressed: IR, MSX, visual, Picture in Picture)	<ul style="list-style-type: none">• H.264 (AVC) over RTSP (Wi-Fi)• MPEG4 over RTSP (Wi-Fi)• MJPEG over UVC and RTSP (Wi-Fi)
Visual video streaming	Yes

Digital camera	
Resolution	5 MP with LED light
Focus	Fixed
Field of view	53° × 41°
Video lamp	Built-in LED light

Laser pointer	
Laser alignment	Position is automatically displayed on the infrared image
Laser distance meter	Activated by a dedicated button
Laser	Class 2, 0.05–40 m (1.6–131 ft.) ±1% of measured distance

Data communication interfaces	
Interfaces	USB 2.0, Bluetooth, Wi-Fi, DisplayPort
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (<i>ad hoc</i>) or infrastructure (network)
Audio	Microphone and speaker for voice annotation of images
USB	USB Type-C: data transfer/video/power
USB standard	USB 2.0 High Speed
Video out	DisplayPort
Video connector type	DisplayPort over USB Type-C

Power system	
Battery type	Rechargeable Li-ion battery
Battery voltage	3.6 V
Battery operating time	> 2.5 hours at 25°C (68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or two-bay charger



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Website

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Customer support

<http://support.flir.com>

Power system	
Charging time (using two-bay charger)	2.5 hours to 90% capacity with charging status indicated by LEDs
Charging temperature	0°C to +45°C (+32°F to +113°F), except for the Korean market: +10°C to +45°C (+50°F to +113°F)
External power operation	AC adapter 90–260 V AC, 50/60 Hz, or 12 V from a vehicle (cable with standard plug—optional)
Power management	Automatic shut-down and sleep mode

Environmental data	
Operating temperature range	–15 to +50°C (5–122°F)
Storage temperature range	–40 to +70°C (–40 to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 hours/95% relative humidity 25–40°C (77–104°F)/two cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (immunity)• EN 61000-6-3 (emission)• FCC 47 CFR Part 15 Class B (emission)
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.249• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25g (IEC 60068-2-27)
Vibration	2g (IEC 60068-2-6)
Drop	Designed for 2 m (6.6 ft.)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight (including battery)	1 kg (2.2 lb.)
Size (L × W × H)	278.4 × 116.1 × 113.1 mm (11.0 × 4.6 × 4.4 in.)
Battery weight	140 g (4.9 oz.)
Battery size (L × W × H)	150 × 46 × 55 mm (5.9 × 1.8 × 2.2 in.)
Tripod mounting	UNC ¼"-20
Housing material	PCABS with TPE, magnesium
Color	Black

Warranty and service	
Warranty	http://www.flir.com/warranty/

Shipping information	
Packaging, type	Cardboard box



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Website

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Customer support

<http://support.flir.com>

Shipping information	
Packaging, contents	<ul style="list-style-type: none">• Extra lens, 42°• Battery (2 ea)• Battery charger• Hard transport case• Infrared camera with lens• Lens cap, front• Lens cap, front and rear (only for extra lenses)• Accessory Box I:<ul style="list-style-type: none">• SD card (8 GB)• USB 2.0 A to USB Type-C cable, 1.0 m• USB Type-C to HDMI adapter, standard specification UH311• USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m• Power supply for battery charger• Power supply, 15 W/3 A• Printed documentation• Accessory box II:<ul style="list-style-type: none">• Hand strap• Lanyard strap, camera• Wrist strap• Lens cap strap• Front protection• Carabiner hook• Accessory box III:<ul style="list-style-type: none">• Hand strap bracket, right• Hand strap bracket, left• Torx T10 wrench• Front protection fastener• Screws
Packaging, weight	6.2 kg (13.7 lb.)
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)
EAN-13	4743254002746
UPC-12	845188013998
Country of origin	Estonia

Supplies & accessories:

- T197771ACC; Bluetooth Headset
- T199425ACC; Battery charger
- T911689ACC; Pouch
- T911706ACC; Car adapter 12 V
- T199588; Lens 14° + case
- T199590; Lens 42° + case
- T199589; Lens 24° + case
- T911705ACC; USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m
- T911632ACC; USB Type-C to HDMI adapter, standard specification UH311
- T911631ACC; USB 2.0 A to USB Type-C cable, 0.9 m
- T911630ACC; Power supply for camera, 15 W/3 A
- T199346ACC; Hard transport case
- T911633ACC; Power supply for battery charger
- T199330ACC; Battery
- T199557ACC; Accessory Box II
- T199559; High temperature option, +300 to +1000°C
- T198583; FLIR Tools+ (download card incl. license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)

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Website

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Customer support

<http://support.flir.com>



Imaging and optical data	
Infrared resolution	320 × 240 pixels
UltraMax (super-resolution)	In FLIR Tools
NETD	<ul style="list-style-type: none"> <30 mK, 42° @ +30°C (+86°F) <40 mK, 24° @ +30°C (+86°F) <50 mK, 14° @ +30°C (+86°F)
Field of view	<ul style="list-style-type: none"> 42° × 32° 24° × 18° 14° × 10°
Minimum focus distance	<ul style="list-style-type: none"> 0.15 m (0.49 ft.), 42° 0.15 m (0.49 ft.), 24° 1.0 m (3.28 ft.), 14°
Minimum focus distance with MSX	<ul style="list-style-type: none"> 0.65 m (2.13 ft.), 42° 0.5 m (1.64 ft.), 24° 1.0 m (3.28 ft.), 14°
Focal length	<ul style="list-style-type: none"> 10 mm (0.39 in.), 42° 17 mm (0.67 in.), 24° 29 mm (1.41 in.), 14°
Spatial resolution (IFOV)	<ul style="list-style-type: none"> 2.41 mrad/pixel, 42° 1.31 mrad/pixel, 24° 0.75 mrad/pixel, 14°
Additional lenses	<ul style="list-style-type: none"> 24° 14°
Lens identification	Automatic
f number	<ul style="list-style-type: none"> 1.1, 42° 1.3, 24° 1.5, 14°
Image frequency	30 Hz
Focus	<ul style="list-style-type: none"> Continuous LDM One-shot LDM One-shot contrast Manual
Field of view match	Yes
Digital zoom	1–4x continuous
Detector data	
Focal plane array/spectral range	Uncooled microbolometer/7.5–14 μm
Detector pitch	17 μm



FLIR E75 42°

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Website

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Customer support

<http://support.flir.com>

Image presentation	
Resolution	640 × 480 pixels (VGA)
Surface brightness (cd/m ²)	400
Screen size	4 in.
Viewing angle	80°
Color depth (bits)	24
Aspect ratio	4:3
Auto-rotation	Yes
Touchscreen	Optically bonded PCAP
Display technology	IPS
Cover glass material	Dragontrail®
Programmable buttons	1
Viewfinder	No
Image adjustment	<ul style="list-style-type: none"> • Automatic • Automatic maximum • Automatic minimum • Manual

Image presentation modes	
Infrared image	Yes
Visual image	Yes
Thermal fusion	No
MSX	Yes
Picture in Picture	Resizable and movable
Gallery	Yes

Measurement		
Camera temperature range	Object temperature range	Accuracy — for ambient temperature +15 to +35°C (+59 to +95°F)
-20 to +120°C (-4 to +248°F)	-20 to +0°C (-4 to +32°F)	±2°C (±3.6°F)
	0 to +100°C (+32 to +212°F)	±2°C (±3.6°F)
	+100 to +120°C (+212 to +248°F)	±2%
0 to +650°C (+32 to +1202°F)	0 to +100°C (+32 to +212°F)	±2°C (±3.6°F)
	+100 to + 650°C (+212 to +1202°F)	±2%
Optional +300 to +1000°C (+572 to +1832°F)	+300 to +1000°C (+572 to +1832°F)	±2%

Measurement analysis	
Spotmeter	1 in live mode
Area	1 in live mode
Automatic hot/cold detection	Auto-maximum/minimum markers within area
Measurement presets	<ul style="list-style-type: none"> • No measurements • Center spot • Hot spot • Cold spot • User preset 1 • User preset 2



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Measurement analysis	
Difference temperature	Yes
Reference temperature	Yes
Emissivity correction	Yes: variable from 0.01 to 1.0 or selected from materials list
Measurement corrections	Yes
External optics/windows correction	Yes
Screening	0.5°C (0.9°F) accuracy @ 37°C (98.6°F) with reference

Alarm	
Color alarm (isotherm)	<ul style="list-style-type: none"> Above Below Interval Condensation (moisture/humidity/dewpoint) Insulation
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function

Set-up	
Color palettes	<ul style="list-style-type: none"> Iron Gray Rainbow Arctic Lava Rainbow HC
Setup commands	Local adaptation of units, language, date and time formats
Languages	21

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Storage media	Removable memory; SD card (8 GB)
Time lapse (periodic image storage)	No
Remote control operation	<ul style="list-style-type: none"> Using FLIR Tools (using USB cable) FLIR Tools Mobile (over Wi-Fi)
Image file format	Standard JPEG, measurement data included. Infrared-only mode

Image annotations	
Voice	60 seconds built-in microphone and speaker (and via Bluetooth) on still images and video
Text	Text from predefined list or soft keyboard on touchscreen
Visual image annotation	Yes
Image sketch	Yes: on infrared images only
Sketch	From touchscreen
METERLINK	Wireless connection (Bluetooth) to: FLIR meters with METERLINK
Compass	Yes
Laser distance meter information	Yes



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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Image annotations	
Area measurement information	No
GPS	Yes: location data automatically added to every still image and the first frame in video from built-in GPS

Video recording in camera	
Radiometric infrared-video recording	RTRR (.csq)
Non-radiometric infrared-video recording	H.264 to memory card
Visual video recording	H.264 to memory card

Video streaming	
Radiometric infrared-video streaming (compressed)	Yes: over UVC or RTSP (Wi-Fi)
Non-radiometric video streaming (compressed: IR, MSX, visual, Picture in Picture)	<ul style="list-style-type: none">• H.264 (AVC) over RTSP (Wi-Fi)• MPEG4 over RTSP (Wi-Fi)• MJPEG over UVC and RTSP (Wi-Fi)
Visual video streaming	Yes

Digital camera	
Resolution	5 MP with LED light
Focus	Fixed
Field of view	53° × 41°
Video lamp	Built-in LED light

Laser pointer	
Laser alignment	Position is automatically displayed on the infrared image
Laser distance meter	Activated by a dedicated button
Laser	Class 2, 0.05–40 m (1.6–131 ft.) ±1% of measured distance

Data communication interfaces	
Interfaces	USB 2.0, Bluetooth, Wi-Fi, DisplayPort
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (<i>ad hoc</i>) or infrastructure (network)
Audio	Microphone and speaker for voice annotation of images
USB	USB Type-C: data transfer/video/power
USB standard	USB 2.0 High Speed
Video out	DisplayPort
Video connector type	DisplayPort over USB Type-C

Power system	
Battery type	Rechargeable Li-ion battery
Battery voltage	3.6 V
Battery operating time	> 2.5 hours at 25°C (68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or two-bay charger



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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Power system	
Charging time (using two-bay charger)	2.5 hours to 90% capacity with charging status indicated by LEDs
Charging temperature	0°C to +45°C (+32°F to +113°F), except for the Korean market: +10°C to +45°C (+50°F to +113°F)
External power operation	AC adapter 90–260 V AC, 50/60 Hz, or 12 V from a vehicle (cable with standard plug—optional)
Power management	Automatic shut-down and sleep mode

Environmental data	
Operating temperature range	–15 to +50°C (5–122°F)
Storage temperature range	–40 to +70°C (–40 to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 hours/95% relative humidity 25–40°C (77–104°F)/two cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (immunity)• EN 61000-6-3 (emission)• FCC 47 CFR Part 15 Class B (emission)
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.249• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25g (IEC 60068-2-27)
Vibration	2g (IEC 60068-2-6)
Drop	Designed for 2 m (6.6 ft.)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight (including battery)	1 kg (2.2 lb.)
Size (L × W × H)	278.4 × 116.1 × 113.1 mm (11.0 × 4.6 × 4.4 in.)
Battery weight	140 g (4.9 oz.)
Battery size (L × W × H)	150 × 46 × 55 mm (5.9 × 1.8 × 2.2 in.)
Tripod mounting	UNC ¼"-20
Housing material	PCABS with TPE, magnesium
Color	Black

Warranty and service	
Warranty	http://www.flir.com/warranty/

Shipping information	
Packaging, type	Cardboard box



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Shipping information	
Packaging, contents	<ul style="list-style-type: none">• Battery (2 ea)• Battery charger• Hard transport case• Infrared camera with lens• Lens cap, front• Lens cap, front and rear (only for extra lenses)• Accessory Box I:<ul style="list-style-type: none">• SD card (8 GB)• USB 2.0 A to USB Type-C cable, 1.0 m• USB Type-C to HDMI adapter, standard specification UH311• USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m• Power supply for battery charger• Power supply, 15 W/3 A• Printed documentation• Accessory box II:<ul style="list-style-type: none">• Hand strap• Lanyard strap, camera• Wrist strap• Lens cap strap• Front protection• Carabiner hook• Accessory box III:<ul style="list-style-type: none">• Hand strap bracket, right• Hand strap bracket, left• Torx T10 wrench• Front protection fastener• Screws
Packaging, weight	5.8 kg (12.8 lb.)
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)
EAN-13	4743254002661
UPC-12	845188013899
Country of origin	Estonia

Supplies & accessories:

- T197771ACC; Bluetooth Headset
- T199425ACC; Battery charger
- T911689ACC; Pouch
- T911706ACC; Car adapter 12 V
- T199588; Lens 14° + case
- T199590; Lens 42° + case
- T199589; Lens 24° + case
- T911705ACC; USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m
- T911632ACC; USB Type-C to HDMI adapter, standard specification UH311
- T911631ACC; USB 2.0 A to USB Type-C cable, 0.9 m
- T911630ACC; Power supply for camera, 15 W/3 A
- T199346ACC; Hard transport case
- T911633ACC; Power supply for battery charger
- T199330ACC; Battery
- T199557ACC; Accessory Box II
- T199559; High temperature option, +300 to +1000°C
- T198583; FLIR Tools+ (download card incl. license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Imaging and optical data	
Infrared resolution	320 × 240 pixels
UltraMax (super-resolution)	In FLIR Tools
NETD	<ul style="list-style-type: none"> <30 mK, 42° @ +30°C (+86°F) <40 mK, 24° @ +30°C (+86°F) <50 mK, 14° @ +30°C (+86°F)
Field of view	<ul style="list-style-type: none"> 42° × 32° 24° × 18° 14° × 10°
Minimum focus distance	<ul style="list-style-type: none"> 0.15 m (0.49 ft.), 42° 0.15 m (0.49 ft.), 24° 1.0 m (3.28 ft.), 14°
Minimum focus distance with MSX	<ul style="list-style-type: none"> 0.65 m (2.13 ft.), 42° 0.5 m (1.64 ft.), 24° 1.0 m (3.28 ft.), 14°
Focal length	<ul style="list-style-type: none"> 10 mm (0.39 in.), 42° 17 mm (0.67 in.), 24° 29 mm (1.41 in.), 14°
Spatial resolution (IFOV)	<ul style="list-style-type: none"> 2.41 mrad/pixel, 42° 1.31 mrad/pixel, 24° 0.75 mrad/pixel, 14°
Additional lenses	<ul style="list-style-type: none"> 24°
Lens identification	Automatic
f number	<ul style="list-style-type: none"> 1.1, 42° 1.3, 24° 1.5, 14°
Image frequency	30 Hz
Focus	<ul style="list-style-type: none"> Continuous LDM One-shot LDM One-shot contrast Manual
Field of view match	Yes
Digital zoom	1–4× continuous
Detector data	
Focal plane array/spectral range	Uncooled microbolometer/7.5–14 μm
Detector pitch	17 μm



FLIR E75 42° + 14°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Image presentation	
Resolution	640 × 480 pixels (VGA)
Surface brightness (cd/m ²)	400
Screen size	4 in.
Viewing angle	80°
Color depth (bits)	24
Aspect ratio	4:3
Auto-rotation	Yes
Touchscreen	Optically bonded PCAP
Display technology	IPS
Cover glass material	Dragontrail®
Programmable buttons	1
Viewfinder	No
Image adjustment	<ul style="list-style-type: none"> • Automatic • Automatic maximum • Automatic minimum • Manual

Image presentation modes	
Infrared image	Yes
Visual image	Yes
Thermal fusion	No
MSX	Yes
Picture in Picture	Resizable and movable
Gallery	Yes

Measurement		
Camera temperature range	Object temperature range	Accuracy — for ambient temperature +15 to +35°C (+59 to +95°F)
-20 to +120°C (-4 to +248°F)	-20 to +0°C (-4 to +32°F)	±2°C (±3.6°F)
	0 to +100°C (+32 to +212°F)	±2°C (±3.6°F)
	+100 to +120°C (+212 to +248°F)	±2%
0 to +650°C (+32 to +1202°F)	0 to +100°C (+32 to +212°F)	±2°C (±3.6°F)
	+100 to + 650°C (+212 to +1202°F)	±2%
Optional +300 to +1000°C (+572 to +1832°F)	+300 to +1000°C (+572 to +1832°F)	±2%

Measurement analysis	
Spotmeter	1 in live mode
Area	1 in live mode
Automatic hot/cold detection	Auto-maximum/minimum markers within area
Measurement presets	<ul style="list-style-type: none"> • No measurements • Center spot • Hot spot • Cold spot • User preset 1 • User preset 2

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Measurement analysis	
Difference temperature	Yes
Reference temperature	Yes
Emissivity correction	Yes: variable from 0.01 to 1.0 or selected from materials list
Measurement corrections	Yes
External optics/windows correction	Yes
Screening	0.5°C (0.9°F) accuracy @ 37°C (98.6°F) with reference

Alarm	
Color alarm (isotherm)	<ul style="list-style-type: none"> • Above • Below • Interval • Condensation (moisture/humidity/dewpoint) • Insulation
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function

Set-up	
Color palettes	<ul style="list-style-type: none"> • Iron • Gray • Rainbow • Arctic • Lava • Rainbow HC
Setup commands	Local adaptation of units, language, date and time formats
Languages	21

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Storage media	Removable memory; SD card (8 GB)
Time lapse (periodic image storage)	No
Remote control operation	<ul style="list-style-type: none"> • Using FLIR Tools (using USB cable) • FLIR Tools Mobile (over Wi-Fi)
Image file format	Standard JPEG, measurement data included. Infrared-only mode

Image annotations	
Voice	60 seconds built-in microphone and speaker (and via Bluetooth) on still images and video
Text	Text from predefined list or soft keyboard on touchscreen
Visual image annotation	Yes
Image sketch	Yes: on infrared images only
Sketch	From touchscreen
METERLINK	Wireless connection (Bluetooth) to: FLIR meters with METERLINK
Compass	Yes
Laser distance meter information	Yes



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Image annotations	
Area measurement information	No
GPS	Yes: location data automatically added to every still image and the first frame in video from built-in GPS

Video recording in camera	
Radiometric infrared-video recording	RTRR (.csq)
Non-radiometric infrared-video recording	H.264 to memory card
Visual video recording	H.264 to memory card

Video streaming	
Radiometric infrared-video streaming (compressed)	Yes: over UVC or RTSP (Wi-Fi)
Non-radiometric video streaming (compressed: IR, MSX, visual, Picture in Picture)	<ul style="list-style-type: none"> • H.264 (AVC) over RTSP (Wi-Fi) • MPEG4 over RTSP (Wi-Fi) • MJPEG over UVC and RTSP (Wi-Fi)
Visual video streaming	Yes

Digital camera	
Resolution	5 MP with LED light
Focus	Fixed
Field of view	53° × 41°
Video lamp	Built-in LED light

Laser pointer	
Laser alignment	Position is automatically displayed on the infrared image
Laser distance meter	Activated by a dedicated button
Laser	Class 2, 0.05–40 m (1.6–131 ft.) ±1% of measured distance

Data communication interfaces	
Interfaces	USB 2.0, Bluetooth, Wi-Fi, DisplayPort
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (<i>ad hoc</i>) or infrastructure (network)
Audio	Microphone and speaker for voice annotation of images
USB	USB Type-C: data transfer/video/power
USB standard	USB 2.0 High Speed
Video out	DisplayPort
Video connector type	DisplayPort over USB Type-C

Power system	
Battery type	Rechargeable Li-ion battery
Battery voltage	3.6 V
Battery operating time	> 2.5 hours at 25°C (68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or two-bay charger



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Website

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Customer support

<http://support.flir.com>

Power system	
Charging time (using two-bay charger)	2.5 hours to 90% capacity with charging status indicated by LEDs
Charging temperature	0°C to +45°C (+32°F to +113°F), except for the Korean market: +10°C to +45°C (+50°F to +113°F)
External power operation	AC adapter 90–260 V AC, 50/60 Hz, or 12 V from a vehicle (cable with standard plug—optional)
Power management	Automatic shut-down and sleep mode

Environmental data	
Operating temperature range	–15 to +50°C (5–122°F)
Storage temperature range	–40 to +70°C (–40 to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 hours/95% relative humidity 25–40°C (77–104°F)/two cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (immunity)• EN 61000-6-3 (emission)• FCC 47 CFR Part 15 Class B (emission)
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.249• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25g (IEC 60068-2-27)
Vibration	2g (IEC 60068-2-6)
Drop	Designed for 2 m (6.6 ft.)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight (including battery)	1 kg (2.2 lb.)
Size (L × W × H)	278.4 × 116.1 × 113.1 mm (11.0 × 4.6 × 4.4 in.)
Battery weight	140 g (4.9 oz.)
Battery size (L × W × H)	150 × 46 × 55 mm (5.9 × 1.8 × 2.2 in.)
Tripod mounting	UNC ¼"-20
Housing material	PCABS with TPE, magnesium
Color	Black

Warranty and service	
Warranty	http://www.flir.com/warranty/

Shipping information	
Packaging, type	Cardboard box



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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Shipping information	
Packaging, contents	<ul style="list-style-type: none">• Extra lens, 14°• Battery (2 ea)• Battery charger• Hard transport case• Infrared camera with lens• Lens cap, front• Lens cap, front and rear (only for extra lenses)• Accessory Box I:<ul style="list-style-type: none">• SD card (8 GB)• USB 2.0 A to USB Type-C cable, 1.0 m• USB Type-C to HDMI adapter, standard specification UH311• USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m• Power supply for battery charger• Power supply, 15 W/3 A• Printed documentation• Accessory box II:<ul style="list-style-type: none">• Hand strap• Lanyard strap, camera• Wrist strap• Lens cap strap• Front protection• Carabiner hook• Accessory box III:<ul style="list-style-type: none">• Hand strap bracket, right• Hand strap bracket, left• Torx T10 wrench• Front protection fastener• Screws
Packaging, weight	
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)
EAN-13	4743254003323
UPC-12	845188014735
Country of origin	Estonia

Supplies & accessories:

- T197771ACC; Bluetooth Headset
- T911689ACC; Pouch
- T911705ACC; USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m
- T911632ACC; USB Type-C to HDMI adapter, standard specification UH311
- T911631ACC; USB 2.0 A to USB Type-C cable, 0.9 m
- T911630ACC; Power supply for camera, 15 W/3 A
- T911633ACC; Power supply for battery charger
- T199559; High temperature option, +300 to +1000°C
- T198583; FLIR Tools+ (download card incl. license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Imaging and optical data	
Infrared resolution	384 × 288 pixels
UltraMax (super-resolution)	In FLIR Tools
NETD	<ul style="list-style-type: none"> <30 mK, 42° @ +30°C (+86°F) <40 mK, 24° @ +30°C (+86°F) <50 mK, 14° @ +30°C (+86°F)
Field of view	<ul style="list-style-type: none"> 42° × 32° 24° × 18° 14° × 10°
Minimum focus distance	<ul style="list-style-type: none"> 0.15 m (0.49 ft.), 42° 0.15 m (0.49 ft.), 24° 1.0 m (3.28 ft.), 14°
Minimum focus distance with MSX	<ul style="list-style-type: none"> 0.65 m (2.13 ft.), 42° 0.5 m (1.64 ft.), 24° 1.0 m (3.28 ft.), 14°
Focal length	<ul style="list-style-type: none"> 10 mm (0.39 in.), 42° 17 mm (0.67 in.), 24° 29 mm (1.41 in.), 14°
Spatial resolution (IFOV)	<ul style="list-style-type: none"> 2.00 mrad/pixel, 42° 1.09 mrad/pixel, 24° 0.63 mrad/pixel, 14°
Additional lenses	<ul style="list-style-type: none"> 42° 24°
Lens identification	Automatic
f number	<ul style="list-style-type: none"> 1.1, 42° 1.3, 24° 1.5, 14°
Image frequency	30 Hz
Focus	<ul style="list-style-type: none"> Continuous LDM One-shot LDM One-shot contrast Manual
Field of view match	Yes
Digital zoom	1–4x continuous
Detector data	
Focal plane array/spectral range	Uncooled microbolometer/7.5–14 μm
Detector pitch	17 μm



FLIR E85 14°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Image presentation	
Resolution	640 × 480 pixels (VGA)
Surface brightness (cd/m ²)	400
Screen size	4 in.
Viewing angle	80°
Color depth (bits)	24
Aspect ratio	4:3
Auto-rotation	Yes
Touchscreen	Optically bonded PCAP
Display technology	IPS
Cover glass material	Dragontrail®
Programmable buttons	1
Viewfinder	No
Image adjustment	<ul style="list-style-type: none"> • Automatic • Automatic maximum • Automatic minimum • Manual

Image presentation modes	
Infrared image	Yes
Visual image	Yes
Thermal fusion	No
MSX	Yes
Picture in Picture	Resizable and movable
Gallery	Yes

Measurement		
Camera temperature range	Object temperature range	Accuracy — for ambient temperature +15 to +35°C (+59 to +95°F)
-20 to +120°C (-4 to +248°F)	-20 to +0°C (-4 to +32°F)	±2°C (±3.6°F)
	0 to +100°C (+32 to +212°F)	±2°C (±3.6°F)
	+100 to +120°C (+212 to +248°F)	±2%
0 to +650°C (+32 to +1202°F)	0 to +100°C (+32 to +212°F)	±2°C (±3.6°F)
	+100 to + 650°C (+212 to +1202°F)	±2%
+300 to +1200°C (+572 to +2192°F)	+300 to +1200°C (+572 to +2192°F)	±2%

Measurement analysis	
Spotmeter	3 in live mode
Area	3 in live mode
Automatic hot/cold detection	Auto-maximum/minimum markers within area
Measurement presets	<ul style="list-style-type: none"> • No measurements • Center spot • Hot spot • Cold spot • User preset 1 • User preset 2



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Measurement analysis	
Difference temperature	Yes
Reference temperature	Yes
Emissivity correction	Yes: variable from 0.01 to 1.0 or selected from materials list
Measurement corrections	Yes
External optics/windows correction	Yes
Screening	0.5°C (0.9°F) accuracy @ 37°C (98.6°F) with reference

Alarm	
Color alarm (isotherm)	<ul style="list-style-type: none"> • Above • Below • Interval • Condensation (moisture/humidity/dewpoint) • Insulation
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function

Set-up	
Color palettes	<ul style="list-style-type: none"> • Iron • Gray • Rainbow • Arctic • Lava • Rainbow HC
Setup commands	Local adaptation of units, language, date and time formats
Languages	21

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Storage media	Removable memory; SD card (8 GB)
Time lapse (periodic image storage)	No
Remote control operation	<ul style="list-style-type: none"> • Using FLIR Tools (using USB cable) • FLIR Tools Mobile (over Wi-Fi)
Image file format	Standard JPEG, measurement data included. Infrared-only mode

Image annotations	
Voice	60 seconds built-in microphone and speaker (and via Bluetooth) on still images and video
Text	Text from predefined list or soft keyboard on touchscreen
Visual image annotation	Yes
Image sketch	Yes: on infrared images only
Sketch	From touchscreen
METERLINK	Wireless connection (Bluetooth) to: FLIR meters with METERLINK
Compass	Yes
Laser distance meter information	Yes



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Image annotations	
Area measurement information	Yes
GPS	Yes: location data automatically added to every still image and the first frame in video from built-in GPS

Video recording in camera	
Radiometric infrared-video recording	RTRR (.csq)
Non-radiometric infrared-video recording	H.264 to memory card
Visual video recording	H.264 to memory card

Video streaming	
Radiometric infrared-video streaming (compressed)	Yes: over UVC or RTSP (Wi-Fi)
Non-radiometric video streaming (compressed: IR, MSX, visual, Picture in Picture)	<ul style="list-style-type: none">• H.264 (AVC) over RTSP (Wi-Fi)• MPEG4 over RTSP (Wi-Fi)• MJPEG over UVC and RTSP (Wi-Fi)
Visual video streaming	Yes

Digital camera	
Resolution	5 MP with LED light
Focus	Fixed
Field of view	53° × 41°
Video lamp	Built-in LED light

Laser pointer	
Laser alignment	Position is automatically displayed on the infrared image
Laser distance meter	Activated by a dedicated button
Laser	Class 2, 0.05–40 m (1.6–131 ft.) ±1% of measured distance

Data communication interfaces	
Interfaces	USB 2.0, Bluetooth, Wi-Fi, DisplayPort
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (<i>ad hoc</i>) or infrastructure (network)
Audio	Microphone and speaker for voice annotation of images
USB	USB Type-C: data transfer/video/power
USB standard	USB 2.0 High Speed
Video out	DisplayPort
Video connector type	DisplayPort over USB Type-C

Power system	
Battery type	Rechargeable Li-ion battery
Battery voltage	3.6 V
Battery operating time	> 2.5 hours at 25°C (68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or two-bay charger



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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Power system	
Charging time (using two-bay charger)	2.5 hours to 90% capacity with charging status indicated by LEDs
Charging temperature	0°C to +45°C (+32°F to +113°F), except for the Korean market: +10°C to +45°C (+50°F to +113°F)
External power operation	AC adapter 90–260 V AC, 50/60 Hz, or 12 V from a vehicle (cable with standard plug—optional)
Power management	Automatic shut-down and sleep mode

Environmental data	
Operating temperature range	–15 to +50°C (5–122°F)
Storage temperature range	–40 to +70°C (–40 to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 hours/95% relative humidity 25–40°C (77–104°F)/two cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (immunity)• EN 61000-6-3 (emission)• FCC 47 CFR Part 15 Class B (emission)
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.249• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25g (IEC 60068-2-27)
Vibration	2g (IEC 60068-2-6)
Drop	Designed for 2 m (6.6 ft.)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight (including battery)	1 kg (2.2 lb.)
Size (L × W × H)	278.4 × 116.1 × 113.1 mm (11.0 × 4.6 × 4.4 in.)
Battery weight	140 g (4.9 oz.)
Battery size (L × W × H)	150 × 46 × 55 mm (5.9 × 1.8 × 2.2 in.)
Tripod mounting	UNC ¼"-20
Housing material	PCABS with TPE, magnesium
Color	Black

Warranty and service	
Warranty	http://www.flir.com/warranty/

Shipping information	
Packaging, type	Cardboard box

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Shipping information	
Packaging, contents	<ul style="list-style-type: none"> • Battery (2 ea) • Battery charger • Hard transport case • Infrared camera with lens • Lens cap, front • Lens cap, front and rear (only for extra lenses) • Accessory Box I: <ul style="list-style-type: none"> • SD card (8 GB) • USB 2.0 A to USB Type-C cable, 1.0 m • USB Type-C to HDMI adapter, standard specification UH311 • USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m • Power supply for battery charger • Power supply, 15 W/3 A • Printed documentation • Accessory box II: <ul style="list-style-type: none"> • Hand strap • Lanyard strap, camera • Wrist strap • Lens cap strap • Front protection • Carabiner hook • Accessory box III: <ul style="list-style-type: none"> • Hand strap bracket, right • Hand strap bracket, left • Torx T10 wrench • Front protection fastener • Screws
Packaging, weight	5.8 kg (12.8 lb.)
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)
EAN-13	4743254003828
UPC-12	845188016777
Country of origin	Estonia

Supplies & accessories:

- T197771ACC; Bluetooth Headset
- T199425ACC; Battery charger
- T911689ACC; Pouch
- T911706ACC; Car adapter 12 V
- T199588; Lens 14° + case
- T199590; Lens 42° + case
- T199589; Lens 24° + case
- T911705ACC; USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m
- T911632ACC; USB Type-C to HDMI adapter, standard specification UH311
- T911631ACC; USB 2.0 A to USB Type-C cable, 0.9 m
- T911630ACC; Power supply for camera, 15 W/3 A
- T199346ACC; Hard transport case
- T911633ACC; Power supply for battery charger
- T199330ACC; Battery
- T199557ACC; Accessory Box II
- T198583; FLIR Tools+ (download card incl. license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Imaging and optical data	
Infrared resolution	384 × 288 pixels
UltraMax (super-resolution)	In FLIR Tools
NETD	<ul style="list-style-type: none"> • <30 mK, 42° @ +30°C (+86°F) • <40 mK, 24° @ +30°C (+86°F) • <50 mK, 14° @ +30°C (+86°F)
Field of view	<ul style="list-style-type: none"> • 42° × 32° • 24° × 18° • 14° × 10°
Minimum focus distance	<ul style="list-style-type: none"> • 0.15 m (0.49 ft.), 42° • 0.15 m (0.49 ft.), 24° • 1.0 m (3.28 ft.), 14°
Minimum focus distance with MSX	<ul style="list-style-type: none"> • 0.65 m (2.13 ft.), 42° • 0.5 m (1.64 ft.), 24° • 1.0 m (3.28 ft.), 14°
Focal length	<ul style="list-style-type: none"> • 10 mm (0.39 in.), 42° • 17 mm (0.67 in.), 24° • 29 mm (1.41 in.), 14°
Spatial resolution (IFOV)	<ul style="list-style-type: none"> • 2.00 mrad/pixel, 42° • 1.09 mrad/pixel, 24° • 0.63 mrad/pixel, 14°
Additional lenses	<ul style="list-style-type: none"> • 42° • 14°
Lens identification	Automatic
f number	<ul style="list-style-type: none"> • 1.1, 42° • 1.3, 24° • 1.5, 14°
Image frequency	30 Hz
Focus	<ul style="list-style-type: none"> • Continuous LDM • One-shot LDM • One-shot contrast • Manual
Field of view match	Yes
Digital zoom	1–4x continuous
Detector data	
Focal plane array/spectral range	Uncooled microbolometer/7.5–14 μm
Detector pitch	17 μm



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Website

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Customer support

<http://support.flir.com>

Image presentation	
Resolution	640 × 480 pixels (VGA)
Surface brightness (cd/m ²)	400
Screen size	4 in.
Viewing angle	80°
Color depth (bits)	24
Aspect ratio	4:3
Auto-rotation	Yes
Touchscreen	Optically bonded PCAP
Display technology	IPS
Cover glass material	Dragontrail®
Programmable buttons	1
Viewfinder	No
Image adjustment	<ul style="list-style-type: none"> • Automatic • Automatic maximum • Automatic minimum • Manual

Image presentation modes	
Infrared image	Yes
Visual image	Yes
Thermal fusion	No
MSX	Yes
Picture in Picture	Resizable and movable
Gallery	Yes

Measurement		
Camera temperature range	Object temperature range	Accuracy — for ambient temperature +15 to +35°C (+59 to +95°F)
-20 to +120°C (-4 to +248°F)	-20 to +0°C (-4 to +32°F)	±2°C (±3.6°F)
	0 to +100°C (+32 to +212°F)	±2°C (±3.6°F)
	+100 to +120°C (+212 to +248°F)	±2%
0 to +650°C (+32 to +1202°F)	0 to +100°C (+32 to +212°F)	±2°C (±3.6°F)
	+100 to +650°C (+212 to +1202°F)	±2%
+300 to +1200°C (+572 to +2192°F)	+300 to +1200°C (+572 to +2192°F)	±2%

Measurement analysis	
Spotmeter	3 in live mode
Area	3 in live mode
Automatic hot/cold detection	Auto-maximum/minimum markers within area
Measurement presets	<ul style="list-style-type: none"> • No measurements • Center spot • Hot spot • Cold spot • User preset 1 • User preset 2

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Measurement analysis	
Difference temperature	Yes
Reference temperature	Yes
Emissivity correction	Yes: variable from 0.01 to 1.0 or selected from materials list
Measurement corrections	Yes
External optics/windows correction	Yes
Screening	0.5°C (0.9°F) accuracy @ 37°C (98.6°F) with reference

Alarm	
Color alarm (isotherm)	<ul style="list-style-type: none"> Above Below Interval Condensation (moisture/humidity/dewpoint) Insulation
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function

Set-up	
Color palettes	<ul style="list-style-type: none"> Iron Gray Rainbow Arctic Lava Rainbow HC
Setup commands	Local adaptation of units, language, date and time formats
Languages	21

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Storage media	Removable memory; SD card (8 GB)
Time lapse (periodic image storage)	No
Remote control operation	<ul style="list-style-type: none"> Using FLIR Tools (using USB cable) FLIR Tools Mobile (over Wi-Fi)
Image file format	Standard JPEG, measurement data included. Infrared-only mode

Image annotations	
Voice	60 seconds built-in microphone and speaker (and via Bluetooth) on still images and video
Text	Text from predefined list or soft keyboard on touchscreen
Visual image annotation	Yes
Image sketch	Yes: on infrared images only
Sketch	From touchscreen
METERLINK	Wireless connection (Bluetooth) to: FLIR meters with METERLINK
Compass	Yes
Laser distance meter information	Yes



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Image annotations	
Area measurement information	Yes
GPS	Yes: location data automatically added to every still image and the first frame in video from built-in GPS

Video recording in camera	
Radiometric infrared-video recording	RTRR (.csq)
Non-radiometric infrared-video recording	H.264 to memory card
Visual video recording	H.264 to memory card

Video streaming	
Radiometric infrared-video streaming (compressed)	Yes: over UVC or RTSP (Wi-Fi)
Non-radiometric video streaming (compressed: IR, MSX, visual, Picture in Picture)	<ul style="list-style-type: none">• H.264 (AVC) over RTSP (Wi-Fi)• MPEG4 over RTSP (Wi-Fi)• MJPEG over UVC and RTSP (Wi-Fi)
Visual video streaming	Yes

Digital camera	
Resolution	5 MP with LED light
Focus	Fixed
Field of view	53° × 41°
Video lamp	Built-in LED light

Laser pointer	
Laser alignment	Position is automatically displayed on the infrared image
Laser distance meter	Activated by a dedicated button
Laser	Class 2, 0.05–40 m (1.6–131 ft.) ±1% of measured distance

Data communication interfaces	
Interfaces	USB 2.0, Bluetooth, Wi-Fi, DisplayPort
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (<i>ad hoc</i>) or infrastructure (network)
Audio	Microphone and speaker for voice annotation of images
USB	USB Type-C: data transfer/video/power
USB standard	USB 2.0 High Speed
Video out	DisplayPort
Video connector type	DisplayPort over USB Type-C

Power system	
Battery type	Rechargeable Li-ion battery
Battery voltage	3.6 V
Battery operating time	> 2.5 hours at 25°C (68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or two-bay charger



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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Power system	
Charging time (using two-bay charger)	2.5 hours to 90% capacity with charging status indicated by LEDs
Charging temperature	0°C to +45°C (+32°F to +113°F), except for the Korean market: +10°C to +45°C (+50°F to +113°F)
External power operation	AC adapter 90–260 V AC, 50/60 Hz, or 12 V from a vehicle (cable with standard plug—optional)
Power management	Automatic shut-down and sleep mode

Environmental data	
Operating temperature range	–15 to +50°C (5–122°F)
Storage temperature range	–40 to +70°C (–40 to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 hours/95% relative humidity 25–40°C (77–104°F)/two cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (immunity)• EN 61000-6-3 (emission)• FCC 47 CFR Part 15 Class B (emission)
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.249• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25g (IEC 60068-2-27)
Vibration	2g (IEC 60068-2-6)
Drop	Designed for 2 m (6.6 ft.)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight (including battery)	1 kg (2.2 lb.)
Size (L × W × H)	278.4 × 116.1 × 113.1 mm (11.0 × 4.6 × 4.4 in.)
Battery weight	140 g (4.9 oz.)
Battery size (L × W × H)	150 × 46 × 55 mm (5.9 × 1.8 × 2.2 in.)
Tripod mounting	UNC ¼"-20
Housing material	PCABS with TPE, magnesium
Color	Black

Warranty and service	
Warranty	http://www.flir.com/warranty/

Shipping information	
Packaging, type	Cardboard box

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<http://support.flir.com>

Shipping information	
Packaging, contents	<ul style="list-style-type: none"> • Battery (2 ea) • Battery charger • Hard transport case • Infrared camera with lens • Lens cap, front • Lens cap, front and rear (only for extra lenses) • Accessory Box I: <ul style="list-style-type: none"> • SD card (8 GB) • USB 2.0 A to USB Type-C cable, 1.0 m • USB Type-C to HDMI adapter, standard specification UH311 • USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m • Power supply for battery charger • Power supply, 15 W/3 A • Printed documentation • Accessory box II: <ul style="list-style-type: none"> • Hand strap • Lanyard strap, camera • Wrist strap • Lens cap strap • Front protection • Carabiner hook • Accessory box III: <ul style="list-style-type: none"> • Hand strap bracket, right • Hand strap bracket, left • Torx T10 wrench • Front protection fastener • Screws
Packaging, weight	5.8 kg (12.8 lb.)
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)
EAN-13	4743254002678
UPC-12	845188013905
Country of origin	Estonia

Supplies & accessories:

- T197771ACC; Bluetooth Headset
- T199425ACC; Battery charger
- T911689ACC; Pouch
- T911706ACC; Car adapter 12 V
- T199588; Lens 14° + case
- T199590; Lens 42° + case
- T199589; Lens 24° + case
- T911705ACC; USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m
- T911632ACC; USB Type-C to HDMI adapter, standard specification UH311
- T911631ACC; USB 2.0 A to USB Type-C cable, 0.9 m
- T911630ACC; Power supply for camera, 15 W/3 A
- T199346ACC; Hard transport case
- T911633ACC; Power supply for battery charger
- T199330ACC; Battery
- T199557ACC; Accessory Box II
- T198583; FLIR Tools+ (download card incl. license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Imaging and optical data	
Infrared resolution	384 × 288 pixels
UltraMax (super-resolution)	In FLIR Tools
NETD	<ul style="list-style-type: none"> • <30 mK, 42° @ +30°C (+86°F) • <40 mK, 24° @ +30°C (+86°F) • <50 mK, 14° @ +30°C (+86°F)
Field of view	<ul style="list-style-type: none"> • 42° × 32° • 24° × 18° • 14° × 10°
Minimum focus distance	<ul style="list-style-type: none"> • 0.15 m (0.49 ft.), 42° • 0.15 m (0.49 ft.), 24° • 1.0 m (3.28 ft.), 14°
Minimum focus distance with MSX	<ul style="list-style-type: none"> • 0.65 m (2.13 ft.), 42° • 0.5 m (1.64 ft.), 24° • 1.0 m (3.28 ft.), 14°
Focal length	<ul style="list-style-type: none"> • 10 mm (0.39 in.), 42° • 17 mm (0.67 in.), 24° • 29 mm (1.41 in.), 14°
Spatial resolution (IFOV)	<ul style="list-style-type: none"> • 2.00 mrad/pixel, 42° • 1.09 mrad/pixel, 24° • 0.63 mrad/pixel, 14°
Additional lenses	<ul style="list-style-type: none"> • 42°
Lens identification	Automatic
f number	<ul style="list-style-type: none"> • 1.1, 42° • 1.3, 24° • 1.5, 14°
Image frequency	30 Hz
Focus	<ul style="list-style-type: none"> • Continuous LDM • One-shot LDM • One-shot contrast • Manual
Field of view match	Yes
Digital zoom	1–4× continuous
Detector data	
Focal plane array/spectral range	Uncooled microbolometer/7.5–14 μm
Detector pitch	17 μm



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Website

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Customer support

<http://support.flir.com>

Image presentation	
Resolution	640 × 480 pixels (VGA)
Surface brightness (cd/m ²)	400
Screen size	4 in.
Viewing angle	80°
Color depth (bits)	24
Aspect ratio	4:3
Auto-rotation	Yes
Touchscreen	Optically bonded PCAP
Display technology	IPS
Cover glass material	Dragontrail®
Programmable buttons	1
Viewfinder	No
Image adjustment	<ul style="list-style-type: none"> • Automatic • Automatic maximum • Automatic minimum • Manual

Image presentation modes	
Infrared image	Yes
Visual image	Yes
Thermal fusion	No
MSX	Yes
Picture in Picture	Resizable and movable
Gallery	Yes

Measurement		
Camera temperature range	Object temperature range	Accuracy — for ambient temperature +15 to +35°C (+59 to +95°F)
-20 to +120°C (-4 to +248°F)	-20 to +0°C (-4 to +32°F)	±2°C (±3.6°F)
	0 to +100°C (+32 to +212°F)	±2°C (±3.6°F)
	+100 to +120°C (+212 to +248°F)	±2%
0 to +650°C (+32 to +1202°F)	0 to +100°C (+32 to +212°F)	±2°C (±3.6°F)
	+100 to +650°C (+212 to +1202°F)	±2%
+300 to +1200°C (+572 to +2192°F)	+300 to +1200°C (+572 to +2192°F)	±2%

Measurement analysis	
Spotmeter	3 in live mode
Area	3 in live mode
Automatic hot/cold detection	Auto-maximum/minimum markers within area
Measurement presets	<ul style="list-style-type: none"> • No measurements • Center spot • Hot spot • Cold spot • User preset 1 • User preset 2



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Measurement analysis	
Difference temperature	Yes
Reference temperature	Yes
Emissivity correction	Yes: variable from 0.01 to 1.0 or selected from materials list
Measurement corrections	Yes
External optics/windows correction	Yes
Screening	0.5°C (0.9°F) accuracy @ 37°C (98.6°F) with reference

Alarm	
Color alarm (isotherm)	<ul style="list-style-type: none">• Above• Below• Interval• Condensation (moisture/humidity/dewpoint)• Insulation
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function

Set-up	
Color palettes	<ul style="list-style-type: none">• Iron• Gray• Rainbow• Arctic• Lava• Rainbow HC
Setup commands	Local adaptation of units, language, date and time formats
Languages	21

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Storage media	Removable memory; SD card (8 GB)
Time lapse (periodic image storage)	No
Remote control operation	<ul style="list-style-type: none">• Using FLIR Tools (using USB cable)• FLIR Tools Mobile (over Wi-Fi)
Image file format	Standard JPEG, measurement data included. Infrared-only mode

Image annotations	
Voice	60 seconds built-in microphone and speaker (and via Bluetooth) on still images and video
Text	Text from predefined list or soft keyboard on touchscreen
Visual image annotation	Yes
Image sketch	Yes: on infrared images only
Sketch	From touchscreen
METERLINK	Wireless connection (Bluetooth) to: FLIR meters with METERLINK
Compass	Yes
Laser distance meter information	Yes



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Website

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Customer support

<http://support.flir.com>

Image annotations	
Area measurement information	Yes
GPS	Yes: location data automatically added to every still image and the first frame in video from built-in GPS

Video recording in camera	
Radiometric infrared-video recording	RTRR (.csq)
Non-radiometric infrared-video recording	H.264 to memory card
Visual video recording	H.264 to memory card

Video streaming	
Radiometric infrared-video streaming (compressed)	Yes: over UVC or RTSP (Wi-Fi)
Non-radiometric video streaming (compressed: IR, MSX, visual, Picture in Picture)	<ul style="list-style-type: none"> • H.264 (AVC) over RTSP (Wi-Fi) • MPEG4 over RTSP (Wi-Fi) • MJPEG over UVC and RTSP (Wi-Fi)
Visual video streaming	Yes

Digital camera	
Resolution	5 MP with LED light
Focus	Fixed
Field of view	53° × 41°
Video lamp	Built-in LED light

Laser pointer	
Laser alignment	Position is automatically displayed on the infrared image
Laser distance meter	Activated by a dedicated button
Laser	Class 2, 0.05–40 m (1.6–131 ft.) ±1% of measured distance

Data communication interfaces	
Interfaces	USB 2.0, Bluetooth, Wi-Fi, DisplayPort
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (<i>ad hoc</i>) or infrastructure (network)
Audio	Microphone and speaker for voice annotation of images
USB	USB Type-C: data transfer/video/power
USB standard	USB 2.0 High Speed
Video out	DisplayPort
Video connector type	DisplayPort over USB Type-C

Power system	
Battery type	Rechargeable Li-ion battery
Battery voltage	3.6 V
Battery operating time	> 2.5 hours at 25°C (68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or two-bay charger



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Website

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Customer support

<http://support.flir.com>

Power system	
Charging time (using two-bay charger)	2.5 hours to 90% capacity with charging status indicated by LEDs
Charging temperature	0°C to +45°C (+32°F to +113°F), except for the Korean market: +10°C to +45°C (+50°F to +113°F)
External power operation	AC adapter 90–260 V AC, 50/60 Hz, or 12 V from a vehicle (cable with standard plug—optional)
Power management	Automatic shut-down and sleep mode

Environmental data	
Operating temperature range	–15 to +50°C (5–122°F)
Storage temperature range	–40 to +70°C (–40 to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 hours/95% relative humidity 25–40°C (77–104°F)/two cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (immunity)• EN 61000-6-3 (emission)• FCC 47 CFR Part 15 Class B (emission)
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.249• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25g (IEC 60068-2-27)
Vibration	2g (IEC 60068-2-6)
Drop	Designed for 2 m (6.6 ft.)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight (including battery)	1 kg (2.2 lb.)
Size (L × W × H)	278.4 × 116.1 × 113.1 mm (11.0 × 4.6 × 4.4 in.)
Battery weight	140 g (4.9 oz.)
Battery size (L × W × H)	150 × 46 × 55 mm (5.9 × 1.8 × 2.2 in.)
Tripod mounting	UNC ¼"-20
Housing material	PCABS with TPE, magnesium
Color	Black

Warranty and service	
Warranty	http://www.flir.com/warranty/

Shipping information	
Packaging, type	Cardboard box

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Customer support

<http://support.flir.com>

Shipping information	
Packaging, contents	<ul style="list-style-type: none"> • Extra lens, 14° • Battery (2 ea) • Battery charger • Hard transport case • Infrared camera with lens • Lens cap, front • Lens cap, front and rear (only for extra lenses) • Accessory Box I: <ul style="list-style-type: none"> • SD card (8 GB) • USB 2.0 A to USB Type-C cable, 1.0 m • USB Type-C to HDMI adapter, standard specification UH311 • USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m • Power supply for battery charger • Power supply, 15 W/3 A • Printed documentation • Accessory box II: <ul style="list-style-type: none"> • Hand strap • Lanyard strap, camera • Wrist strap • Lens cap strap • Front protection • Carabiner hook • Accessory box III: <ul style="list-style-type: none"> • Hand strap bracket, right • Hand strap bracket, left • Torx T10 wrench • Front protection fastener • Screws
Packaging, weight	6.2 kg (13.7 lb.)
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)
EAN-13	4743254002777
UPC-12	845188014025
Country of origin	Estonia

Supplies and accessories:

- T197771ACC; Bluetooth Headset
- T199425ACC; Battery charger
- T911689ACC; Pouch
- T911706ACC; Car adapter 12 V
- T199588; Lens 14° + case
- T199590; Lens 42° + case
- T199589; Lens 24° + case
- T911705ACC; USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m
- T911632ACC; USB Type-C to HDMI adapter, standard specification UH311
- T911631ACC; USB 2.0 A to USB Type-C cable, 0.9 m
- T911630ACC; Power supply for camera, 15 W/3 A
- T199346ACC; Hard transport case
- T911633ACC; Power supply for battery charger
- T199330ACC; Battery
- T199557ACC; Accessory Box II
- T198583; FLIR Tools+ (download card incl. license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)

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Website

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Customer support

<http://support.flir.com>



Imaging and optical data	
Infrared resolution	384 × 288 pixels
UltraMax (super-resolution)	In FLIR Tools
NETD	<ul style="list-style-type: none"> • <30 mK, 42° @ +30°C (+86°F) • <40 mK, 24° @ +30°C (+86°F) • <50 mK, 14° @ +30°C (+86°F)
Field of view	<ul style="list-style-type: none"> • 42° × 32° • 24° × 18° • 14° × 10°
Minimum focus distance	<ul style="list-style-type: none"> • 0.15 m (0.49 ft.), 42° • 0.15 m (0.49 ft.), 24° • 1.0 m (3.28 ft.), 14°
Minimum focus distance with MSX	<ul style="list-style-type: none"> • 0.65 m (2.13 ft.), 42° • 0.5 m (1.64 ft.), 24° • 1.0 m (3.28 ft.), 14°
Focal length	<ul style="list-style-type: none"> • 10 mm (0.39 in.), 42° • 17 mm (0.67 in.), 24° • 29 mm (1.41 in.), 14°
Spatial resolution (IFOV)	<ul style="list-style-type: none"> • 2.00 mrad/pixel, 42° • 1.09 mrad/pixel, 24° • 0.63 mrad/pixel, 14°
Lens identification	Automatic
f number	<ul style="list-style-type: none"> • 1.1, 42° • 1.3, 24° • 1.5, 14°
Image frequency	30 Hz
Focus	<ul style="list-style-type: none"> • Continuous LDM • One-shot LDM • One-shot contrast • Manual
Field of view match	Yes
Digital zoom	1–4x continuous
Detector data	
Focal plane array/spectral range	Uncooled microbolometer/7.5–14 μm
Detector pitch	17 μm
Image presentation	
Resolution	640 × 480 pixels (VGA)

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Website

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<http://support.flir.com>

Image presentation	
Surface brightness (cd/m ²)	400
Screen size	4 in.
Viewing angle	80°
Color depth (bits)	24
Aspect ratio	4:3
Auto-rotation	Yes
Touchscreen	Optically bonded PCAP
Display technology	IPS
Cover glass material	Dragontrail®
Programmable buttons	1
Viewfinder	No
Image adjustment	<ul style="list-style-type: none"> • Automatic • Automatic maximum • Automatic minimum • Manual

Image presentation modes	
Infrared image	Yes
Visual image	Yes
Thermal fusion	No
MSX	Yes
Picture in Picture	Resizable and movable
Gallery	Yes

Measurement		
Camera temperature range	Object temperature range	Accuracy — for ambient temperature +15 to +35°C (+59 to +95°F)
-20 to +120°C (-4 to +248°F)	-20 to +0°C (-4 to +32°F)	±2°C (±3.6°F)
	0 to +100°C (+32 to +212°F)	±2°C (±3.6°F)
	+100 to +120°C (+212 to +248°F)	±2%
0 to +650°C (+32 to +1202°F)	0 to +100°C (+32 to +212°F)	±2°C (±3.6°F)
	+100 to +650°C (+212 to +1202°F)	±2%
+300 to +1200°C (+572 to +2192°F)	+300 to +1200°C (+572 to +2192°F)	±2%

Measurement analysis	
Spotmeter	3 in live mode
Area	3 in live mode
Automatic hot/cold detection	Auto-maximum/minimum markers within area
Measurement presets	<ul style="list-style-type: none"> • No measurements • Center spot • Hot spot • Cold spot • User preset 1 • User preset 2
Difference temperature	Yes

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Website

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Customer support

<http://support.flir.com>

Measurement analysis	
Reference temperature	Yes
Emissivity correction	Yes: variable from 0.01 to 1.0 or selected from materials list
Measurement corrections	Yes
External optics/windows correction	Yes
Screening	0.5°C (0.9°F) accuracy @ 37°C (98.6°F) with reference

Alarm	
Color alarm (isotherm)	<ul style="list-style-type: none"> Above Below Interval Condensation (moisture/humidity/dewpoint) Insulation
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function

Set-up	
Color palettes	<ul style="list-style-type: none"> Iron Gray Rainbow Arctic Lava Rainbow HC
Setup commands	Local adaptation of units, language, date and time formats
Languages	21

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Storage media	Removable memory; SD card (8 GB)
Time lapse (periodic image storage)	No
Remote control operation	<ul style="list-style-type: none"> Using FLIR Tools (using USB cable) FLIR Tools Mobile (over Wi-Fi)
Image file format	Standard JPEG, measurement data included. Infrared-only mode

Image annotations	
Voice	60 seconds built-in microphone and speaker (and via Bluetooth) on still images and video
Text	Text from predefined list or soft keyboard on touchscreen
Visual image annotation	Yes
Image sketch	Yes: on infrared images only
Sketch	From touchscreen
METERLINK	Wireless connection (Bluetooth) to: FLIR meters with METERLINK
Compass	Yes
Laser distance meter information	Yes
Area measurement information	Yes



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Image annotations	
GPS	Yes: location data automatically added to every still image and the first frame in video from built-in GPS

Video recording in camera	
Radiometric infrared-video recording	RTRR (.csq)
Non-radiometric infrared-video recording	H.264 to memory card
Visual video recording	H.264 to memory card

Video streaming	
Radiometric infrared-video streaming (compressed)	Yes: over UVC or RTSP (Wi-Fi)
Non-radiometric video streaming (compressed: IR, MSX, visual, Picture in Picture)	<ul style="list-style-type: none"> H.264 (AVC) over RTSP (Wi-Fi) MPEG4 over RTSP (Wi-Fi) MJPEG over UVC and RTSP (Wi-Fi)
Visual video streaming	Yes

Digital camera	
Resolution	5 MP with LED light
Focus	Fixed
Field of view	53° × 41°
Video lamp	Built-in LED light

Laser pointer	
Laser alignment	Position is automatically displayed on the infrared image
Laser distance meter	Activated by a dedicated button
Laser	Class 2, 0.05–40 m (1.6–131 ft.) ±1% of measured distance

Data communication interfaces	
Interfaces	USB 2.0, Bluetooth, Wi-Fi, DisplayPort
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (<i>ad hoc</i>) or infrastructure (network)
Audio	Microphone and speaker for voice annotation of images
USB	USB Type-C: data transfer/video/power
USB standard	USB 2.0 High Speed
Video out	DisplayPort
Video connector type	DisplayPort over USB Type-C

Power system	
Battery type	Rechargeable Li-ion battery
Battery voltage	3.6 V
Battery operating time	> 2.5 hours at 25°C (68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or two-bay charger
Charging time (using two-bay charger)	2.5 hours to 90% capacity with charging status indicated by LEDs



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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Power system	
Charging temperature	0°C to +45°C (+32°F to +113°F), except for the Korean market: +10°C to +45°C (+50°F to +113°F)
External power operation	AC adapter 90–260 V AC, 50/60 Hz, or 12 V from a vehicle (cable with standard plug—optional)
Power management	Automatic shut-down and sleep mode

Environmental data	
Operating temperature range	–15 to +50°C (5–122°F)
Storage temperature range	–40 to +70°C (–40 to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 hours/95% relative humidity 25–40°C (77–104°F)/two cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (immunity)• EN 61000-6-3 (emission)• FCC 47 CFR Part 15 Class B (emission)
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.249• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25g (IEC 60068-2-27)
Vibration	2g (IEC 60068-2-6)
Drop	Designed for 2 m (6.6 ft.)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight (including battery)	1 kg (2.2 lb.)
Size (L × W × H)	278.4 × 116.1 × 113.1 mm (11.0 × 4.6 × 4.4 in.)
Battery weight	140 g (4.9 oz.)
Battery size (L × W × H)	150 × 46 × 55 mm (5.9 × 1.8 × 2.2 in.)
Tripod mounting	UNC ¼"-20
Housing material	PCABS with TPE, magnesium
Color	Black

Warranty and service	
Warranty	http://www.flir.com/warranty/

Shipping information	
Packaging, type	Cardboard box



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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Shipping information	
Packaging, contents	<ul style="list-style-type: none"> • Extra lens, 14° • Extra lens, 42° • Battery (2 ea) • Battery charger • Hard transport case • Infrared camera with lens • Lens cap, front • Lens cap, front and rear (only for extra lenses) • Accessory Box I: <ul style="list-style-type: none"> • SD card (8 GB) • USB 2.0 A to USB Type-C cable, 1.0 m • USB Type-C to HDMI adapter, standard specification UH311 • USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m • Power supply for battery charger • Power supply, 15 W/3 A • Printed documentation • Accessory box II: <ul style="list-style-type: none"> • Hand strap • Lanyard strap, camera • Wrist strap • Lens cap strap • Front protection • Carabiner hook • Accessory box III: <ul style="list-style-type: none"> • Hand strap bracket, right • Hand strap bracket, left • Torx T10 wrench • Front protection fastener • Screws
Packaging, weight	6.4 kg (14.1 lb.)
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)
EAN-13	4743254002791
UPC-12	845188014049
Country of origin	Estonia

Supplies and accessories:

- T197771ACC; Bluetooth Headset
- T199425ACC; Battery charger
- T911689ACC; Pouch
- T911706ACC; Car adapter 12 V
- T199588; Lens 14° + case
- T199590; Lens 42° + case
- T199589; Lens 24° + case
- T911705ACC; USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m
- T911632ACC; USB Type-C to HDMI adapter, standard specification UH311
- T911631ACC; USB 2.0 A to USB Type-C cable, 0.9 m
- T911630ACC; Power supply for camera, 15 W/3 A
- T199346ACC; Hard transport case
- T911633ACC; Power supply for battery charger
- T199330ACC; Battery
- T199557ACC; Accessory Box II
- T198583; FLIR Tools+ (download card incl. license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Imaging and optical data	
Infrared resolution	384 × 288 pixels
UltraMax (super-resolution)	In FLIR Tools
NETD	<ul style="list-style-type: none"> <30 mK, 42° @ +30°C (+86°F) <40 mK, 24° @ +30°C (+86°F) <50 mK, 14° @ +30°C (+86°F)
Field of view	<ul style="list-style-type: none"> 42° × 32° 24° × 18° 14° × 10°
Minimum focus distance	<ul style="list-style-type: none"> 0.15 m (0.49 ft.), 42° 0.15 m (0.49 ft.), 24° 1.0 m (3.28 ft.), 14°
Minimum focus distance with MSX	<ul style="list-style-type: none"> 0.65 m (2.13 ft.), 42° 0.5 m (1.64 ft.), 24° 1.0 m (3.28 ft.), 14°
Focal length	<ul style="list-style-type: none"> 10 mm (0.39 in.), 42° 17 mm (0.67 in.), 24° 29 mm (1.41 in.), 14°
Spatial resolution (IFOV)	<ul style="list-style-type: none"> 2.00 mrad/pixel, 42° 1.09 mrad/pixel, 24° 0.63 mrad/pixel, 14°
Additional lenses	<ul style="list-style-type: none"> 14°
Lens identification	Automatic
f number	<ul style="list-style-type: none"> 1.1, 42° 1.3, 24° 1.5, 14°
Image frequency	30 Hz
Focus	<ul style="list-style-type: none"> Continuous LDM One-shot LDM One-shot contrast Manual
Field of view match	Yes
Digital zoom	1–4× continuous
Detector data	
Focal plane array/spectral range	Uncooled microbolometer/7.5–14 μm
Detector pitch	17 μm



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Image presentation	
Resolution	640 × 480 pixels (VGA)
Surface brightness (cd/m ²)	400
Screen size	4 in.
Viewing angle	80°
Color depth (bits)	24
Aspect ratio	4:3
Auto-rotation	Yes
Touchscreen	Optically bonded PCAP
Display technology	IPS
Cover glass material	Dragontrail®
Programmable buttons	1
Viewfinder	No
Image adjustment	<ul style="list-style-type: none"> • Automatic • Automatic maximum • Automatic minimum • Manual

Image presentation modes	
Infrared image	Yes
Visual image	Yes
Thermal fusion	No
MSX	Yes
Picture in Picture	Resizable and movable
Gallery	Yes

Measurement		
Camera temperature range	Object temperature range	Accuracy — for ambient temperature +15 to +35°C (+59 to +95°F)
-20 to +120°C (-4 to +248°F)	-20 to +0°C (-4 to +32°F)	±2°C (±3.6°F)
	0 to +100°C (+32 to +212°F)	±2°C (±3.6°F)
	+100 to +120°C (+212 to +248°F)	±2%
0 to +650°C (+32 to +1202°F)	0 to +100°C (+32 to +212°F)	±2°C (±3.6°F)
	+100 to + 650°C (+212 to +1202°F)	±2%
+300 to +1200°C (+572 to +2192°F)	+300 to +1200°C (+572 to +2192°F)	±2%

Measurement analysis	
Spotmeter	3 in live mode
Area	3 in live mode
Automatic hot/cold detection	Auto-maximum/minimum markers within area
Measurement presets	<ul style="list-style-type: none"> • No measurements • Center spot • Hot spot • Cold spot • User preset 1 • User preset 2



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Website

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Customer support

<http://support.flir.com>

Measurement analysis	
Difference temperature	Yes
Reference temperature	Yes
Emissivity correction	Yes: variable from 0.01 to 1.0 or selected from materials list
Measurement corrections	Yes
External optics/windows correction	Yes
Screening	0.5°C (0.9°F) accuracy @ 37°C (98.6°F) with reference

Alarm	
Color alarm (isotherm)	<ul style="list-style-type: none"> • Above • Below • Interval • Condensation (moisture/humidity/dewpoint) • Insulation
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function

Set-up	
Color palettes	<ul style="list-style-type: none"> • Iron • Gray • Rainbow • Arctic • Lava • Rainbow HC
Setup commands	Local adaptation of units, language, date and time formats
Languages	21

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Storage media	Removable memory; SD card (8 GB)
Time lapse (periodic image storage)	No
Remote control operation	<ul style="list-style-type: none"> • Using FLIR Tools (using USB cable) • FLIR Tools Mobile (over Wi-Fi)
Image file format	Standard JPEG, measurement data included. Infrared-only mode

Image annotations	
Voice	60 seconds built-in microphone and speaker (and via Bluetooth) on still images and video
Text	Text from predefined list or soft keyboard on touchscreen
Visual image annotation	Yes
Image sketch	Yes: on infrared images only
Sketch	From touchscreen
METERLINK	Wireless connection (Bluetooth) to: FLIR meters with METERLINK
Compass	Yes
Laser distance meter information	Yes



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Website

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Customer support

<http://support.flir.com>

Image annotations	
Area measurement information	Yes
GPS	Yes: location data automatically added to every still image and the first frame in video from built-in GPS

Video recording in camera	
Radiometric infrared-video recording	RTRR (.csq)
Non-radiometric infrared-video recording	H.264 to memory card
Visual video recording	H.264 to memory card

Video streaming	
Radiometric infrared-video streaming (compressed)	Yes: over UVC or RTSP (Wi-Fi)
Non-radiometric video streaming (compressed: IR, MSX, visual, Picture in Picture)	<ul style="list-style-type: none"> H.264 (AVC) over RTSP (Wi-Fi) MPEG4 over RTSP (Wi-Fi) MJPEG over UVC and RTSP (Wi-Fi)
Visual video streaming	Yes

Digital camera	
Resolution	5 MP with LED light
Focus	Fixed
Field of view	53° × 41°
Video lamp	Built-in LED light

Laser pointer	
Laser alignment	Position is automatically displayed on the infrared image
Laser distance meter	Activated by a dedicated button
Laser	Class 2, 0.05–40 m (1.6–131 ft.) ±1% of measured distance

Data communication interfaces	
Interfaces	USB 2.0, Bluetooth, Wi-Fi, DisplayPort
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (<i>ad hoc</i>) or infrastructure (network)
Audio	Microphone and speaker for voice annotation of images
USB	USB Type-C: data transfer/video/power
USB standard	USB 2.0 High Speed
Video out	DisplayPort
Video connector type	DisplayPort over USB Type-C

Power system	
Battery type	Rechargeable Li-ion battery
Battery voltage	3.6 V
Battery operating time	> 2.5 hours at 25°C (68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or two-bay charger



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Power system	
Charging time (using two-bay charger)	2.5 hours to 90% capacity with charging status indicated by LEDs
Charging temperature	0°C to +45°C (+32°F to +113°F), except for the Korean market: +10°C to +45°C (+50°F to +113°F)
External power operation	AC adapter 90–260 V AC, 50/60 Hz, or 12 V from a vehicle (cable with standard plug—optional)
Power management	Automatic shut-down and sleep mode

Environmental data	
Operating temperature range	–15 to +50°C (5–122°F)
Storage temperature range	–40 to +70°C (–40 to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 hours/95% relative humidity 25–40°C (77–104°F)/two cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (immunity)• EN 61000-6-3 (emission)• FCC 47 CFR Part 15 Class B (emission)
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.249• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25g (IEC 60068-2-27)
Vibration	2g (IEC 60068-2-6)
Drop	Designed for 2 m (6.6 ft.)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight (including battery)	1 kg (2.2 lb.)
Size (L × W × H)	278.4 × 116.1 × 113.1 mm (11.0 × 4.6 × 4.4 in.)
Battery weight	140 g (4.9 oz.)
Battery size (L × W × H)	150 × 46 × 55 mm (5.9 × 1.8 × 2.2 in.)
Tripod mounting	UNC ¼"-20
Housing material	PCABS with TPE, magnesium
Color	Black

Warranty and service	
Warranty	http://www.flir.com/warranty/

Shipping information	
Packaging, type	Cardboard box



FLIR E85 24° + 42°

P/N: 78505-0201

Revision

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Shipping information	
Packaging, contents	<ul style="list-style-type: none"> • Extra lens, 42° • Battery (2 ea) • Battery charger • Hard transport case • Infrared camera with lens • Lens cap, front • Lens cap, front and rear (only for extra lenses) • Accessory Box I: <ul style="list-style-type: none"> • SD card (8 GB) • USB 2.0 A to USB Type-C cable, 1.0 m • USB Type-C to HDMI adapter, standard specification UH311 • USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m • Power supply for battery charger • Power supply, 15 W/3 A • Printed documentation • Accessory box II: <ul style="list-style-type: none"> • Hand strap • Lanyard strap, camera • Wrist strap • Lens cap strap • Front protection • Carabiner hook • Accessory box III: <ul style="list-style-type: none"> • Hand strap bracket, right • Hand strap bracket, left • Torx T10 wrench • Front protection fastener • Screws
Packaging, weight	6.2 kg (13.7 lb.)
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)
EAN-13	4743254002784
UPC-12	845188014032
Country of origin	Estonia

Supplies & accessories:

- T197771ACC; Bluetooth Headset
- T199425ACC; Battery charger
- T911689ACC; Pouch
- T911706ACC; Car adapter 12 V
- T199588; Lens 14° + case
- T199590; Lens 42° + case
- T199589; Lens 24° + case
- T911705ACC; USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m
- T911632ACC; USB Type-C to HDMI adapter, standard specification UH311
- T911631ACC; USB 2.0 A to USB Type-C cable, 0.9 m
- T911630ACC; Power supply for camera, 15 W/3 A
- T199346ACC; Hard transport case
- T911633ACC; Power supply for battery charger
- T199330ACC; Battery
- T199557ACC; Accessory Box II
- T198583; FLIR Tools+ (download card incl. license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)

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<http://support.flir.com>



Imaging and optical data	
Infrared resolution	384 × 288 pixels
UltraMax (super-resolution)	In FLIR Tools
NETD	<ul style="list-style-type: none"> • <30 mK, 42° @ +30°C (+86°F) • <40 mK, 24° @ +30°C (+86°F) • <50 mK, 14° @ +30°C (+86°F)
Field of view	<ul style="list-style-type: none"> • 42° × 32° • 24° × 18° • 14° × 10°
Minimum focus distance	<ul style="list-style-type: none"> • 0.15 m (0.49 ft.), 42° • 0.15 m (0.49 ft.), 24° • 1.0 m (3.28 ft.), 14°
Minimum focus distance with MSX	<ul style="list-style-type: none"> • 0.65 m (2.13 ft.), 42° • 0.5 m (1.64 ft.), 24° • 1.0 m (3.28 ft.), 14°
Focal length	<ul style="list-style-type: none"> • 10 mm (0.39 in.), 42° • 17 mm (0.67 in.), 24° • 29 mm (1.41 in.), 14°
Spatial resolution (IFOV)	<ul style="list-style-type: none"> • 2.00 mrad/pixel, 42° • 1.09 mrad/pixel, 24° • 0.63 mrad/pixel, 14°
Additional lenses	<ul style="list-style-type: none"> • 24° • 14°
Lens identification	Automatic
f number	<ul style="list-style-type: none"> • 1.1, 42° • 1.3, 24° • 1.5, 14°
Image frequency	30 Hz
Focus	<ul style="list-style-type: none"> • Continuous LDM • One-shot LDM • One-shot contrast • Manual
Field of view match	Yes
Digital zoom	1–4x continuous
Detector data	
Focal plane array/spectral range	Uncooled microbolometer/7.5–14 μm
Detector pitch	17 μm



FLIR E85 42°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Image presentation	
Resolution	640 × 480 pixels (VGA)
Surface brightness (cd/m ²)	400
Screen size	4 in.
Viewing angle	80°
Color depth (bits)	24
Aspect ratio	4:3
Auto-rotation	Yes
Touchscreen	Optically bonded PCAP
Display technology	IPS
Cover glass material	Dragontrail®
Programmable buttons	1
Viewfinder	No
Image adjustment	<ul style="list-style-type: none"> • Automatic • Automatic maximum • Automatic minimum • Manual

Image presentation modes	
Infrared image	Yes
Visual image	Yes
Thermal fusion	No
MSX	Yes
Picture in Picture	Resizable and movable
Gallery	Yes

Measurement		
Camera temperature range	Object temperature range	Accuracy — for ambient temperature +15 to +35°C (+59 to +95°F)
-20 to +120°C (-4 to +248°F)	-20 to +0°C (-4 to +32°F)	±2°C (±3.6°F)
	0 to +100°C (+32 to +212°F)	±2°C (±3.6°F)
	+100 to +120°C (+212 to +248°F)	±2%
0 to +650°C (+32 to +1202°F)	0 to +100°C (+32 to +212°F)	±2°C (±3.6°F)
	+100 to +650°C (+212 to +1202°F)	±2%
+300 to +1200°C (+572 to +2192°F)	+300 to +1200°C (+572 to +2192°F)	±2%

Measurement analysis	
Spotmeter	3 in live mode
Area	3 in live mode
Automatic hot/cold detection	Auto-maximum/minimum markers within area
Measurement presets	<ul style="list-style-type: none"> • No measurements • Center spot • Hot spot • Cold spot • User preset 1 • User preset 2



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Measurement analysis	
Difference temperature	Yes
Reference temperature	Yes
Emissivity correction	Yes: variable from 0.01 to 1.0 or selected from materials list
Measurement corrections	Yes
External optics/windows correction	Yes
Screening	0.5°C (0.9°F) accuracy @ 37°C (98.6°F) with reference

Alarm	
Color alarm (isotherm)	<ul style="list-style-type: none"> Above Below Interval Condensation (moisture/humidity/dewpoint) Insulation
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function

Set-up	
Color palettes	<ul style="list-style-type: none"> Iron Gray Rainbow Arctic Lava Rainbow HC
Setup commands	Local adaptation of units, language, date and time formats
Languages	21

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Storage media	Removable memory; SD card (8 GB)
Time lapse (periodic image storage)	No
Remote control operation	<ul style="list-style-type: none"> Using FLIR Tools (using USB cable) FLIR Tools Mobile (over Wi-Fi)
Image file format	Standard JPEG, measurement data included. Infrared-only mode

Image annotations	
Voice	60 seconds built-in microphone and speaker (and via Bluetooth) on still images and video
Text	Text from predefined list or soft keyboard on touchscreen
Visual image annotation	Yes
Image sketch	Yes: on infrared images only
Sketch	From touchscreen
METERLINK	Wireless connection (Bluetooth) to: FLIR meters with METERLINK
Compass	Yes
Laser distance meter information	Yes



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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Image annotations	
Area measurement information	Yes
GPS	Yes: location data automatically added to every still image and the first frame in video from built-in GPS

Video recording in camera	
Radiometric infrared-video recording	RTRR (.csq)
Non-radiometric infrared-video recording	H.264 to memory card
Visual video recording	H.264 to memory card

Video streaming	
Radiometric infrared-video streaming (compressed)	Yes: over UVC or RTSP (Wi-Fi)
Non-radiometric video streaming (compressed: IR, MSX, visual, Picture in Picture)	<ul style="list-style-type: none">• H.264 (AVC) over RTSP (Wi-Fi)• MPEG4 over RTSP (Wi-Fi)• MJPEG over UVC and RTSP (Wi-Fi)
Visual video streaming	Yes

Digital camera	
Resolution	5 MP with LED light
Focus	Fixed
Field of view	53° × 41°
Video lamp	Built-in LED light

Laser pointer	
Laser alignment	Position is automatically displayed on the infrared image
Laser distance meter	Activated by a dedicated button
Laser	Class 2, 0.05–40 m (1.6–131 ft.) ±1% of measured distance

Data communication interfaces	
Interfaces	USB 2.0, Bluetooth, Wi-Fi, DisplayPort
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (<i>ad hoc</i>) or infrastructure (network)
Audio	Microphone and speaker for voice annotation of images
USB	USB Type-C: data transfer/video/power
USB standard	USB 2.0 High Speed
Video out	DisplayPort
Video connector type	DisplayPort over USB Type-C

Power system	
Battery type	Rechargeable Li-ion battery
Battery voltage	3.6 V
Battery operating time	> 2.5 hours at 25°C (68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or two-bay charger



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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Power system	
Charging time (using two-bay charger)	2.5 hours to 90% capacity with charging status indicated by LEDs
Charging temperature	0°C to +45°C (+32°F to +113°F), except for the Korean market: +10°C to +45°C (+50°F to +113°F)
External power operation	AC adapter 90–260 V AC, 50/60 Hz, or 12 V from a vehicle (cable with standard plug—optional)
Power management	Automatic shut-down and sleep mode

Environmental data	
Operating temperature range	–15 to +50°C (5–122°F)
Storage temperature range	–40 to +70°C (–40 to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 hours/95% relative humidity 25–40°C (77–104°F)/two cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (immunity)• EN 61000-6-3 (emission)• FCC 47 CFR Part 15 Class B (emission)
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.249• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25g (IEC 60068-2-27)
Vibration	2g (IEC 60068-2-6)
Drop	Designed for 2 m (6.6 ft.)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight (including battery)	1 kg (2.2 lb.)
Size (L × W × H)	278.4 × 116.1 × 113.1 mm (11.0 × 4.6 × 4.4 in.)
Battery weight	140 g (4.9 oz.)
Battery size (L × W × H)	150 × 46 × 55 mm (5.9 × 1.8 × 2.2 in.)
Tripod mounting	UNC ¼"-20
Housing material	PCABS with TPE, magnesium
Color	Black

Warranty and service	
Warranty	http://www.flir.com/warranty/

Shipping information	
Packaging, type	Cardboard box



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Website

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Customer support

<http://support.flir.com>

Shipping information	
Packaging, contents	<ul style="list-style-type: none">• Battery (2 ea)• Battery charger• Hard transport case• Infrared camera with lens• Lens cap, front• Lens cap, front and rear (only for extra lenses)• Accessory Box I:<ul style="list-style-type: none">• SD card (8 GB)• USB 2.0 A to USB Type-C cable, 1.0 m• USB Type-C to HDMI adapter, standard specification UH311• USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m• Power supply for battery charger• Power supply, 15 W/3 A• Printed documentation• Accessory box II:<ul style="list-style-type: none">• Hand strap• Lanyard strap, camera• Wrist strap• Lens cap strap• Front protection• Carabiner hook• Accessory box III:<ul style="list-style-type: none">• Hand strap bracket, right• Hand strap bracket, left• Torx T10 wrench• Front protection fastener• Screws
Packaging, weight	5.8 kg (12.8 lb.)
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)
EAN-13	4743254002685
UPC-12	845188013912
Country of origin	Estonia

Supplies & accessories:

- T197771ACC; Bluetooth Headset
- T199425ACC; Battery charger
- T911689ACC; Pouch
- T911706ACC; Car adapter 12 V
- T199588; Lens 14° + case
- T199590; Lens 42° + case
- T199589; Lens 24° + case
- T911705ACC; USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m
- T911632ACC; USB Type-C to HDMI adapter, standard specification UH311
- T911631ACC; USB 2.0 A to USB Type-C cable, 0.9 m
- T911630ACC; Power supply for camera, 15 W/3 A
- T199346ACC; Hard transport case
- T911633ACC; Power supply for battery charger
- T199330ACC; Battery
- T199557ACC; Accessory Box II
- T198583; FLIR Tools+ (download card incl. license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Imaging and optical data	
Infrared resolution	384 × 288 pixels
UltraMax (super-resolution)	In FLIR Tools
NETD	<ul style="list-style-type: none"> <30 mK, 42° @ +30°C (+86°F) <40 mK, 24° @ +30°C (+86°F) <50 mK, 14° @ +30°C (+86°F)
Field of view	<ul style="list-style-type: none"> 42° × 32° 24° × 18° 14° × 10°
Minimum focus distance	<ul style="list-style-type: none"> 0.15 m (0.49 ft.), 42° 0.15 m (0.49 ft.), 24° 1.0 m (3.28 ft.), 14°
Minimum focus distance with MSX	<ul style="list-style-type: none"> 0.65 m (2.13 ft.), 42° 0.5 m (1.64 ft.), 24° 1.0 m (3.28 ft.), 14°
Focal length	<ul style="list-style-type: none"> 10 mm (0.39 in.), 42° 17 mm (0.67 in.), 24° 29 mm (1.41 in.), 14°
Spatial resolution (IFOV)	<ul style="list-style-type: none"> 2.00 mrad/pixel, 42° 1.09 mrad/pixel, 24° 0.63 mrad/pixel, 14°
Additional lenses	<ul style="list-style-type: none"> 24°
Lens identification	Automatic
f number	<ul style="list-style-type: none"> 1.1, 42° 1.3, 24° 1.5, 14°
Image frequency	30 Hz
Focus	<ul style="list-style-type: none"> Continuous LDM One-shot LDM One-shot contrast Manual
Field of view match	Yes
Digital zoom	1–4× continuous
Detector data	
Focal plane array/spectral range	Uncooled microbolometer/7.5–14 μm
Detector pitch	17 μm



FLIR E85 42° + 14°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Image presentation	
Resolution	640 × 480 pixels (VGA)
Surface brightness (cd/m ²)	400
Screen size	4 in.
Viewing angle	80°
Color depth (bits)	24
Aspect ratio	4:3
Auto-rotation	Yes
Touchscreen	Optically bonded PCAP
Display technology	IPS
Cover glass material	Dragontrail®
Programmable buttons	1
Viewfinder	No
Image adjustment	<ul style="list-style-type: none"> • Automatic • Automatic maximum • Automatic minimum • Manual

Image presentation modes	
Infrared image	Yes
Visual image	Yes
Thermal fusion	No
MSX	Yes
Picture in Picture	Resizable and movable
Gallery	Yes

Measurement		
Camera temperature range	Object temperature range	Accuracy — for ambient temperature +15 to +35°C (+59 to +95°F)
-20 to +120°C (-4 to +248°F)	-20 to +0°C (-4 to +32°F)	±2°C (±3.6°F)
	0 to +100°C (+32 to +212°F)	±2°C (±3.6°F)
	+100 to +120°C (+212 to +248°F)	±2%
0 to +650°C (+32 to +1202°F)	0 to +100°C (+32 to +212°F)	±2°C (±3.6°F)
	+100 to +650°C (+212 to +1202°F)	±2%
+300 to +1200°C (+572 to +2192°F)	+300 to +1200°C (+572 to +2192°F)	±2%

Measurement analysis	
Spotmeter	3 in live mode
Area	3 in live mode
Automatic hot/cold detection	Auto-maximum/minimum markers within area
Measurement presets	<ul style="list-style-type: none"> • No measurements • Center spot • Hot spot • Cold spot • User preset 1 • User preset 2



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Measurement analysis	
Difference temperature	Yes
Reference temperature	Yes
Emissivity correction	Yes: variable from 0.01 to 1.0 or selected from materials list
Measurement corrections	Yes
External optics/windows correction	Yes
Screening	0.5°C (0.9°F) accuracy @ 37°C (98.6°F) with reference

Alarm	
Color alarm (isotherm)	<ul style="list-style-type: none">• Above• Below• Interval• Condensation (moisture/humidity/dewpoint)• Insulation
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function

Set-up	
Color palettes	<ul style="list-style-type: none">• Iron• Gray• Rainbow• Arctic• Lava• Rainbow HC
Setup commands	Local adaptation of units, language, date and time formats
Languages	21

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Storage media	Removable memory; SD card (8 GB)
Time lapse (periodic image storage)	No
Remote control operation	<ul style="list-style-type: none">• Using FLIR Tools (using USB cable)• FLIR Tools Mobile (over Wi-Fi)
Image file format	Standard JPEG, measurement data included. Infrared-only mode

Image annotations	
Voice	60 seconds built-in microphone and speaker (and via Bluetooth) on still images and video
Text	Text from predefined list or soft keyboard on touchscreen
Visual image annotation	Yes
Image sketch	Yes: on infrared images only
Sketch	From touchscreen
METERLINK	Wireless connection (Bluetooth) to: FLIR meters with METERLINK
Compass	Yes
Laser distance meter information	Yes



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Image annotations	
Area measurement information	Yes
GPS	Yes: location data automatically added to every still image and the first frame in video from built-in GPS

Video recording in camera	
Radiometric infrared-video recording	RTRR (.csq)
Non-radiometric infrared-video recording	H.264 to memory card
Visual video recording	H.264 to memory card

Video streaming	
Radiometric infrared-video streaming (compressed)	Yes: over UVC or RTSP (Wi-Fi)
Non-radiometric video streaming (compressed: IR, MSX, visual, Picture in Picture)	<ul style="list-style-type: none"> • H.264 (AVC) over RTSP (Wi-Fi) • MPEG4 over RTSP (Wi-Fi) • MJPEG over UVC and RTSP (Wi-Fi)
Visual video streaming	Yes

Digital camera	
Resolution	5 MP with LED light
Focus	Fixed
Field of view	53° × 41°
Video lamp	Built-in LED light

Laser pointer	
Laser alignment	Position is automatically displayed on the infrared image
Laser distance meter	Activated by a dedicated button
Laser	Class 2, 0.05–40 m (1.6–131 ft.) ±1% of measured distance

Data communication interfaces	
Interfaces	USB 2.0, Bluetooth, Wi-Fi, DisplayPort
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (<i>ad hoc</i>) or infrastructure (network)
Audio	Microphone and speaker for voice annotation of images
USB	USB Type-C: data transfer/video/power
USB standard	USB 2.0 High Speed
Video out	DisplayPort
Video connector type	DisplayPort over USB Type-C

Power system	
Battery type	Rechargeable Li-ion battery
Battery voltage	3.6 V
Battery operating time	> 2.5 hours at 25°C (68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or two-bay charger



FLIR E85 42° + 14°

P/N: 78507-0201

Revision

48062

Last modified

2018-03-08 13:18 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Power system	
Charging time (using two-bay charger)	2.5 hours to 90% capacity with charging status indicated by LEDs
Charging temperature	0°C to +45°C (+32°F to +113°F), except for the Korean market: +10°C to +45°C (+50°F to +113°F)
External power operation	AC adapter 90–260 V AC, 50/60 Hz, or 12 V from a vehicle (cable with standard plug—optional)
Power management	Automatic shut-down and sleep mode

Environmental data	
Operating temperature range	–15 to +50°C (5–122°F)
Storage temperature range	–40 to +70°C (–40 to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 hours/95% relative humidity 25–40°C (77–104°F)/two cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (immunity)• EN 61000-6-3 (emission)• FCC 47 CFR Part 15 Class B (emission)
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.249• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25g (IEC 60068-2-27)
Vibration	2g (IEC 60068-2-6)
Drop	Designed for 2 m (6.6 ft.)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight (including battery)	1 kg (2.2 lb.)
Size (L × W × H)	278.4 × 116.1 × 113.1 mm (11.0 × 4.6 × 4.4 in.)
Battery weight	140 g (4.9 oz.)
Battery size (L × W × H)	150 × 46 × 55 mm (5.9 × 1.8 × 2.2 in.)
Tripod mounting	UNC ¼"-20
Housing material	PCABS with TPE, magnesium
Color	Black

Warranty and service	
Warranty	http://www.flir.com/warranty/

Shipping information	
Packaging, type	Cardboard box

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Website

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Customer support

<http://support.flir.com>

Shipping information	
Packaging, contents	<ul style="list-style-type: none"> • Extra lens, 14° • Battery (2 ea) • Battery charger • Hard transport case • Infrared camera with lens • Lens cap, front • Lens cap, front and rear (only for extra lenses) • Accessory Box I: <ul style="list-style-type: none"> • SD card (8 GB) • USB 2.0 A to USB Type-C cable, 1.0 m • USB Type-C to HDMI adapter, standard specification UH311 • USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m • Power supply for battery charger • Power supply, 15 W/3 A • Printed documentation • Accessory box II: <ul style="list-style-type: none"> • Hand strap • Lanyard strap, camera • Wrist strap • Lens cap strap • Front protection • Carabiner hook • Accessory box III: <ul style="list-style-type: none"> • Hand strap bracket, right • Hand strap bracket, left • Torx T10 wrench • Front protection fastener • Screws
Packaging, weight	
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)
EAN-13	4743254003330
UPC-12	845188014742
Country of origin	Estonia

Supplies & accessories:

- T197771ACC; Bluetooth Headset
- T911689ACC; Pouch
- T911705ACC; USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m
- T911632ACC; USB Type-C to HDMI adapter, standard specification UH311
- T911631ACC; USB 2.0 A to USB Type-C cable, 0.9 m
- T911630ACC; Power supply for camera, 15 W/3 A
- T911633ACC; Power supply for battery charger
- T198583; FLIR Tools+ (download card incl. license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)

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Website

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Customer support

<http://support.flir.com>



Imaging and optical data	
Infrared resolution	464 × 348 pixels
UltraMax (super-resolution)	In FLIR Tools
NETD	<ul style="list-style-type: none"> <30 mK, 42° @ +30°C (+86°F) <40 mK, 24° @ +30°C (+86°F) <50 mK, 14° @ +30°C (+86°F)
Field of view	<ul style="list-style-type: none"> 42° × 32° 24° × 18° 14° × 10°
Minimum focus distance	<ul style="list-style-type: none"> 0.15 m (0.49 ft.), 42° 0.15 m (0.49 ft.), 24° 1.0 m (3.28 ft.), 14°
Minimum focus distance with MSX	<ul style="list-style-type: none"> 0.65 m (2.13 ft.), 42° 0.5 m (1.64 ft.), 24° 1.0 m (3.28 ft.), 14°
Focal length	<ul style="list-style-type: none"> 10 mm (0.39 in.), 42° 17 mm (0.67 in.), 24° 29 mm (1.41 in.), 14°
Spatial resolution (IFOV)	<ul style="list-style-type: none"> 1.66 mrad/pixel, 42° 0.90 mrad/pixel, 24° 0.52 mrad/pixel, 14°
Additional lenses	<ul style="list-style-type: none"> 42° 24°
Lens identification	Automatic
f number	<ul style="list-style-type: none"> 1.1, 42° 1.3, 24° 1.5, 14°
Image frequency	30 Hz
Focus	<ul style="list-style-type: none"> Continuous LDM One-shot LDM One-shot contrast Manual
Field of view match	Yes
Digital zoom	1–4x continuous

Detector data	
Focal plane array/spectral range	Uncooled microbolometer/7.5–14 μm
Detector pitch	17 μm



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Website

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Customer support

<http://support.flir.com>

Image presentation	
Resolution	640 × 480 pixels (VGA)
Surface brightness (cd/m ²)	400
Screen size	4 in.
Viewing angle	80°
Color depth (bits)	24
Aspect ratio	4:3
Auto-rotation	Yes
Touchscreen	Optically bonded PCAP
Display technology	IPS
Cover glass material	Dragontrail®
Programmable buttons	1
Viewfinder	No
Image adjustment	<ul style="list-style-type: none"> • Automatic • Automatic maximum • Automatic minimum • Manual

Image presentation modes	
Infrared image	Yes
Visual image	Yes
Thermal fusion	No
MSX	Yes
Picture in Picture	Resizable and movable
Gallery	Yes

Measurement		
Camera temperature range	Object temperature range	Accuracy — for ambient temperature +15 to +35°C (+59 to +95°F)
-20 to +120°C (-4 to +248°F)	-20 to +0°C (-4 to +32°F)	±2°C (±3.6°F)
	0 to +100°C (+32 to +212°F)	±2°C (±3.6°F)
	+100 to +120°C (+212 to +248°F)	±2%
0 to +650°C (+32 to +1202°F)	0 to +100°C (+32 to +212°F)	±2°C (±3.6°F)
	+100 to + 650°C (+212 to +1202°F)	±2%
+300 to +1500°C (+572 to +2732°F)	+300 to +1500°C (+572 to +2732°F)	±2%

Measurement analysis	
Spotmeter	3 in live mode
Area	3 in live mode
Automatic hot/cold detection	Auto-maximum/minimum markers within area
Measurement presets	<ul style="list-style-type: none"> • No measurements • Center spot • Hot spot • Cold spot • User preset 1 • User preset 2

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Measurement analysis	
Difference temperature	Yes
Reference temperature	Yes
Emissivity correction	Yes: variable from 0.01 to 1.0 or selected from materials list
Measurement corrections	Yes
External optics/windows correction	Yes
Screening	0.5°C (0.9°F) accuracy @ 37°C (98.6°F) with reference

Alarm	
Color alarm (isotherm)	<ul style="list-style-type: none"> • Above • Below • Interval • Condensation (moisture/humidity/dewpoint) • Insulation
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function

Set-up	
Color palettes	<ul style="list-style-type: none"> • Iron • Gray • Rainbow • Arctic • Lava • Rainbow HC
Setup commands	Local adaptation of units, language, date and time formats
Languages	21

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Storage media	Removable memory; SD card (8 GB)
Time lapse (periodic image storage)	10 seconds to 24 hours (infrared)
Remote control operation	<ul style="list-style-type: none"> • Using FLIR Tools (using USB cable) • FLIR Tools Mobile (over Wi-Fi)
Image file format	Standard JPEG, measurement data included. Infrared-only mode

Image annotations	
Voice	60 seconds built-in microphone and speaker (and via Bluetooth) on still images and video
Text	Text from predefined list or soft keyboard on touchscreen
Visual image annotation	Yes
Image sketch	Yes: on infrared images only
Sketch	From touchscreen
METERLINK	Wireless connection (Bluetooth) to: FLIR meters with METERLINK
Compass	Yes
Laser distance meter information	Yes



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Customer support

<http://support.flir.com>

Image annotations	
Area measurement information	Yes
GPS	Yes: location data automatically added to every still image and the first frame in video from built-in GPS

Video recording in camera	
Radiometric infrared-video recording	RTRR (.csq)
Non-radiometric infrared-video recording	H.264 to memory card
Visual video recording	H.264 to memory card

Video streaming	
Radiometric infrared-video streaming (compressed)	Yes: over UVC or RTSP (Wi-Fi)
Non-radiometric video streaming (compressed: IR, MSX, visual, Picture in Picture)	<ul style="list-style-type: none">• H.264 (AVC) over RTSP (Wi-Fi)• MPEG4 over RTSP (Wi-Fi)• MJPEG over UVC and RTSP (Wi-Fi)
Visual video streaming	Yes

Digital camera	
Resolution	5 MP with LED light
Focus	Fixed
Field of view	53° × 41°
Video lamp	Built-in LED light

Laser pointer	
Laser alignment	Position is automatically displayed on the infrared image
Laser distance meter	Activated by a dedicated button
Laser	Class 2, 0.05–40 m (1.6–131 ft.) ±1% of measured distance

Data communication interfaces	
Interfaces	USB 2.0, Bluetooth, Wi-Fi, DisplayPort
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (<i>ad hoc</i>) or infrastructure (network)
Audio	Microphone and speaker for voice annotation of images
USB	USB Type-C: data transfer/video/power
USB standard	USB 2.0 High Speed
Video out	DisplayPort
Video connector type	DisplayPort over USB Type-C

Power system	
Battery type	Rechargeable Li-ion battery
Battery voltage	3.6 V
Battery operating time	> 2.5 hours at 25°C (68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or two-bay charger



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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Power system	
Charging time (using two-bay charger)	2.5 hours to 90% capacity with charging status indicated by LEDs
Charging temperature	0°C to +45°C (+32°F to +113°F), except for the Korean market: +10°C to +45°C (+50°F to +113°F)
External power operation	AC adapter 90–260 V AC, 50/60 Hz, or 12 V from a vehicle (cable with standard plug—optional)
Power management	Automatic shut-down and sleep mode

Environmental data	
Operating temperature range	–15 to +50°C (5–122°F)
Storage temperature range	–40 to +70°C (–40 to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 hours/95% relative humidity 25–40°C (77–104°F)/two cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (immunity)• EN 61000-6-3 (emission)• FCC 47 CFR Part 15 Class B (emission)
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.249• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25g (IEC 60068-2-27)
Vibration	2g (IEC 60068-2-6)
Drop	Designed for 2 m (6.6 ft.)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight (including battery)	1 kg (2.2 lb.)
Size (L × W × H)	278.4 × 116.1 × 113.1 mm (11.0 × 4.6 × 4.4 in.)
Battery weight	140 g (4.9 oz.)
Battery size (L × W × H)	150 × 46 × 55 mm (5.9 × 1.8 × 2.2 in.)
Tripod mounting	UNC ¼"-20
Housing material	PCABS with TPE, magnesium
Color	Black

Warranty and service	
Warranty	http://www.flir.com/warranty/

Shipping information	
Packaging, type	Cardboard box

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Shipping information	
Packaging, contents	<ul style="list-style-type: none"> • Battery (2 ea) • Battery charger • Hard transport case • Infrared camera with lens • Lens cap, front • Lens cap, front and rear (only for extra lenses) • Accessory Box I: <ul style="list-style-type: none"> • SD card (8 GB) • USB 2.0 A to USB Type-C cable, 1.0 m • USB Type-C to HDMI adapter, standard specification UH311 • USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m • Power supply for battery charger • Power supply, 15 W/3 A • Printed documentation • Accessory box II: <ul style="list-style-type: none"> • Hand strap • Lanyard strap, camera • Wrist strap • Lens cap strap • Front protection • Carabiner hook • Accessory box III: <ul style="list-style-type: none"> • Hand strap bracket, right • Hand strap bracket, left • Torx T10 wrench • Front protection fastener • Screws
Packaging, weight	5.8 kg (12.8 lb.)
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)
EAN-13	4743254003835
UPC-12	845188016784
Country of origin	Estonia

Supplies & accessories:

- T197771ACC; Bluetooth Headset
- T199425ACC; Battery charger
- T911689ACC; Pouch
- T911706ACC; Car adapter 12 V
- T199588; Lens 14° + case
- T199590; Lens 42° + case
- T199589; Lens 24° + case
- T911705ACC; USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m
- T911632ACC; USB Type-C to HDMI adapter, standard specification UH311
- T911631ACC; USB 2.0 A to USB Type-C cable, 0.9 m
- T911630ACC; Power supply for camera, 15 W/3 A
- T199346ACC; Hard transport case
- T911633ACC; Power supply for battery charger
- T199330ACC; Battery
- T199557ACC; Accessory Box II
- T198583; FLIR Tools+ (download card incl. license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Imaging and optical data	
Infrared resolution	464 × 348 pixels
UltraMax (super-resolution)	In FLIR Tools
NETD	<ul style="list-style-type: none"> • <30 mK, 42° @ +30°C (+86°F) • <40 mK, 24° @ +30°C (+86°F) • <50 mK, 14° @ +30°C (+86°F)
Field of view	<ul style="list-style-type: none"> • 42° × 32° • 24° × 18° • 14° × 10°
Minimum focus distance	<ul style="list-style-type: none"> • 0.15 m (0.49 ft.), 42° • 0.15 m (0.49 ft.), 24° • 1.0 m (3.28 ft.), 14°
Minimum focus distance with MSX	<ul style="list-style-type: none"> • 0.65 m (2.13 ft.), 42° • 0.5 m (1.64 ft.), 24° • 1.0 m (3.28 ft.), 14°
Focal length	<ul style="list-style-type: none"> • 10 mm (0.39 in.), 42° • 17 mm (0.67 in.), 24° • 29 mm (1.41 in.), 14°
Spatial resolution (IFOV)	<ul style="list-style-type: none"> • 1.66 mrad/pixel, 42° • 0.90 mrad/pixel, 24° • 0.52 mrad/pixel, 14°
Additional lenses	<ul style="list-style-type: none"> • 14° • 42°
Lens identification	Automatic
f number	<ul style="list-style-type: none"> • 1.1, 42° • 1.3, 24° • 1.5, 14°
Image frequency	30 Hz
Focus	<ul style="list-style-type: none"> • Continuous LDM • One-shot LDM • One-shot contrast • Manual
Field of view match	Yes
Digital zoom	1–4x continuous
Detector data	
Focal plane array/spectral range	Uncooled microbolometer/7.5–14 μm
Detector pitch	17 μm



FLIR E95 24°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Image presentation	
Resolution	640 × 480 pixels (VGA)
Surface brightness (cd/m ²)	400
Screen size	4 in.
Viewing angle	80°
Color depth (bits)	24
Aspect ratio	4:3
Auto-rotation	Yes
Touchscreen	Optically bonded PCAP
Display technology	IPS
Cover glass material	Dragontrail®
Programmable buttons	1
Viewfinder	No
Image adjustment	<ul style="list-style-type: none"> • Automatic • Automatic maximum • Automatic minimum • Manual

Image presentation modes	
Infrared image	Yes
Visual image	Yes
Thermal fusion	No
MSX	Yes
Picture in Picture	Resizable and movable
Gallery	Yes

Measurement		
Camera temperature range	Object temperature range	Accuracy — for ambient temperature +15 to +35°C (+59 to +95°F)
-20 to +120°C (-4 to +248°F)	-20 to +0°C (-4 to +32°F)	±2°C (±3.6°F)
	0 to +100°C (+32 to +212°F)	±2°C (±3.6°F)
	+100 to +120°C (+212 to +248°F)	±2%
0 to +650°C (+32 to +1202°F)	0 to +100°C (+32 to +212°F)	±2°C (±3.6°F)
	+100 to +650°C (+212 to +1202°F)	±2%
+300 to +1500°C (+572 to +2732°F)	+300 to +1500°C (+572 to +2732°F)	±2%

Measurement analysis	
Spotmeter	3 in live mode
Area	3 in live mode
Automatic hot/cold detection	Auto-maximum/minimum markers within area
Measurement presets	<ul style="list-style-type: none"> • No measurements • Center spot • Hot spot • Cold spot • User preset 1 • User preset 2



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Measurement analysis	
Difference temperature	Yes
Reference temperature	Yes
Emissivity correction	Yes: variable from 0.01 to 1.0 or selected from materials list
Measurement corrections	Yes
External optics/windows correction	Yes
Screening	0.5°C (0.9°F) accuracy @ 37°C (98.6°F) with reference

Alarm	
Color alarm (isotherm)	<ul style="list-style-type: none"> • Above • Below • Interval • Condensation (moisture/humidity/dewpoint) • Insulation
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function

Set-up	
Color palettes	<ul style="list-style-type: none"> • Iron • Gray • Rainbow • Arctic • Lava • Rainbow HC
Setup commands	Local adaptation of units, language, date and time formats
Languages	21

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Storage media	Removable memory; SD card (8 GB)
Time lapse (periodic image storage)	10 seconds to 24 hours (infrared)
Remote control operation	<ul style="list-style-type: none"> • Using FLIR Tools (using USB cable) • FLIR Tools Mobile (over Wi-Fi)
Image file format	Standard JPEG, measurement data included. Infrared-only mode

Image annotations	
Voice	60 seconds built-in microphone and speaker (and via Bluetooth) on still images and video
Text	Text from predefined list or soft keyboard on touchscreen
Visual image annotation	Yes
Image sketch	Yes: on infrared images only
Sketch	From touchscreen
METERLINK	Wireless connection (Bluetooth) to: FLIR meters with METERLINK
Compass	Yes
Laser distance meter information	Yes



FLIR E95 24°

P/N: 78502-0301

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Image annotations	
Area measurement information	Yes
GPS	Yes: location data automatically added to every still image and the first frame in video from built-in GPS

Video recording in camera	
Radiometric infrared-video recording	RTRR (.csq)
Non-radiometric infrared-video recording	H.264 to memory card
Visual video recording	H.264 to memory card

Video streaming	
Radiometric infrared-video streaming (compressed)	Yes: over UVC or RTSP (Wi-Fi)
Non-radiometric video streaming (compressed: IR, MSX, visual, Picture in Picture)	<ul style="list-style-type: none"> H.264 (AVC) over RTSP (Wi-Fi) MPEG4 over RTSP (Wi-Fi) MJPEG over UVC and RTSP (Wi-Fi)
Visual video streaming	Yes

Digital camera	
Resolution	5 MP with LED light
Focus	Fixed
Field of view	53° × 41°
Video lamp	Built-in LED light

Laser pointer	
Laser alignment	Position is automatically displayed on the infrared image
Laser distance meter	Activated by a dedicated button
Laser	Class 2, 0.05–40 m (1.6–131 ft.) ±1% of measured distance

Data communication interfaces	
Interfaces	USB 2.0, Bluetooth, Wi-Fi, DisplayPort
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (<i>ad hoc</i>) or infrastructure (network)
Audio	Microphone and speaker for voice annotation of images
USB	USB Type-C: data transfer/video/power
USB standard	USB 2.0 High Speed
Video out	DisplayPort
Video connector type	DisplayPort over USB Type-C

Power system	
Battery type	Rechargeable Li-ion battery
Battery voltage	3.6 V
Battery operating time	> 2.5 hours at 25°C (68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or two-bay charger



FLIR E95 24°

P/N: 78502-0301

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Power system	
Charging time (using two-bay charger)	2.5 hours to 90% capacity with charging status indicated by LEDs
Charging temperature	0°C to +45°C (+32°F to +113°F), except for the Korean market: +10°C to +45°C (+50°F to +113°F)
External power operation	AC adapter 90–260 V AC, 50/60 Hz, or 12 V from a vehicle (cable with standard plug—optional)
Power management	Automatic shut-down and sleep mode

Environmental data	
Operating temperature range	–15 to +50°C (5–122°F)
Storage temperature range	–40 to +70°C (–40 to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 hours/95% relative humidity 25–40°C (77–104°F)/two cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (immunity)• EN 61000-6-3 (emission)• FCC 47 CFR Part 15 Class B (emission)
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.249• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25g (IEC 60068-2-27)
Vibration	2g (IEC 60068-2-6)
Drop	Designed for 2 m (6.6 ft.)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight (including battery)	1 kg (2.2 lb.)
Size (L × W × H)	278.4 × 116.1 × 113.1 mm (11.0 × 4.6 × 4.4 in.)
Battery weight	140 g (4.9 oz.)
Battery size (L × W × H)	150 × 46 × 55 mm (5.9 × 1.8 × 2.2 in.)
Tripod mounting	UNC ¼"-20
Housing material	PCABS with TPE, magnesium
Color	Black

Warranty and service	
Warranty	http://www.flir.com/warranty/

Shipping information	
Packaging, type	Cardboard box

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Website

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Customer support

<http://support.flir.com>

Shipping information	
Packaging, contents	<ul style="list-style-type: none"> Battery (2 ea) Battery charger Hard transport case Infrared camera with lens Lens cap, front Lens cap, front and rear (only for extra lenses) Accessory Box I: <ul style="list-style-type: none"> SD card (8 GB) USB 2.0 A to USB Type-C cable, 1.0 m USB Type-C to HDMI adapter, standard specification UH311 USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m Power supply for battery charger Power supply, 15 W/3 A Printed documentation Accessory box II: <ul style="list-style-type: none"> Hand strap Lanyard strap, camera Wrist strap Lens cap strap Front protection Carabiner hook Accessory box III: <ul style="list-style-type: none"> Hand strap bracket, right Hand strap bracket, left Torx T10 wrench Front protection fastener Screws
Packaging, weight	5.8 kg (12.8 lb.)
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)
EAN-13	4743254002692
UPC-12	845188013929
Country of origin	Estonia

Supplies & accessories:

- T197771ACC; Bluetooth Headset
- T199425ACC; Battery charger
- T911689ACC; Pouch
- T911706ACC; Car adapter 12 V
- T199588; Lens 14° + case
- T199590; Lens 42° + case
- T199589; Lens 24° + case
- T911705ACC; USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m
- T911632ACC; USB Type-C to HDMI adapter, standard specification UH311
- T911631ACC; USB 2.0 A to USB Type-C cable, 0.9 m
- T911630ACC; Power supply for camera, 15 W/3 A
- T199346ACC; Hard transport case
- T911633ACC; Power supply for battery charger
- T199330ACC; Battery
- T199557ACC; Accessory Box II
- T198583; FLIR Tools+ (download card incl. license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)

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Website

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Customer support

<http://support.flir.com>



Imaging and optical data	
Infrared resolution	464 × 348 pixels
UltraMax (super-resolution)	In FLIR Tools
NETD	<ul style="list-style-type: none"> • <30 mK, 42° @ +30°C (+86°F) • <40 mK, 24° @ +30°C (+86°F) • <50 mK, 14° @ +30°C (+86°F)
Field of view	<ul style="list-style-type: none"> • 42° × 32° • 24° × 18° • 14° × 10°
Minimum focus distance	<ul style="list-style-type: none"> • 0.15 m (0.49 ft.), 42° • 0.15 m (0.49 ft.), 24° • 1.0 m (3.28 ft.), 14°
Minimum focus distance with MSX	<ul style="list-style-type: none"> • 0.65 m (2.13 ft.), 42° • 0.5 m (1.64 ft.), 24° • 1.0 m (3.28 ft.), 14°
Focal length	<ul style="list-style-type: none"> • 10 mm (0.39 in.), 42° • 17 mm (0.67 in.), 24° • 29 mm (1.41 in.), 14°
Spatial resolution (IFOV)	<ul style="list-style-type: none"> • 1.66 mrad/pixel, 42° • 0.90 mrad/pixel, 24° • 0.52 mrad/pixel, 14°
Additional lenses	<ul style="list-style-type: none"> • 42°
Lens identification	Automatic
f number	<ul style="list-style-type: none"> • 1.1, 42° • 1.3, 24° • 1.5, 14°
Image frequency	30 Hz
Focus	<ul style="list-style-type: none"> • Continuous LDM • One-shot LDM • One-shot contrast • Manual
Field of view match	Yes
Digital zoom	1–4× continuous
Detector data	
Focal plane array/spectral range	Uncooled microbolometer/7.5–14 μm
Detector pitch	17 μm



FLIR E95 24° + 14°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Image presentation	
Resolution	640 × 480 pixels (VGA)
Surface brightness (cd/m ²)	400
Screen size	4 in.
Viewing angle	80°
Color depth (bits)	24
Aspect ratio	4:3
Auto-rotation	Yes
Touchscreen	Optically bonded PCAP
Display technology	IPS
Cover glass material	Dragontrail®
Programmable buttons	1
Viewfinder	No
Image adjustment	<ul style="list-style-type: none"> • Automatic • Automatic maximum • Automatic minimum • Manual

Image presentation modes	
Infrared image	Yes
Visual image	Yes
Thermal fusion	No
MSX	Yes
Picture in Picture	Resizable and movable
Gallery	Yes

Measurement		
Camera temperature range	Object temperature range	Accuracy — for ambient temperature +15 to +35°C (+59 to +95°F)
-20 to +120°C (-4 to +248°F)	-20 to +0°C (-4 to +32°F)	±2°C (±3.6°F)
	0 to +100°C (+32 to +212°F)	±2°C (±3.6°F)
	+100 to +120°C (+212 to +248°F)	±2%
0 to +650°C (+32 to +1202°F)	0 to +100°C (+32 to +212°F)	±2°C (±3.6°F)
	+100 to + 650°C (+212 to +1202°F)	±2%
+300 to +1500°C (+572 to +2732°F)	+300 to +1500°C (+572 to +2732°F)	±2%

Measurement analysis	
Spotmeter	3 in live mode
Area	3 in live mode
Automatic hot/cold detection	Auto-maximum/minimum markers within area
Measurement presets	<ul style="list-style-type: none"> • No measurements • Center spot • Hot spot • Cold spot • User preset 1 • User preset 2

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Website

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Customer support

<http://support.flir.com>

Measurement analysis	
Difference temperature	Yes
Reference temperature	Yes
Emissivity correction	Yes: variable from 0.01 to 1.0 or selected from materials list
Measurement corrections	Yes
External optics/windows correction	Yes
Screening	0.5°C (0.9°F) accuracy @ 37°C (98.6°F) with reference

Alarm	
Color alarm (isotherm)	<ul style="list-style-type: none"> • Above • Below • Interval • Condensation (moisture/humidity/dewpoint) • Insulation
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function

Set-up	
Color palettes	<ul style="list-style-type: none"> • Iron • Gray • Rainbow • Arctic • Lava • Rainbow HC
Setup commands	Local adaptation of units, language, date and time formats
Languages	21

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Storage media	Removable memory; SD card (8 GB)
Time lapse (periodic image storage)	10 seconds to 24 hours (infrared)
Remote control operation	<ul style="list-style-type: none"> • Using FLIR Tools (using USB cable) • FLIR Tools Mobile (over Wi-Fi)
Image file format	Standard JPEG, measurement data included. Infrared-only mode

Image annotations	
Voice	60 seconds built-in microphone and speaker (and via Bluetooth) on still images and video
Text	Text from predefined list or soft keyboard on touchscreen
Visual image annotation	Yes
Image sketch	Yes: on infrared images only
Sketch	From touchscreen
METERLINK	Wireless connection (Bluetooth) to: FLIR meters with METERLINK
Compass	Yes
Laser distance meter information	Yes



FLIR E95 24° + 14°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Image annotations	
Area measurement information	Yes
GPS	Yes: location data automatically added to every still image and the first frame in video from built-in GPS

Video recording in camera	
Radiometric infrared-video recording	RTRR (.csq)
Non-radiometric infrared-video recording	H.264 to memory card
Visual video recording	H.264 to memory card

Video streaming	
Radiometric infrared-video streaming (compressed)	Yes: over UVC or RTSP (Wi-Fi)
Non-radiometric video streaming (compressed: IR, MSX, visual, Picture in Picture)	<ul style="list-style-type: none"> • H.264 (AVC) over RTSP (Wi-Fi) • MPEG4 over RTSP (Wi-Fi) • MJPEG over UVC and RTSP (Wi-Fi)
Visual video streaming	Yes

Digital camera	
Resolution	5 MP with LED light
Focus	Fixed
Field of view	53° × 41°
Video lamp	Built-in LED light

Laser pointer	
Laser alignment	Position is automatically displayed on the infrared image
Laser distance meter	Activated by a dedicated button
Laser	Class 2, 0.05–40 m (1.6–131 ft.) ±1% of measured distance

Data communication interfaces	
Interfaces	USB 2.0, Bluetooth, Wi-Fi, DisplayPort
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (<i>ad hoc</i>) or infrastructure (network)
Audio	Microphone and speaker for voice annotation of images
USB	USB Type-C: data transfer/video/power
USB standard	USB 2.0 High Speed
Video out	DisplayPort
Video connector type	DisplayPort over USB Type-C

Power system	
Battery type	Rechargeable Li-ion battery
Battery voltage	3.6 V
Battery operating time	> 2.5 hours at 25°C (68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or two-bay charger



FLIR E95 24° + 14°

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Power system	
Charging time (using two-bay charger)	2.5 hours to 90% capacity with charging status indicated by LEDs
Charging temperature	0°C to +45°C (+32°F to +113°F), except for the Korean market: +10°C to +45°C (+50°F to +113°F)
External power operation	AC adapter 90–260 V AC, 50/60 Hz, or 12 V from a vehicle (cable with standard plug—optional)
Power management	Automatic shut-down and sleep mode

Environmental data	
Operating temperature range	–15 to +50°C (5–122°F)
Storage temperature range	–40 to +70°C (–40 to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 hours/95% relative humidity 25–40°C (77–104°F)/two cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (immunity)• EN 61000-6-3 (emission)• FCC 47 CFR Part 15 Class B (emission)
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.249• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25g (IEC 60068-2-27)
Vibration	2g (IEC 60068-2-6)
Drop	Designed for 2 m (6.6 ft.)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight (including battery)	1 kg (2.2 lb.)
Size (L × W × H)	278.4 × 116.1 × 113.1 mm (11.0 × 4.6 × 4.4 in.)
Battery weight	140 g (4.9 oz.)
Battery size (L × W × H)	150 × 46 × 55 mm (5.9 × 1.8 × 2.2 in.)
Tripod mounting	UNC ¼"-20
Housing material	PCABS with TPE, magnesium
Color	Black

Warranty and service	
Warranty	http://www.flir.com/warranty/

Shipping information	
Packaging, type	Cardboard box



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Website

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Customer support

<http://support.flir.com>

Shipping information	
Packaging, contents	<ul style="list-style-type: none">• Extra lens, 14°• Battery (2 ea)• Battery charger• Hard transport case• Infrared camera with lens• Lens cap, front• Lens cap, front and rear (only for extra lenses)• Accessory Box I:<ul style="list-style-type: none">• SD card (8 GB)• USB 2.0 A to USB Type-C cable, 1.0 m• USB Type-C to HDMI adapter, standard specification UH311• USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m• Power supply for battery charger• Power supply, 15 W/3 A• Printed documentation• Accessory box II:<ul style="list-style-type: none">• Hand strap• Lanyard strap, camera• Wrist strap• Lens cap strap• Front protection• Carabiner hook• Accessory box III:<ul style="list-style-type: none">• Hand strap bracket, right• Hand strap bracket, left• Torx T10 wrench• Front protection fastener• Screws
Packaging, weight	6.2 kg (13.7 lb.)
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)
EAN-13	4743254002814
UPC-12	845188014063
Country of origin	Estonia

Supplies and accessories:

- T197771ACC; Bluetooth Headset
- T199425ACC; Battery charger
- T911689ACC; Pouch
- T911706ACC; Car adapter 12 V
- T199588; Lens 14° + case
- T199590; Lens 42° + case
- T199589; Lens 24° + case
- T911705ACC; USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m
- T911632ACC; USB Type-C to HDMI adapter, standard specification UH311
- T911631ACC; USB 2.0 A to USB Type-C cable, 0.9 m
- T911630ACC; Power supply for camera, 15 W/3 A
- T199346ACC; Hard transport case
- T911633ACC; Power supply for battery charger
- T199330ACC; Battery
- T199557ACC; Accessory Box II
- T198583; FLIR Tools+ (download card incl. license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Imaging and optical data	
Infrared resolution	464 × 348 pixels
UltraMax (super-resolution)	In FLIR Tools
NETD	<ul style="list-style-type: none"> • <30 mK, 42° @ +30°C (+86°F) • <40 mK, 24° @ +30°C (+86°F) • <50 mK, 14° @ +30°C (+86°F)
Field of view	<ul style="list-style-type: none"> • 42° × 32° • 24° × 18° • 14° × 10°
Minimum focus distance	<ul style="list-style-type: none"> • 0.15 m (0.49 ft.), 42° • 0.15 m (0.49 ft.), 24° • 1.0 m (3.28 ft.), 14°
Minimum focus distance with MSX	<ul style="list-style-type: none"> • 0.65 m (2.13 ft.), 42° • 0.5 m (1.64 ft.), 24° • 1.0 m (3.28 ft.), 14°
Focal length	<ul style="list-style-type: none"> • 10 mm (0.39 in.), 42° • 17 mm (0.67 in.), 24° • 29 mm (1.41 in.), 14°
Spatial resolution (IFOV)	<ul style="list-style-type: none"> • 1.66 mrad/pixel, 42° • 0.90 mrad/pixel, 24° • 0.52 mrad/pixel, 14°
Lens identification	Automatic
f number	<ul style="list-style-type: none"> • 1.1, 42° • 1.3, 24° • 1.5, 14°
Image frequency	30 Hz
Focus	<ul style="list-style-type: none"> • Continuous LDM • One-shot LDM • One-shot contrast • Manual
Field of view match	Yes
Digital zoom	1–4x continuous

Detector data	
Focal plane array/spectral range	Uncooled microbolometer/7.5–14 μm
Detector pitch	17 μm

Image presentation	
Resolution	640 × 480 pixels (VGA)



FLIR E95 24° + 14° & 42°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Image presentation	
Surface brightness (cd/m ²)	400
Screen size	4 in.
Viewing angle	80°
Color depth (bits)	24
Aspect ratio	4:3
Auto-rotation	Yes
Touchscreen	Optically bonded PCAP
Display technology	IPS
Cover glass material	Dragontrail®
Programmable buttons	1
Viewfinder	No
Image adjustment	<ul style="list-style-type: none"> • Automatic • Automatic maximum • Automatic minimum • Manual

Image presentation modes	
Infrared image	Yes
Visual image	Yes
Thermal fusion	No
MSX	Yes
Picture in Picture	Resizable and movable
Gallery	Yes

Measurement		
Camera temperature range	Object temperature range	Accuracy — for ambient temperature +15 to +35°C (+59 to +95°F)
-20 to +120°C (-4 to +248°F)	-20 to +0°C (-4 to +32°F)	±2°C (±3.6°F)
	0 to +100°C (+32 to +212°F)	±2°C (±3.6°F)
	+100 to +120°C (+212 to +248°F)	±2%
0 to +650°C (+32 to +1202°F)	0 to +100°C (+32 to +212°F)	±2°C (±3.6°F)
	+100 to +650°C (+212 to +1202°F)	±2%
+300 to +1500°C (+572 to +2732°F)	+300 to +1500°C (+572 to +2732°F)	±2%

Measurement analysis	
Spotmeter	3 in live mode
Area	3 in live mode
Automatic hot/cold detection	Auto-maximum/minimum markers within area
Measurement presets	<ul style="list-style-type: none"> • No measurements • Center spot • Hot spot • Cold spot • User preset 1 • User preset 2
Difference temperature	Yes

P/N: 78506-0301

Revision

48065

Last modified

2018-03-08 13:25 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Measurement analysis	
Reference temperature	Yes
Emissivity correction	Yes: variable from 0.01 to 1.0 or selected from materials list
Measurement corrections	Yes
External optics/windows correction	Yes
Screening	0.5°C (0.9°F) accuracy @ 37°C (98.6°F) with reference

Alarm	
Color alarm (isotherm)	<ul style="list-style-type: none"> • Above • Below • Interval • Condensation (moisture/humidity/dewpoint) • Insulation
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function

Set-up	
Color palettes	<ul style="list-style-type: none"> • Iron • Gray • Rainbow • Arctic • Lava • Rainbow HC
Setup commands	Local adaptation of units, language, date and time formats
Languages	21

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Storage media	Removable memory; SD card (8 GB)
Time lapse (periodic image storage)	10 seconds to 24 hours (infrared)
Remote control operation	<ul style="list-style-type: none"> • Using FLIR Tools (using USB cable) • FLIR Tools Mobile (over Wi-Fi)
Image file format	Standard JPEG, measurement data included. Infrared-only mode

Image annotations	
Voice	60 seconds built-in microphone and speaker (and via Bluetooth) on still images and video
Text	Text from predefined list or soft keyboard on touchscreen
Visual image annotation	Yes
Image sketch	Yes: on infrared images only
Sketch	From touchscreen
METERLINK	Wireless connection (Bluetooth) to: FLIR meters with METERLINK
Compass	Yes
Laser distance meter information	Yes
Area measurement information	Yes



FLIR E95 24° + 14° & 42°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Image annotations	
GPS	Yes: location data automatically added to every still image and the first frame in video from built-in GPS

Video recording in camera	
Radiometric infrared-video recording	RTRR (.csq)
Non-radiometric infrared-video recording	H.264 to memory card
Visual video recording	H.264 to memory card

Video streaming	
Radiometric infrared-video streaming (compressed)	Yes: over UVC or RTSP (Wi-Fi)
Non-radiometric video streaming (compressed: IR, MSX, visual, Picture in Picture)	<ul style="list-style-type: none"> H.264 (AVC) over RTSP (Wi-Fi) MPEG4 over RTSP (Wi-Fi) MJPEG over UVC and RTSP (Wi-Fi)
Visual video streaming	Yes

Digital camera	
Resolution	5 MP with LED light
Focus	Fixed
Field of view	53° × 41°
Video lamp	Built-in LED light

Laser pointer	
Laser alignment	Position is automatically displayed on the infrared image
Laser distance meter	Activated by a dedicated button
Laser	Class 2, 0.05–40 m (1.6–131 ft.) ±1% of measured distance

Data communication interfaces	
Interfaces	USB 2.0, Bluetooth, Wi-Fi, DisplayPort
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (<i>ad hoc</i>) or infrastructure (network)
Audio	Microphone and speaker for voice annotation of images
USB	USB Type-C: data transfer/video/power
USB standard	USB 2.0 High Speed
Video out	DisplayPort
Video connector type	DisplayPort over USB Type-C

Power system	
Battery type	Rechargeable Li-ion battery
Battery voltage	3.6 V
Battery operating time	> 2.5 hours at 25°C (68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or two-bay charger
Charging time (using two-bay charger)	2.5 hours to 90% capacity with charging status indicated by LEDs



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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Power system	
Charging temperature	0°C to +45°C (+32°F to +113°F), except for the Korean market: +10°C to +45°C (+50°F to +113°F)
External power operation	AC adapter 90–260 V AC, 50/60 Hz, or 12 V from a vehicle (cable with standard plug—optional)
Power management	Automatic shut-down and sleep mode

Environmental data	
Operating temperature range	–15 to +50°C (5–122°F)
Storage temperature range	–40 to +70°C (–40 to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 hours/95% relative humidity 25–40°C (77–104°F)/two cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (immunity)• EN 61000-6-3 (emission)• FCC 47 CFR Part 15 Class B (emission)
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.249• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25g (IEC 60068-2-27)
Vibration	2g (IEC 60068-2-6)
Drop	Designed for 2 m (6.6 ft.)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight (including battery)	1 kg (2.2 lb.)
Size (L × W × H)	278.4 × 116.1 × 113.1 mm (11.0 × 4.6 × 4.4 in.)
Battery weight	140 g (4.9 oz.)
Battery size (L × W × H)	150 × 46 × 55 mm (5.9 × 1.8 × 2.2 in.)
Tripod mounting	UNC ¼"-20
Housing material	PCABS with TPE, magnesium
Color	Black

Warranty and service	
Warranty	http://www.flir.com/warranty/

Shipping information	
Packaging, type	Cardboard box



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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Shipping information	
Packaging, contents	<ul style="list-style-type: none"> • Extra lens, 14° • Extra lens, 42° • Battery (2 ea) • Battery charger • Hard transport case • Infrared camera with lens • Lens cap, front • Lens cap, front and rear (only for extra lenses) • Accessory Box I: <ul style="list-style-type: none"> • SD card (8 GB) • USB 2.0 A to USB Type-C cable, 1.0 m • USB Type-C to HDMI adapter, standard specification UH311 • USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m • Power supply for battery charger • Power supply, 15 W/3 A • Printed documentation • Accessory box II: <ul style="list-style-type: none"> • Hand strap • Lanyard strap, camera • Wrist strap • Lens cap strap • Front protection • Carabiner hook • Accessory box III: <ul style="list-style-type: none"> • Hand strap bracket, right • Hand strap bracket, left • Torx T10 wrench • Front protection fastener • Screws
Packaging, weight	6.4 kg (14.1 lb.)
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)
EAN-13	4743254002838
UPC-12	845188014087
Country of origin	Estonia

Supplies and accessories:

- T197771ACC; Bluetooth Headset
- T199425ACC; Battery charger
- T911689ACC; Pouch
- T911706ACC; Car adapter 12 V
- T199588; Lens 14° + case
- T199590; Lens 42° + case
- T199589; Lens 24° + case
- T911705ACC; USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m
- T911632ACC; USB Type-C to HDMI adapter, standard specification UH311
- T911631ACC; USB 2.0 A to USB Type-C cable, 0.9 m
- T911630ACC; Power supply for camera, 15 W/3 A
- T199346ACC; Hard transport case
- T911633ACC; Power supply for battery charger
- T199330ACC; Battery
- T199557ACC; Accessory Box II
- T198583; FLIR Tools+ (download card incl. license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Imaging and optical data	
Infrared resolution	464 × 348 pixels
UltraMax (super-resolution)	In FLIR Tools
NETD	<ul style="list-style-type: none"> <30 mK, 42° @ +30°C (+86°F) <40 mK, 24° @ +30°C (+86°F) <50 mK, 14° @ +30°C (+86°F)
Field of view	<ul style="list-style-type: none"> 42° × 32° 24° × 18° 14° × 10°
Minimum focus distance	<ul style="list-style-type: none"> 0.15 m (0.49 ft.), 42° 0.15 m (0.49 ft.), 24° 1.0 m (3.28 ft.), 14°
Minimum focus distance with MSX	<ul style="list-style-type: none"> 0.65 m (2.13 ft.), 42° 0.5 m (1.64 ft.), 24° 1.0 m (3.28 ft.), 14°
Focal length	<ul style="list-style-type: none"> 10 mm (0.39 in.), 42° 17 mm (0.67 in.), 24° 29 mm (1.41 in.), 14°
Spatial resolution (IFOV)	<ul style="list-style-type: none"> 1.66 mrad/pixel, 42° 0.90 mrad/pixel, 24° 0.52 mrad/pixel, 14°
Additional lenses	<ul style="list-style-type: none"> 14°
Lens identification	Automatic
f number	<ul style="list-style-type: none"> 1.1, 42° 1.3, 24° 1.5, 14°
Image frequency	30 Hz
Focus	<ul style="list-style-type: none"> Continuous LDM One-shot LDM One-shot contrast Manual
Field of view match	Yes
Digital zoom	1–4× continuous
Detector data	
Focal plane array/spectral range	Uncooled microbolometer/7.5–14 μm
Detector pitch	17 μm



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Image presentation	
Resolution	640 × 480 pixels (VGA)
Surface brightness (cd/m ²)	400
Screen size	4 in.
Viewing angle	80°
Color depth (bits)	24
Aspect ratio	4:3
Auto-rotation	Yes
Touchscreen	Optically bonded PCAP
Display technology	IPS
Cover glass material	Dragontrail®
Programmable buttons	1
Viewfinder	No
Image adjustment	<ul style="list-style-type: none"> • Automatic • Automatic maximum • Automatic minimum • Manual

Image presentation modes	
Infrared image	Yes
Visual image	Yes
Thermal fusion	No
MSX	Yes
Picture in Picture	Resizable and movable
Gallery	Yes

Measurement		
Camera temperature range	Object temperature range	Accuracy — for ambient temperature +15 to +35°C (+59 to +95°F)
-20 to +120°C (-4 to +248°F)	-20 to +0°C (-4 to +32°F)	±2°C (±3.6°F)
	0 to +100°C (+32 to +212°F)	±2°C (±3.6°F)
	+100 to +120°C (+212 to +248°F)	±2%
0 to +650°C (+32 to +1202°F)	0 to +100°C (+32 to +212°F)	±2°C (±3.6°F)
	+100 to + 650°C (+212 to +1202°F)	±2%
+300 to +1500°C (+572 to +2732°F)	+300 to +1500°C (+572 to +2732°F)	±2%

Measurement analysis	
Spotmeter	3 in live mode
Area	3 in live mode
Automatic hot/cold detection	Auto-maximum/minimum markers within area
Measurement presets	<ul style="list-style-type: none"> • No measurements • Center spot • Hot spot • Cold spot • User preset 1 • User preset 2



FLIR E95 24° + 42°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Measurement analysis	
Difference temperature	Yes
Reference temperature	Yes
Emissivity correction	Yes: variable from 0.01 to 1.0 or selected from materials list
Measurement corrections	Yes
External optics/windows correction	Yes
Screening	0,5°C (0.9°F) accuracy @ 37°C (98.6°F) with reference

Alarm	
Color alarm (isotherm)	<ul style="list-style-type: none"> • Above • Below • Interval • Condensation (moisture/humidity/dewpoint) • Insulation
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function

Set-up	
Color palettes	<ul style="list-style-type: none"> • Iron • Gray • Rainbow • Arctic • Lava • Rainbow HC
Setup commands	Local adaptation of units, language, date and time formats
Languages	21

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Storage media	Removable memory; SD card (8 GB)
Time lapse (periodic image storage)	10 seconds to 24 hours (infrared)
Remote control operation	<ul style="list-style-type: none"> • Using FLIR Tools (using USB cable) • FLIR Tools Mobile (over Wi-Fi)
Image file format	Standard JPEG, measurement data included. Infrared-only mode

Image annotations	
Voice	60 seconds built-in microphone and speaker (and via Bluetooth) on still images and video
Text	Text from predefined list or soft keyboard on touchscreen
Visual image annotation	Yes
Image sketch	Yes: on infrared images only
Sketch	From touchscreen
METERLINK	Wireless connection (Bluetooth) to: FLIR meters with METERLINK
Compass	Yes
Laser distance meter information	Yes



FLIR E95 24° + 42°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Image annotations	
Area measurement information	Yes
GPS	Yes: location data automatically added to every still image and the first frame in video from built-in GPS

Video recording in camera	
Radiometric infrared-video recording	RTRR (.csq)
Non-radiometric infrared-video recording	H.264 to memory card
Visual video recording	H.264 to memory card

Video streaming	
Radiometric infrared-video streaming (compressed)	Yes: over UVC or RTSP (Wi-Fi)
Non-radiometric video streaming (compressed: IR, MSX, visual, Picture in Picture)	<ul style="list-style-type: none"> H.264 (AVC) over RTSP (Wi-Fi) MPEG4 over RTSP (Wi-Fi) MJPEG over UVC and RTSP (Wi-Fi)
Visual video streaming	Yes

Digital camera	
Resolution	5 MP with LED light
Focus	Fixed
Field of view	53° × 41°
Video lamp	Built-in LED light

Laser pointer	
Laser alignment	Position is automatically displayed on the infrared image
Laser distance meter	Activated by a dedicated button
Laser	Class 2, 0.05–40 m (1.6–131 ft.) ±1% of measured distance

Data communication interfaces	
Interfaces	USB 2.0, Bluetooth, Wi-Fi, DisplayPort
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (<i>ad hoc</i>) or infrastructure (network)
Audio	Microphone and speaker for voice annotation of images
USB	USB Type-C: data transfer/video/power
USB standard	USB 2.0 High Speed
Video out	DisplayPort
Video connector type	DisplayPort over USB Type-C

Power system	
Battery type	Rechargeable Li-ion battery
Battery voltage	3.6 V
Battery operating time	> 2.5 hours at 25°C (68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or two-bay charger



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Website

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Customer support

<http://support.flir.com>

Power system	
Charging time (using two-bay charger)	2.5 hours to 90% capacity with charging status indicated by LEDs
Charging temperature	0°C to +45°C (+32°F to +113°F), except for the Korean market: +10°C to +45°C (+50°F to +113°F)
External power operation	AC adapter 90–260 V AC, 50/60 Hz, or 12 V from a vehicle (cable with standard plug—optional)
Power management	Automatic shut-down and sleep mode

Environmental data	
Operating temperature range	–15 to +50°C (5–122°F)
Storage temperature range	–40 to +70°C (–40 to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 hours/95% relative humidity 25–40°C (77–104°F)/two cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (immunity)• EN 61000-6-3 (emission)• FCC 47 CFR Part 15 Class B (emission)
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.249• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25g (IEC 60068-2-27)
Vibration	2g (IEC 60068-2-6)
Drop	Designed for 2 m (6.6 ft.)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight (including battery)	1 kg (2.2 lb.)
Size (L × W × H)	278.4 × 116.1 × 113.1 mm (11.0 × 4.6 × 4.4 in.)
Battery weight	140 g (4.9 oz.)
Battery size (L × W × H)	150 × 46 × 55 mm (5.9 × 1.8 × 2.2 in.)
Tripod mounting	UNC ¼"-20
Housing material	PCABS with TPE, magnesium
Color	Black

Warranty and service	
Warranty	http://www.flir.com/warranty/

Shipping information	
Packaging, type	Cardboard box

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Website

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Customer support

<http://support.flir.com>

Shipping information	
Packaging, contents	<ul style="list-style-type: none"> • Extra lens, 42° • Battery (2 ea) • Battery charger • Hard transport case • Infrared camera with lens • Lens cap, front • Lens cap, front and rear (only for extra lenses) • Accessory Box I: <ul style="list-style-type: none"> • SD card (8 GB) • USB 2.0 A to USB Type-C cable, 1.0 m • USB Type-C to HDMI adapter, standard specification UH311 • USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m • Power supply for battery charger • Power supply, 15 W/3 A • Printed documentation • Accessory box II: <ul style="list-style-type: none"> • Hand strap • Lanyard strap, camera • Wrist strap • Lens cap strap • Front protection • Carabiner hook • Accessory box III: <ul style="list-style-type: none"> • Hand strap bracket, right • Hand strap bracket, left • Torx T10 wrench • Front protection fastener • Screws
Packaging, weight	6.2 kg (13.7 lb.)
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)
EAN-13	4743254002821
UPC-12	845188014070
Country of origin	Estonia

Supplies & accessories:

- T197771ACC; Bluetooth Headset
- T199425ACC; Battery charger
- T911689ACC; Pouch
- T911706ACC; Car adapter 12 V
- T199588; Lens 14° + case
- T199590; Lens 42° + case
- T199589; Lens 24° + case
- T911705ACC; USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m
- T911632ACC; USB Type-C to HDMI adapter, standard specification UH311
- T911631ACC; USB 2.0 A to USB Type-C cable, 0.9 m
- T911630ACC; Power supply for camera, 15 W/3 A
- T199346ACC; Hard transport case
- T911633ACC; Power supply for battery charger
- T199330ACC; Battery
- T199557ACC; Accessory Box II
- T198583; FLIR Tools+ (download card incl. license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Imaging and optical data	
Infrared resolution	464 × 348 pixels
UltraMax (super-resolution)	In FLIR Tools
NETD	<ul style="list-style-type: none"> • <30 mK, 42° @ +30°C (+86°F) • <40 mK, 24° @ +30°C (+86°F) • <50 mK, 14° @ +30°C (+86°F)
Field of view	<ul style="list-style-type: none"> • 42° × 32° • 24° × 18° • 14° × 10°
Minimum focus distance	<ul style="list-style-type: none"> • 0.15 m (0.49 ft.), 42° • 0.15 m (0.49 ft.), 24° • 1.0 m (3.28 ft.), 14°
Minimum focus distance with MSX	<ul style="list-style-type: none"> • 0.65 m (2.13 ft.), 42° • 0.5 m (1.64 ft.), 24° • 1.0 m (3.28 ft.), 14°
Focal length	<ul style="list-style-type: none"> • 10 mm (0.39 in.), 42° • 17 mm (0.67 in.), 24° • 29 mm (1.41 in.), 14°
Spatial resolution (IFOV)	<ul style="list-style-type: none"> • 1.66 mrad/pixel, 42° • 0.90 mrad/pixel, 24° • 0.52 mrad/pixel, 14°
Additional lenses	<ul style="list-style-type: none"> • 24° • 14°
Lens identification	Automatic
f number	<ul style="list-style-type: none"> • 1.1, 42° • 1.3, 24° • 1.5, 14°
Image frequency	30 Hz
Focus	<ul style="list-style-type: none"> • Continuous LDM • One-shot LDM • One-shot contrast • Manual
Field of view match	Yes
Digital zoom	1–4x continuous
Detector data	
Focal plane array/spectral range	Uncooled microbolometer/7.5–14 μm
Detector pitch	17 μm



FLIR E95 42°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Image presentation	
Resolution	640 × 480 pixels (VGA)
Surface brightness (cd/m ²)	400
Screen size	4 in.
Viewing angle	80°
Color depth (bits)	24
Aspect ratio	4:3
Auto-rotation	Yes
Touchscreen	Optically bonded PCAP
Display technology	IPS
Cover glass material	Dragontrail®
Programmable buttons	1
Viewfinder	No
Image adjustment	<ul style="list-style-type: none"> • Automatic • Automatic maximum • Automatic minimum • Manual

Image presentation modes	
Infrared image	Yes
Visual image	Yes
Thermal fusion	No
MSX	Yes
Picture in Picture	Resizable and movable
Gallery	Yes

Measurement		
Camera temperature range	Object temperature range	Accuracy — for ambient temperature +15 to +35°C (+59 to +95°F)
-20 to +120°C (-4 to +248°F)	-20 to +0°C (-4 to +32°F)	±2°C (±3.6°F)
	0 to +100°C (+32 to +212°F)	±2°C (±3.6°F)
	+100 to +120°C (+212 to +248°F)	±2%
0 to +650°C (+32 to +1202°F)	0 to +100°C (+32 to +212°F)	±2°C (±3.6°F)
	+100 to +650°C (+212 to +1202°F)	±2%
+300 to +1500°C (+572 to +2732°F)	+300 to +1500°C (+572 to +2732°F)	±2%

Measurement analysis	
Spotmeter	3 in live mode
Area	3 in live mode
Automatic hot/cold detection	Auto-maximum/minimum markers within area
Measurement presets	<ul style="list-style-type: none"> • No measurements • Center spot • Hot spot • Cold spot • User preset 1 • User preset 2



FLIR E95 42°

P/N: 78503-0301

Revision

48067

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2018-03-08 13:28 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Measurement analysis	
Difference temperature	Yes
Reference temperature	Yes
Emissivity correction	Yes: variable from 0.01 to 1.0 or selected from materials list
Measurement corrections	Yes
External optics/windows correction	Yes
Screening	0.5°C (0.9°F) accuracy @ 37°C (98.6°F) with reference

Alarm	
Color alarm (isotherm)	<ul style="list-style-type: none"> Above Below Interval Condensation (moisture/humidity/dewpoint) Insulation
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function

Set-up	
Color palettes	<ul style="list-style-type: none"> Iron Gray Rainbow Arctic Lava Rainbow HC
Setup commands	Local adaptation of units, language, date and time formats
Languages	21

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Storage media	Removable memory; SD card (8 GB)
Time lapse (periodic image storage)	10 seconds to 24 hours (infrared)
Remote control operation	<ul style="list-style-type: none"> Using FLIR Tools (using USB cable) FLIR Tools Mobile (over Wi-Fi)
Image file format	Standard JPEG, measurement data included. Infrared-only mode

Image annotations	
Voice	60 seconds built-in microphone and speaker (and via Bluetooth) on still images and video
Text	Text from predefined list or soft keyboard on touchscreen
Visual image annotation	Yes
Image sketch	Yes: on infrared images only
Sketch	From touchscreen
METERLINK	Wireless connection (Bluetooth) to: FLIR meters with METERLINK
Compass	Yes
Laser distance meter information	Yes



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Image annotations	
Area measurement information	Yes
GPS	Yes: location data automatically added to every still image and the first frame in video from built-in GPS

Video recording in camera	
Radiometric infrared-video recording	RTRR (.csq)
Non-radiometric infrared-video recording	H.264 to memory card
Visual video recording	H.264 to memory card

Video streaming	
Radiometric infrared-video streaming (compressed)	Yes: over UVC or RTSP (Wi-Fi)
Non-radiometric video streaming (compressed: IR, MSX, visual, Picture in Picture)	<ul style="list-style-type: none">• H.264 (AVC) over RTSP (Wi-Fi)• MPEG4 over RTSP (Wi-Fi)• MJPEG over UVC and RTSP (Wi-Fi)
Visual video streaming	Yes

Digital camera	
Resolution	5 MP with LED light
Focus	Fixed
Field of view	53° × 41°
Video lamp	Built-in LED light

Laser pointer	
Laser alignment	Position is automatically displayed on the infrared image
Laser distance meter	Activated by a dedicated button
Laser	Class 2, 0.05–40 m (1.6–131 ft.) ±1% of measured distance

Data communication interfaces	
Interfaces	USB 2.0, Bluetooth, Wi-Fi, DisplayPort
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (<i>ad hoc</i>) or infrastructure (network)
Audio	Microphone and speaker for voice annotation of images
USB	USB Type-C: data transfer/video/power
USB standard	USB 2.0 High Speed
Video out	DisplayPort
Video connector type	DisplayPort over USB Type-C

Power system	
Battery type	Rechargeable Li-ion battery
Battery voltage	3.6 V
Battery operating time	> 2.5 hours at 25°C (68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or two-bay charger



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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Power system	
Charging time (using two-bay charger)	2.5 hours to 90% capacity with charging status indicated by LEDs
Charging temperature	0°C to +45°C (+32°F to +113°F), except for the Korean market: +10°C to +45°C (+50°F to +113°F)
External power operation	AC adapter 90–260 V AC, 50/60 Hz, or 12 V from a vehicle (cable with standard plug—optional)
Power management	Automatic shut-down and sleep mode

Environmental data	
Operating temperature range	–15 to +50°C (5–122°F)
Storage temperature range	–40 to +70°C (–40 to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 hours/95% relative humidity 25–40°C (77–104°F)/two cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (immunity)• EN 61000-6-3 (emission)• FCC 47 CFR Part 15 Class B (emission)
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.249• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25g (IEC 60068-2-27)
Vibration	2g (IEC 60068-2-6)
Drop	Designed for 2 m (6.6 ft.)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight (including battery)	1 kg (2.2 lb.)
Size (L × W × H)	278.4 × 116.1 × 113.1 mm (11.0 × 4.6 × 4.4 in.)
Battery weight	140 g (4.9 oz.)
Battery size (L × W × H)	150 × 46 × 55 mm (5.9 × 1.8 × 2.2 in.)
Tripod mounting	UNC ¼"-20
Housing material	PCABS with TPE, magnesium
Color	Black

Warranty and service	
Warranty	http://www.flir.com/warranty/

Shipping information	
Packaging, type	Cardboard box



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Website

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Customer support

<http://support.flir.com>

Shipping information	
Packaging, contents	<ul style="list-style-type: none">• Battery (2 ea)• Battery charger• Hard transport case• Infrared camera with lens• Lens cap, front• Lens cap, front and rear (only for extra lenses)• Accessory Box I:<ul style="list-style-type: none">• SD card (8 GB)• USB 2.0 A to USB Type-C cable, 1.0 m• USB Type-C to HDMI adapter, standard specification UH311• USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m• Power supply for battery charger• Power supply, 15 W/3 A• Printed documentation• Accessory box II:<ul style="list-style-type: none">• Hand strap• Lanyard strap, camera• Wrist strap• Lens cap strap• Front protection• Carabiner hook• Accessory box III:<ul style="list-style-type: none">• Hand strap bracket, right• Hand strap bracket, left• Torx T10 wrench• Front protection fastener• Screws
Packaging, weight	5.8 kg (12.8 lb.)
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)
EAN-13	4743254002708
UPC-12	845188013936
Country of origin	Estonia

Supplies & accessories:

- T197771ACC; Bluetooth Headset
- T199425ACC; Battery charger
- T911689ACC; Pouch
- T911706ACC; Car adapter 12 V
- T199588; Lens 14° + case
- T199590; Lens 42° + case
- T199589; Lens 24° + case
- T911705ACC; USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m
- T911632ACC; USB Type-C to HDMI adapter, standard specification UH311
- T911631ACC; USB 2.0 A to USB Type-C cable, 0.9 m
- T911630ACC; Power supply for camera, 15 W/3 A
- T199346ACC; Hard transport case
- T911633ACC; Power supply for battery charger
- T199330ACC; Battery
- T199557ACC; Accessory Box II
- T198583; FLIR Tools+ (download card incl. license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)

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Website

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Customer support

<http://support.flir.com>



Imaging and optical data	
Infrared resolution	464 × 348 pixels
UltraMax (super-resolution)	In FLIR Tools
NETD	<ul style="list-style-type: none"> • <30 mK, 42° @ +30°C (+86°F) • <40 mK, 24° @ +30°C (+86°F) • <50 mK, 14° @ +30°C (+86°F)
Field of view	<ul style="list-style-type: none"> • 42° × 32° • 24° × 18° • 14° × 10°
Minimum focus distance	<ul style="list-style-type: none"> • 0.15 m (0.49 ft.), 42° • 0.15 m (0.49 ft.), 24° • 1.0 m (3.28 ft.), 14°
Minimum focus distance with MSX	<ul style="list-style-type: none"> • 0.65 m (2.13 ft.), 42° • 0.5 m (1.64 ft.), 24° • 1.0 m (3.28 ft.), 14°
Focal length	<ul style="list-style-type: none"> • 10 mm (0.39 in.), 42° • 17 mm (0.67 in.), 24° • 29 mm (1.41 in.), 14°
Spatial resolution (IFOV)	<ul style="list-style-type: none"> • 1.66 mrad/pixel, 42° • 0.90 mrad/pixel, 24° • 0.52 mrad/pixel, 14°
Additional lenses	<ul style="list-style-type: none"> • 24°
Lens identification	Automatic
f number	<ul style="list-style-type: none"> • 1.1, 42° • 1.3, 24° • 1.5, 14°
Image frequency	30 Hz
Focus	<ul style="list-style-type: none"> • Continuous LDM • One-shot LDM • One-shot contrast • Manual
Field of view match	Yes
Digital zoom	1–4× continuous
Detector data	
Focal plane array/spectral range	Uncooled microbolometer/7.5–14 μm
Detector pitch	17 μm



FLIR E95 42° + 14°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Image presentation	
Resolution	640 × 480 pixels (VGA)
Surface brightness (cd/m ²)	400
Screen size	4 in.
Viewing angle	80°
Color depth (bits)	24
Aspect ratio	4:3
Auto-rotation	Yes
Touchscreen	Optically bonded PCAP
Display technology	IPS
Cover glass material	Dragontrail®
Programmable buttons	1
Viewfinder	No
Image adjustment	<ul style="list-style-type: none"> • Automatic • Automatic maximum • Automatic minimum • Manual

Image presentation modes	
Infrared image	Yes
Visual image	Yes
Thermal fusion	No
MSX	Yes
Picture in Picture	Resizable and movable
Gallery	Yes

Measurement		
Camera temperature range	Object temperature range	Accuracy — for ambient temperature +15 to +35°C (+59 to +95°F)
-20 to +120°C (-4 to +248°F)	-20 to +0°C (-4 to +32°F)	±2°C (±3.6°F)
	0 to +100°C (+32 to +212°F)	±2°C (±3.6°F)
	+100 to +120°C (+212 to +248°F)	±2%
0 to +650°C (+32 to +1202°F)	0 to +100°C (+32 to +212°F)	±2°C (±3.6°F)
	+100 to +650°C (+212 to +1202°F)	±2%
+300 to +1500°C (+572 to +2732°F)	+300 to +1500°C (+572 to +2732°F)	±2%

Measurement analysis	
Spotmeter	3 in live mode
Area	3 in live mode
Automatic hot/cold detection	Auto-maximum/minimum markers within area
Measurement presets	<ul style="list-style-type: none"> • No measurements • Center spot • Hot spot • Cold spot • User preset 1 • User preset 2



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Measurement analysis	
Difference temperature	Yes
Reference temperature	Yes
Emissivity correction	Yes: variable from 0.01 to 1.0 or selected from materials list
Measurement corrections	Yes
External optics/windows correction	Yes
Screening	0.5°C (0.9°F) accuracy @ 37°C (98.6°F) with reference

Alarm	
Color alarm (isotherm)	<ul style="list-style-type: none"> Above Below Interval Condensation (moisture/humidity/dewpoint) Insulation
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function

Set-up	
Color palettes	<ul style="list-style-type: none"> Iron Gray Rainbow Arctic Lava Rainbow HC
Setup commands	Local adaptation of units, language, date and time formats
Languages	21

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Storage media	Removable memory; SD card (8 GB)
Time lapse (periodic image storage)	10 seconds to 24 hours (infrared)
Remote control operation	<ul style="list-style-type: none"> Using FLIR Tools (using USB cable) FLIR Tools Mobile (over Wi-Fi)
Image file format	Standard JPEG, measurement data included. Infrared-only mode

Image annotations	
Voice	60 seconds built-in microphone and speaker (and via Bluetooth) on still images and video
Text	Text from predefined list or soft keyboard on touchscreen
Visual image annotation	Yes
Image sketch	Yes: on infrared images only
Sketch	From touchscreen
METERLINK	Wireless connection (Bluetooth) to: FLIR meters with METERLINK
Compass	Yes
Laser distance meter information	Yes



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Image annotations	
Area measurement information	Yes
GPS	Yes: location data automatically added to every still image and the first frame in video from built-in GPS

Video recording in camera	
Radiometric infrared-video recording	RTRR (.csq)
Non-radiometric infrared-video recording	H.264 to memory card
Visual video recording	H.264 to memory card

Video streaming	
Radiometric infrared-video streaming (compressed)	Yes: over UVC or RTSP (Wi-Fi)
Non-radiometric video streaming (compressed: IR, MSX, visual, Picture in Picture)	<ul style="list-style-type: none">• H.264 (AVC) over RTSP (Wi-Fi)• MPEG4 over RTSP (Wi-Fi)• MJPEG over UVC and RTSP (Wi-Fi)
Visual video streaming	Yes

Digital camera	
Resolution	5 MP with LED light
Focus	Fixed
Field of view	53° × 41°
Video lamp	Built-in LED light

Laser pointer	
Laser alignment	Position is automatically displayed on the infrared image
Laser distance meter	Activated by a dedicated button
Laser	Class 2, 0.05–40 m (1.6–131 ft.) ±1% of measured distance

Data communication interfaces	
Interfaces	USB 2.0, Bluetooth, Wi-Fi, DisplayPort
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (<i>ad hoc</i>) or infrastructure (network)
Audio	Microphone and speaker for voice annotation of images
USB	USB Type-C: data transfer/video/power
USB standard	USB 2.0 High Speed
Video out	DisplayPort
Video connector type	DisplayPort over USB Type-C

Power system	
Battery type	Rechargeable Li-ion battery
Battery voltage	3.6 V
Battery operating time	> 2.5 hours at 25°C (68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or two-bay charger



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Power system	
Charging time (using two-bay charger)	2.5 hours to 90% capacity with charging status indicated by LEDs
Charging temperature	0°C to +45°C (+32°F to +113°F), except for the Korean market: +10°C to +45°C (+50°F to +113°F)
External power operation	AC adapter 90–260 V AC, 50/60 Hz, or 12 V from a vehicle (cable with standard plug—optional)
Power management	Automatic shut-down and sleep mode

Environmental data	
Operating temperature range	–15 to +50°C (5–122°F)
Storage temperature range	–40 to +70°C (–40 to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 hours/95% relative humidity 25–40°C (77–104°F)/two cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (immunity)• EN 61000-6-3 (emission)• FCC 47 CFR Part 15 Class B (emission)
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.249• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25g (IEC 60068-2-27)
Vibration	2g (IEC 60068-2-6)
Drop	Designed for 2 m (6.6 ft.)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight (including battery)	1 kg (2.2 lb.)
Size (L × W × H)	278.4 × 116.1 × 113.1 mm (11.0 × 4.6 × 4.4 in.)
Battery weight	140 g (4.9 oz.)
Battery size (L × W × H)	150 × 46 × 55 mm (5.9 × 1.8 × 2.2 in.)
Tripod mounting	UNC ¼"-20
Housing material	PCABS with TPE, magnesium
Color	Black

Warranty and service	
Warranty	http://www.flir.com/warranty/

Shipping information	
Packaging, type	Cardboard box

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Shipping information	
Packaging, contents	<ul style="list-style-type: none"> • Extra lens, 14° • Battery (2 ea) • Battery charger • Hard transport case • Infrared camera with lens • Lens cap, front • Lens cap, front and rear (only for extra lenses) • Accessory Box I: <ul style="list-style-type: none"> • SD card (8 GB) • USB 2.0 A to USB Type-C cable, 1.0 m • USB Type-C to HDMI adapter, standard specification UH311 • USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m • Power supply for battery charger • Power supply, 15 W/3 A • Printed documentation • Accessory box II: <ul style="list-style-type: none"> • Hand strap • Lanyard strap, camera • Wrist strap • Lens cap strap • Front protection • Carabiner hook • Accessory box III: <ul style="list-style-type: none"> • Hand strap bracket, right • Hand strap bracket, left • Torx T10 wrench • Front protection fastener • Screws
Packaging, weight	
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)
EAN-13	4743254003347
UPC-12	845188014759
Country of origin	Estonia

Supplies & accessories:

- T197771ACC; Bluetooth Headset
- T911689ACC; Pouch
- T198583; FLIR Tools+ (download card incl. license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)

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FLIR G3xx a series

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P/N: 71502-0101

Revision

40634

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2017-02-28 09:01 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

The FLIR G300 a is a bare infrared camera unit for optical gas imaging (OGI) that visualizes and pinpoints leaks of volatile organic compounds (VOCs), without the need to shut down the operation. The FLIR G300 a is used in industrial settings such as oil refineries, natural gas processing plants, offshore platforms, chemical/petrochemical industries, and biogas and power generation plants.

The camera unit is delivered as a bare unit, and is intended for integration in OEM systems.

Benefits

- **Improved efficiency:** The FLIR G300 a reduces revenue loss by pinpointing even small gas leaks quickly and efficiently, and from a distance. It also reduces the inspection time by allowing a broad area to be scanned rapidly and without the need to interrupt the industrial process.
- **Increased worker safety:** OGI allows gas leaks to be detected in a non-contact mode and from a safe distance. This reduces the risk of the user being exposed to invisible and potentially harmful or explosive chemicals. With a FLIR G300 a gas imaging camera unit it is easy to scan areas of interest that are difficult to reach with conventional methods.
- **Protecting the environment:** Several VOCs are dangerous to human health or cause harm to the environment, and are usually governed by regulations. Even small leaks can be detected and documented using the FLIR G300 a.

Detects the following gases: benzene, ethanol, ethylbenzene, heptane, hexane, isoprene, methanol, methyl ethyl ketone, MIBK, octane, pentane, 1-pentene, toluene, *m*-xylene, ethane, butane, methane, propane, ethylene, propylene.

Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<15 mK @ +30°C (+86°F)
Field of view (FOV)	14.5° × 10.8°
Minimum focus distance	0.5 m (1.64 ft.)
Focal length	38 mm (1.49 in.)
F-number	1.5
Focus	Automatic using FLIR SDK, or manual
Zoom	1–8× continuous, digital zoom
Digital image enhancement	Noise reduction filter, high sensitivity mode (HSM)

Detector data

Detector type	Focal plane array (FPA), cooled InSb
Spectral range	3.2–3.4 μm
Sensor cooling	Stirling Microcooler (FLIR MC-3)
MTBF	2 years or 15,000 hours (whichever is greatest), for a camera running 24/7 @ +20°C (+68°F)
Detects following gases	Benzene, ethanol, ethylbenzene, heptane, hexane, isoprene, methanol, methyl ethyl ketone, MIBK, octane, pentane, 1-pentene, toluene, <i>m</i> -xylene, ethane, butane, methane, propane, ethylene, propylene



FLIR G300 a 14.5° fixed lens

P/N: 71502-0101

Revision

40634

Last modified

2017-02-28 09:01 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Electronics and data rate	
Full frame rate	60 Hz

Image presentation	
Automatic image adjustment	Continuous/manual; linear or histogram based
Manual image adjustment	Level/span

Image presentation modes	
Image modes	IR image, high sensitivity mode (HSM)

Temperature ranges	
Temperature range	-20°C to +350°C (-4°F to +662°F)

Video streaming	
Non-radiometric IR video streaming	RTP/MPEG4

Data communication interfaces	
Interfaces	<ul style="list-style-type: none">HDMIEthernet

USB	
USB	Control and image
USB, standard	2.0 High Speed
USB, connector type	USB micro
USB, communication	TCP/IP socket-based, Microsoft RNDIS or/and USB video class
USB, video streaming	640 × 480 pixels at 30 Hz (using USB video class)
USB, image streaming	16-bit 320 × 240 at 30 Hz (using USB video class)
USB, protocols	TCP, UDP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, DHCP

Ethernet	
Ethernet	Control, result and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary
Ethernet, video streaming	640 × 480 pixels at up to 15 Hz MPEG-4, ISO/IEC 14496-1 MPEG-4 ASP@L5
Ethernet, image streaming	16-bit 320 × 240 pixels at up to 10 Hz
Ethernet, protocols	TCP, UDP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, DHCP, MDNS (Bonjour), SMB/CIFS

Composite video	
Video out	Digital video output (image)

Power system	
DC operation	10–28 V DC, polarity protected



FLIR G300 a 14.5° fixed lens

P/N: 71502-0101

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Power system	
Power	<ul style="list-style-type: none">• Max. power cooling down @12 V: 13 W• Steady state @12 V: 9 W
Start-up time	Typically 7 min. @ 25°C (+77°F)

Environmental data	
Operating temperature range	-20°C to +50°C (-4°F to +122°F)
Storage temperature range	-30°C to +60°C (-22°F to +140°F)
Humidity (operating and storage)	IEC 68-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) (2 cycles)
Directives	<ul style="list-style-type: none">• Low voltage directive: 2006/95/EC• EMC: 2004/108/EC• RoHS: 2002/95/EC• WEEE: 2002/96/EC
EMC	<ul style="list-style-type: none">• EN61000-6-4 (Emission)• EN61000-6-2 (Immunity)• FCC 47 CFR Part 15 class A (Emission)• EN 61 000-4-8, L5
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	1.4 kg (3.1 lb.), incl. 14.5° lens
Cameras size, incl. lens (L x W x H)	242 x 80 x 105 mm (9.5 x 3.1 x 4.1 in.), incl. 14.5° lens
Housing material	Aluminum

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera• Ethernet cable• FLIR ThermoVision SDK (license only)• FLIR VideoReport CD-ROM• Lens cap• Power supply• Printed documentation• USB cable• Video cable
Packaging, weight	
Packaging, size	
EAN-13	7332558008409
UPC-12	845188008758
Country of origin	Sweden

Supplies & accessories:

- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

P/N: 71502-0102

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Website

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General description

The FLIR G300 a is a bare infrared camera unit for optical gas imaging (OGI) that visualizes and pinpoints leaks of volatile organic compounds (VOCs), without the need to shut down the operation. The FLIR G300 a is used in industrial settings such as oil refineries, natural gas processing plants, offshore platforms, chemical/petrochemical industries, and biogas and power generation plants.

The camera unit is delivered as a bare unit, and is intended for integration in OEM systems.

Benefits

- **Improved efficiency:** The FLIR G300 a reduces revenue loss by pinpointing even small gas leaks quickly and efficiently, and from a distance. It also reduces the inspection time by allowing a broad area to be scanned rapidly and without the need to interrupt the industrial process.
- **Increased worker safety:** OGI allows gas leaks to be detected in a non-contact mode and from a safe distance. This reduces the risk of the user being exposed to invisible and potentially harmful or explosive chemicals. With a FLIR G300 a gas imaging camera unit it is easy to scan areas of interest that are difficult to reach with conventional methods.
- **Protecting the environment:** Several VOCs are dangerous to human health or cause harm to the environment, and are usually governed by regulations. Even small leaks can be detected and documented using the FLIR G300 a.

Detects the following gases: benzene, ethanol, ethylbenzene, heptane, hexane, isoprene, methanol, methyl ethyl ketone, MIBK, octane, pentane, 1-pentene, toluene, *m*-xylene, ethane, butane, methane, propane, ethylene, propylene.

Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<15 mK @ +30°C (+86°F)
Field of view (FOV)	24° × 18°
Minimum focus distance	0.3 m (1.0 ft.)
Focal length	23 mm (0.89 in.)
F-number	1.5
Focus	Automatic using FLIR SDK, or manual
Zoom	1–8× continuous, digital zoom
Digital image enhancement	Noise reduction filter, high sensitivity mode (HSM)

Detector data

Detector type	Focal plane array (FPA), cooled InSb
Spectral range	3.2–3.4 μm
Sensor cooling	Stirling Microcooler (FLIR MC-3)
MTBF	2 years or 15,000 hours (whichever is greatest), for a camera running 24/7 @ +20°C (+68°F)
Detects following gases	Benzene, ethanol, ethylbenzene, heptane, hexane, isoprene, methanol, methyl ethyl ketone, MIBK, octane, pentane, 1-pentene, toluene, <i>m</i> -xylene, ethane, butane, methane, propane, ethylene, propylene



FLIR G300 a 24° fixed lens

P/N: 71502-0102

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Electronics and data rate	
Full frame rate	60 Hz

Image presentation	
Automatic image adjustment	Continuous/manual; linear or histogram based
Manual image adjustment	Level/span

Image presentation modes	
Image modes	IR image, high sensitivity mode (HSM)

Temperature ranges	
Temperature range	-20°C to +350°C (-4°F to +662°F)

Video streaming	
Non-radiometric IR video streaming	RTP/MPEG4

Data communication interfaces	
Interfaces	<ul style="list-style-type: none">HDMIEthernet

USB	
USB	Control and image
USB, standard	2.0 High Speed
USB, connector type	USB micro
USB, communication	TCP/IP socket-based, Microsoft RNDIS or/and USB video class
USB, video streaming	640 × 480 pixels at 30 Hz (using USB video class)
USB, image streaming	16-bit 320 × 240 at 30 Hz (using USB video class)
USB, protocols	TCP, UDP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, DHCP

Ethernet	
Ethernet	Control, result and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary
Ethernet, video streaming	640 × 480 pixels at up to 15 Hz MPEG-4, ISO/IEC 14496-1 MPEG-4 ASP@L5
Ethernet, image streaming	16-bit 320 × 240 pixels at up to 10 Hz
Ethernet, protocols	TCP, UDP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, DHCP, MDNS (Bonjour), SMB/CIFS

Composite video	
Video out	Digital video output (image)

Power system	
DC operation	10–28 V DC, polarity protected



FLIR G300 a 24° fixed lens

P/N: 71502-0102

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Power system	
Power	<ul style="list-style-type: none">• Max. power cooling down @12 V: 13 W• Steady state @12 V: 9 W
Start-up time	Typically 7 min. @ 25°C (+77°F)

Environmental data	
Operating temperature range	-20°C to +50°C (-4°F to +122°F)
Storage temperature range	-30°C to +60°C (-22°F to +140°F)
Humidity (operating and storage)	IEC 68-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) (2 cycles)
Directives	<ul style="list-style-type: none">• Low voltage directive: 2006/95/EC• EMC: 2004/108/EC• RoHS: 2002/95/EC• WEEE: 2002/96/EC
EMC	<ul style="list-style-type: none">• EN61000-6-4 (Emission)• EN61000-6-2 (Immunity)• FCC 47 CFR Part 15 class A (Emission)• EN 61 000-4-8, L5
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	1.4 kg (3.1 lb.), incl. 24° lens
Cameras size, incl. lens (L x W x H)	242 x 80 x 105 mm (9.5 x 3.1 x 4.1 in.), incl. 24° lens
Housing material	Aluminum

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera• Ethernet cable• FLIR ThermoVision SDK (license only)• FLIR VideoReport CD-ROM• Lens cap• Power supply• Printed documentation• USB cable• Video cable
Packaging, weight	
Packaging, size	
EAN-13	7332558008416
UPC-12	845188008765
Country of origin	Sweden

Supplies & accessories:

- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

FLIR G3xx pt series

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P/N: 65502-0101

Revision

35207

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

The FLIR G300 pt is a pan/tilt infrared camera for optical gas imaging (OGI) that visualizes and pinpoints leaks of volatile organic compounds (VOCs) without the need to shut down the operation. The FLIR G300 pt is used in industrial settings such as oil refineries, natural gas processing plants, offshore platforms, chemical/petrochemical industries, and biogas and power generation plants.

The FLIR G300 pt precision pan/tilt mechanism gives operators accurate directional control while providing fully programmable scan patterns, radar slew-to-cue, and slew-to-alarm functionality.

Key features

- H.264, MPEG-4, and MJPEG streaming.
- Built-in web server.
- 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.).
- Composite video output.
- Precise pan/tilt mechanism.
- Daylight camera.
- IP66 encapsulation.
- IP control: The FLIR G300 pt can be integrated into any existing TCP/IP network and controlled with a PC.
- Serial control interface: Pelco D or Bosch commands can be used over RS-232, RS-422, or RS-485 to remotely control a FLIR G300 pt camera.
- Multi-camera software: FLIR Sensors Manager allows users to manage and control a FLIR G300 pt in a TCP/IP network.

Benefits

- Improved efficiency: The FLIR G300 pt reduces revenue loss by pinpointing even small gas leaks quickly and efficiently, and from a distance. It also reduces the inspection time by allowing a broad area to be scanned rapidly and without the need to interrupt the industrial process.
- Increased worker safety: OGI allows gas leaks to be detected in a non-contact mode and from a safe distance. This reduces the risk of the user being exposed to invisible and potentially harmful or explosive chemicals. With a G300 pt gas imaging camera unit it is easy to scan areas of interest that are difficult to reach with conventional methods.
- Protecting the environment: Several VOCs are dangerous to human health or cause harm to the environment, and are usually governed by regulations. Even small leaks can be detected and documented using the FLIR G300 pt.

Detects the following gases: benzene, ethanol, ethylbenzene, heptane, hexane, isoprene, methanol, methyl ethyl ketone, MIBK, octane, pentane, 1-pentene, toluene, *m*-xylene, ethane, butane, methane, propane, ethylene, propylene.

Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<15 mK @ +30°C (+86°F)
Field of view (FOV)	14.5° × 10.8°
Minimum focus distance	0.5 m (1.64 ft.)
Focal length	38 mm (1.49 in.)
F-number	1.5
Focus	Automatic using FLIR SDK, or manual
Zoom	1–8× continuous, digital zoom
Digital image enhancement	Noise reduction filter, high sensitivity mode (HSM)

Detector data

Detector type	Focal plane array (FPA), cooled InSb
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FLIR G300 pt 14.5° NTSC

P/N: 65502-0101

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Website

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Customer support

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Detector data	
Spectral range	3.2–3.4 μm
Sensor cooling	Stirling Microcooler (FLIR MC-3)
MTBF	2 years or 15,000 hours (whichever is greatest), for a camera running 24/7 @ +20°C (+68°F)
Detects following gases	Benzene, ethanol, ethylbenzene, heptane, hexane, isoprene, methanol, methyl ethyl ketone, MIBK, octane, pentane, 1-pentene, toluene, m-xylene, ethane, butane, methane, propane, ethylene, propylene

Imaging and optical data (visual camera)	
Field of view (FOV)	57.8° (H) to 1.7° (H)
Focal length	3.4 mm (wide) to 122.4 mm (tele)
F-number	1.6 to 4.5
Focus	Automatic or manual (built in motor)
Optical Zoom	36x continuous
Electronic Zoom	12x continuous, digital, interpolating

Detector data (visual camera)	
Focal plane array (FPA)	1/4" Exview HAD CCD
Effective pixels	380,000

Technical specification (pan & tilt)	
Azimuth Range	Az velocity 360° continuous, 0.1 to 60°/sec max
Elevation Range	EI velocity $\pm 45^\circ$, 0.1 to 30°/sec. max
Programmable presets	128
Automatic heaters	Clears window from ice. Switched on at +4°C (39°F). Switched off at +15°C (59°F).

Ethernet	
Ethernet	Control, result and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary
Ethernet, video streaming	Two independent channels for each camera - MPEG-4, H.264, or M-JPEG
Ethernet, protocols	TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Composite video	
Video out	Composite video output, NTSC compatible
Video, standard	CVBS (SMPTE 170M NTSC)

Power system	
Power	24 VAC (21–30 VAC; 24 VAC: 215 VA max. with heater) or 24 VDC (21–30 VDC; 24 VDC: 200 W max. with heater)



FLIR G300 pt 14.5° NTSC

P/N: 65502-0101

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Environmental data	
Operating temperature range	-40°C to +50°C (-40°F to +122°F)
Storage temperature range	-40°C to +60°C (-40°F to +140°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
Directives	<ul style="list-style-type: none">• Low voltage directive: 2006/95/EC• EMC: 2004/108/EC• RoHS: 2002/95/EC• WEEE: 2002/96/EC
EMC	<ul style="list-style-type: none">• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• EN 61 000-4-8, L5
Encapsulation	IP 66 (IEC 60529)
Bump	5 g, 11 ms (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	18.7 kg (41.2 lb.)
Size (L × W × H)	460 × 467 × 326 mm (18.1 × 18.4 × 12.8 in.)
Housing material	Aluminum

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera• Printed documentation• Small parts accessory kit• ThermoVision System Tools & Utilities CD-ROM
Packaging, weight	
Packaging, size	670 × 570 × 490 mm (26.4 × 22.4 × 19.3 in.)
EAN-13	7332558008430
UPC-12	845188008789
Country of origin	Sweden

Supplies & accessories:

- T911288ACC; Pole mount adapter for wall mount kit
- T911263ACC; Wall mount kit

P/N: 65501-0101

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Website

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Customer support

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General description

The FLIR G300pt is a pan/tilt infrared camera for optical gas imaging (OGI) that visualizes and pinpoints leaks of volatile organic compounds (VOCs) without the need to shut down the operation. The FLIR G300pt is used in industrial settings such as oil refineries, natural gas processing plants, offshore platforms, chemical/petrochemical industries, and biogas and power generation plants.

The FLIR G300pt precision pan/tilt mechanism gives operators accurate directional control while providing fully programmable scan patterns, radar slew-to-cue, and slew-to-alarm functionality.

Key features

- H.264, MPEG-4, and MJPEG streaming.
- Built-in web server.
- 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.).
- Composite video output.
- Precise pan/tilt mechanism.
- Daylight camera.
- IP66 encapsulation.
- IP control: The FLIR G300pt camera can be integrated into any existing TCP/IP network and controlled with a PC.
- Serial control interface: Pelco D or Bosch commands can be used over RS-232, RS-422, or RS-485 to remotely control a FLIR G300pt camera.
- Multi-camera software: FLIR Sensors Manager allows users to manage and control a FLIR G300pt camera in a TCP/IP network.

Benefits

- Improved efficiency: The FLIR G300pt reduces revenue loss by pinpointing even small gas leaks quickly and efficiently, and from a distance. It also reduces the inspection time by allowing a broad area to be scanned rapidly and without the need to interrupt the industrial process.
- Increased worker safety: OGI allows gas leaks to be detected in a non-contact mode and from a safe distance. This reduces the risk of the user being exposed to invisible and potentially harmful or explosive chemicals. With a FLIR G300pt gas imaging camera it is easy to scan areas of interest that are difficult to reach with conventional methods.
- Protecting the environment: Several VOCs are dangerous to human health or cause harm to the environment, and are usually governed by regulations. Even small leaks can be detected and documented using the FLIR G300pt.

Detects the following gases: benzene, ethanol, ethylbenzene, heptane, hexane, isoprene, methanol, methyl ethyl ketone, MIBK, octane, pentane, 1-pentene, toluene, *m*-xylene, ethane, butane, methane, propane, ethylene, propylene.

Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<15 mK @ +30°C (+86°F)
Field of view (FOV)	14.5° × 10.8°
Minimum focus distance	0.5 m (1.64 ft.)
Focal length	38 mm (1.49 in.)
F-number	1.5
Focus	Automatic using FLIR SDK, or manual
Zoom	1–8× continuous, digital zoom
Digital image enhancement	Noise reduction filter, high sensitivity mode (HSM)

Detector data

Detector type	Focal plane array (FPA), cooled InSb
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FLIR G300 pt 14.5° PAL

P/N: 65501-0101

Revision

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Website

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Customer support

<http://support.flir.com>

Detector data	
Spectral range	3.2–3.4 μm
Sensor cooling	Stirling Microcooler (FLIR MC-3)
MTBF	2 years or 15,000 hours (whichever is greatest), for a camera running 24/7 @ +20°C (+68°F)
Detects following gases	Benzene, ethanol, ethylbenzene, heptane, hexane, isoprene, methanol, methyl ethyl ketone, MIBK, octane, pentane, 1-pentene, toluene, m-xylene, ethane, butane, methane, propane, ethylene, propylene

Imaging and optical data (visual camera)	
Field of view (FOV)	57.8° (H) to 1.7° (H)
Focal length	3.4 mm (wide) to 122.4 mm (tele)
F-number	1.6 to 4.5
Focus	Automatic or manual (built in motor)
Optical Zoom	36x continuous
Electronic Zoom	12x continuous, digital, interpolating

Detector data (visual camera)	
Focal plane array (FPA)	1/4" Exview HAD CCD
Effective pixels	380.000

Technical specification (pan & tilt)	
Azimuth Range	Az velocity 360° continuous, 0.1 to 60°/sec max
Elevation Range	EI velocity $\pm 45^\circ$, 0.1 to 30°/sec. max
Programmable presets	128
Automatic heaters	Clears window from ice. Switched on at +4°C (39°F). Switched off at +15°C (59°F).

Ethernet	
Ethernet	Control, result and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary
Ethernet, video streaming	Two independent channels for each camera - MPEG-4, H.264, or M-JPEG
Ethernet, protocols	TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Composite video	
Video out	Composite video output, PAL compatible
Video, standard	CVBS (ITU-R-BT.470 PAL)

Power system	
Power	24 VAC (21-30 VAC; 24 VAC: 215 VA max. with heater) or 24 VDC (21-30 VDC; 24 VDC: 195 W max. with heater).



FLIR G300 pt 14.5° PAL

P/N: 65501-0101

Revision

35207

Last modified

2016-04-27 09:29 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Environmental data	
Operating temperature range	-40°C to +50°C (-40°F to +122°F)
Storage temperature range	-40°C to +60°C (-40°F to +140°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
Directives	<ul style="list-style-type: none">• Low voltage directive: 2006/95/EC• EMC: 2004/108/EC• RoHS: 2002/95/EC• WEEE: 2002/96/EC
EMC	<ul style="list-style-type: none">• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• EN 61 000-4-8, L5
Encapsulation	IP 66 (IEC 60529)
Bump	5 g, 11 ms (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	18.7 kg (41.2 lb.)
Size (L × W × H)	460 × 467 × 326 mm (18.1 × 18.4 × 12.8 in.)
Housing material	Aluminum

Shipping information	
List of contents	<ul style="list-style-type: none">• Infrared camera• Printed documentation• Small parts accessory kit• ThermoVision System Tools & Utilities CD-ROM
EAN-13	7332558008423
UPC-12	845188008772
Country of origin	Sweden

Supplies & accessories:

- T911288ACC; Pole mount adapter for wall mount kit
- T911263ACC; Wall mount kit

P/N: 65502-0102

Revision

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General description

The FLIR G300 pt is a pan/tilt infrared camera for optical gas imaging (OGI) that visualizes and pinpoints leaks of volatile organic compounds (VOCs) without the need to shut down the operation. The FLIR G300 pt is used in industrial settings such as oil refineries, natural gas processing plants, offshore platforms, chemical/petrochemical industries, and biogas and power generation plants.

The FLIR G300 pt precision pan/tilt mechanism gives operators accurate directional control while providing fully programmable scan patterns, radar slew-to-cue, and slew-to-alarm functionality.

Key features

- H.264, MPEG-4, and MJPEG streaming.
- Built-in web server.
- 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.).
- Composite video output.
- Precise pan/tilt mechanism.
- Daylight camera.
- IP66 encapsulation.
- IP control: The FLIR G300 pt can be integrated into any existing TCP/IP network and controlled with a PC.
- Serial control interface: Pelco D or Bosch commands can be used over RS-232, RS-422, or RS-485 to remotely control a FLIR G300 pt camera.
- Multi-camera software: FLIR Sensors Manager allows users to manage and control a FLIR G300 pt in a TCP/IP network.

Benefits

- Improved efficiency: The FLIR G300 pt reduces revenue loss by pinpointing even small gas leaks quickly and efficiently, and from a distance. It also reduces the inspection time by allowing a broad area to be scanned rapidly and without the need to interrupt the industrial process.
- Increased worker safety: OGI allows gas leaks to be detected in a non-contact mode and from a safe distance. This reduces the risk of the user being exposed to invisible and potentially harmful or explosive chemicals. With a G300 pt gas imaging camera unit it is easy to scan areas of interest that are difficult to reach with conventional methods.
- Protecting the environment: Several VOCs are dangerous to human health or cause harm to the environment, and are usually governed by regulations. Even small leaks can be detected and documented using the FLIR G300 pt.

Detects the following gases: benzene, ethanol, ethylbenzene, heptane, hexane, isoprene, methanol, methyl ethyl ketone, MIBK, octane, pentane, 1-pentene, toluene, *m*-xylene, ethane, butane, methane, propane, ethylene, propylene.

Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<15 mK @ +30°C (+86°F)
Field of view (FOV)	24° × 18°
Minimum focus distance	0.3 m (1.0 ft.)
Focal length	23 mm (0.89 in.)
F-number	1.5
Focus	Automatic using FLIR SDK, or manual
Zoom	1–8× continuous, digital zoom
Digital image enhancement	Noise reduction filter, high sensitivity mode (HSM)

Detector data

Detector type	Focal plane array (FPA), cooled InSb
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FLIR G300 pt 24° NTSC

P/N: 65502-0102

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Detector data	
Spectral range	3.2–3.4 μm
Sensor cooling	Stirling Microcooler (FLIR MC-3)
MTBF	2 years or 15,000 hours (whichever is greatest), for a camera running 24/7 @ +20°C (+68°F)
Detects following gases	Benzene, ethanol, ethylbenzene, heptane, hexane, isoprene, methanol, methyl ethyl ketone, MIBK, octane, pentane, 1-pentene, toluene, m-xylene, ethane, butane, methane, propane, ethylene, propylene

Imaging and optical data (visual camera)	
Field of view (FOV)	57.8° (H) to 1.7° (H)
Focal length	3.4 mm (wide) to 122.4 mm (tele)
F-number	1.6 to 4.5
Focus	Automatic or manual (built in motor)
Optical Zoom	36x continuous
Electronic Zoom	12x continuous, digital, interpolating

Detector data (visual camera)	
Focal plane array (FPA)	1/4" Exview HAD CCD
Effective pixels	380.000

Technical specification (pan & tilt)	
Azimuth Range	Az velocity 360° continuous, 0.1 to 60°/sec max
Elevation Range	EI velocity +/- 45°, 0.1 to 30°/sec. max
Programmable presets	128
Automatic heaters	Clears window from ice. Switched on at +4°C (39°F). Switched off at +15°C (59°F).

Ethernet	
Ethernet	Control, result and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary
Ethernet, video streaming	Two independent channels for each camera - MPEG-4, H.264, or M-JPEG
Ethernet, protocols	TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Composite video	
Video out	Composite video output, NTSC compatible
Video, standard	CVBS (SMPTE 170M NTSC)

Power system	
Power	24 VAC (21–30 VAC; 24 VAC: 215 VA max. with heater) or 24 VDC (21–30 VDC; 24 VDC: 200 W max. with heater)



FLIR G300 pt 24° NTSC

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Website

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Customer support

<http://support.flir.com>

Environmental data	
Operating temperature range	-40°C to +50°C (-40°F to +122°F)
Storage temperature range	-40°C to +60°C (-40°F to +140°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
Directives	<ul style="list-style-type: none">• Low voltage directive: 2006/95/EC• EMC: 2004/108/EC• RoHS: 2002/95/EC• WEEE: 2002/96/EC
EMC	<ul style="list-style-type: none">• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• EN 61 000-4-8, L5
Encapsulation	IP 66 (IEC 60529)
Bump	5 g, 11 ms (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	18.7 kg (41.2 lb.)
Size (L × W × H)	460 × 467 × 326 mm (18.1 × 18.4 × 12.8 in.)
Housing material	Aluminum

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera• Printed documentation• Small parts accessory kit• ThermoVision System Tools & Utilities CD-ROM
Packaging, weight	23.4 kg (51.6 lb.)
Packaging, size	670 × 570 × 490 mm (26.4 × 22.4 × 19.3 in.)
EAN-13	7332558008454
UPC-12	845188008802
Country of origin	Sweden

Supplies & accessories:

- T911288ACC; Pole mount adapter for wall mount kit
- T911263ACC; Wall mount kit

P/N: 65501-0102

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

The FLIR G300pt is a pan/tilt infrared camera for optical gas imaging (OGI) that visualizes and pinpoints leaks of volatile organic compounds (VOCs) without the need to shut down the operation. The FLIR G300pt is used in industrial settings such as oil refineries, natural gas processing plants, offshore platforms, chemical/petrochemical industries, and biogas and power generation plants.

The FLIR G300pt precision pan/tilt mechanism gives operators accurate directional control while providing fully programmable scan patterns, radar slew-to-cue, and slew-to-alarm functionality.

Key features

- H.264, MPEG-4, and MJPEG streaming.
- Built-in web server.
- 100 Mbps Ethernet (100 m cable, wireless, fiber, etc.).
- Composite video output.
- Precise pan/tilt mechanism.
- Daylight camera.
- IP66 encapsulation.
- IP control: The FLIR G300pt camera can be integrated into any existing TCP/IP network and controlled with a PC.
- Serial control interface: Pelco D or Bosch commands can be used over RS-232, RS-422, or RS-485 to remotely control a FLIR G300pt camera.
- Multi-camera software: FLIR Sensors Manager allows users to manage and control a FLIR G300pt camera in a TCP/IP network.

Benefits

- Improved efficiency: The FLIR G300pt reduces revenue loss by pinpointing even small gas leaks quickly and efficiently, and from a distance. It also reduces the inspection time by allowing a broad area to be scanned rapidly and without the need to interrupt the industrial process.
- Increased worker safety: OGI allows gas leaks to be detected in a non-contact mode and from a safe distance. This reduces the risk of the user being exposed to invisible and potentially harmful or explosive chemicals. With a FLIR G300pt gas imaging camera it is easy to scan areas of interest that are difficult to reach with conventional methods.
- Protecting the environment: Several VOCs are dangerous to human health or cause harm to the environment, and are usually governed by regulations. Even small leaks can be detected and documented using the FLIR G300pt.

Detects the following gases: benzene, ethanol, ethylbenzene, heptane, hexane, isoprene, methanol, methyl ethyl ketone, MIBK, octane, pentane, 1-pentene, toluene, *m*-xylene, ethane, butane, methane, propane, ethylene, propylene.

Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<15 mK @ +30°C (+86°F)
Field of view (FOV)	24° × 18°
Minimum focus distance	0.3 m (1.0 ft.)
Focal length	23 mm (0.89 in.)
F-number	1.5
Focus	Automatic using FLIR SDK, or manual
Zoom	1–8× continuous, digital zoom
Digital image enhancement	Noise reduction filter, high sensitivity mode (HSM)

Detector data

Detector type	Focal plane array (FPA), cooled InSb
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FLIR G300 pt 24° PAL

P/N: 65501-0102

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Website

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Customer support

<http://support.flir.com>

Detector data	
Spectral range	3.2–3.4 μm
Sensor cooling	Stirling Microcooler (FLIR MC-3)
MTBF	2 years or 15,000 hours (whichever is greatest), for a camera running 24/7 @ +20°C (+68°F)
Detects following gases	Benzene, ethanol, ethylbenzene, heptane, hexane, isoprene, methanol, methyl ethyl ketone, MIBK, octane, pentane, 1-pentene, toluene, m-xylene, ethane, butane, methane, propane, ethylene, propylene

Imaging and optical data (visual camera)	
Field of view (FOV)	57.8° (H) to 1.7° (H)
Focal length	3.4 mm (wide) to 122.4 mm (tele)
F-number	1.6 to 4.5
Focus	Automatic or manual (built in motor)
Optical Zoom	36x continuous
Electronic Zoom	12x continuous, digital, interpolating

Detector data (visual camera)	
Focal plane array (FPA)	1/4" Exview HAD CCD
Effective pixels	380.000

Technical specification (pan & tilt)	
Azimuth Range	Az velocity 360° continuous, 0.1 to 60°/sec max
Elevation Range	EI velocity $\pm 45^\circ$, 0.1 to 30°/sec. max
Programmable presets	128
Automatic heaters	Clears window from ice. Switched on at +4°C (39°F). Switched off at +15°C (59°F).

Ethernet	
Ethernet	Control, result and image
Ethernet, type	100 Mbps
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary
Ethernet, video streaming	Two independent channels for each camera - MPEG-4, H.264, or M-JPEG
Ethernet, protocols	TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Composite video	
Video out	Composite video output, PAL compatible
Video, standard	CVBS (ITU-R-BT.470 PAL)

Power system	
Power	24 VAC (21-30 VAC; 24 VAC: 215 VA max. with heater) or 24 VDC (21-30 VDC; 24 VDC: 195 W max. with heater).



FLIR G300 pt 24° PAL

P/N: 65501-0102

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Website

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Customer support

<http://support.flir.com>

Environmental data	
Operating temperature range	-40°C to +50°C (-40°F to +122°F)
Storage temperature range	-40°C to +60°C (-40°F to +140°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
Directives	<ul style="list-style-type: none">• Low voltage directive: 2006/95/EC• EMC: 2004/108/EC• RoHS: 2002/95/EC• WEEE: 2002/96/EC
EMC	<ul style="list-style-type: none">• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• EN 61 000-4-8, L5
Encapsulation	IP 66 (IEC 60529)
Bump	5 g, 11 ms (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight	18.7 kg (41.2 lb.)
Size (L × W × H)	460 × 467 × 326 mm (18.1 × 18.4 × 12.8 in.)
Housing material	Aluminum

Shipping information	
List of contents	<ul style="list-style-type: none">• Infrared camera• Printed documentation• Small parts accessory kit• ThermoVision System Tools & Utilities CD-ROM
EAN-13	7332558008447
UPC-12	845188008796
Country of origin	Sweden

Supplies & accessories:

- T911288ACC; Pole mount adapter for wall mount kit
- T911263ACC; Wall mount kit

FLIR GF3xx series

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P/N: 44401-0201

Revision

45202

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2017-09-21 14:48 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
<p>The FLIR GF300 is an infrared camera for optical gas imaging (OGI) that visualizes and pinpoints leaks of methane and other volatile organic compounds (VOCs), without the need to shut down the operation. The portable camera also greatly improves operator safety, by detecting emissions at a safe distance, and helps to protect the environment by tracing leaks of environmentally harmful gases.</p> <p>The FLIR GF300 is used in industrial settings such as oil refineries, natural gas processing plants, offshore platforms, chemical/petrochemical industries, and biogas and power generation plants.</p>	
Benefits:	
<ul style="list-style-type: none"> • Improved efficiency: The FLIR GF300 reduces revenue loss by pinpointing even small gas leaks quickly and efficiently, and from a distance. It also reduces the inspection time by allowing a broad area to be scanned rapidly and without the need to interrupt the industrial process. • Increased worker safety: OGI allows gas leaks to be detected in a non-contact mode and from a safe distance. This reduces the risk of the user being exposed to invisible and potentially harmful or explosive chemicals. With a FLIR GF300 gas imaging camera it is easy to scan areas of interest that are difficult to reach with conventional methods. The camera is ergonomically designed, with a bright LCD and tiltable viewfinder, which facilitates its use over a full working day. • Protecting the environment: Several VOCs are dangerous to human health or cause harm to the environment, and are usually governed by regulations. Even small leaks can be detected and documented using the FLIR GF300 camera. 	
<p>Detects the following gases: benzene, ethanol, ethylbenzene, heptane, hexane, isoprene, methanol, MEK, MIBK, octane, pentane, 1-pentene, toluene, xylene, butane, ethane, methane, propane, ethylene, propylene.</p>	

Licensing and classification	
License information	Interchangeable lens version of the FLIR GF3XX series requires US Department of State License and will be subject to limitations on resale, except inside US. Allow a minimum of 90 days after application submittal for approval.

Imaging and optical data	
IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<15 mK @ +30°C (+86°F)
Field of view (FOV)	14.5° × 10.8°
Minimum focus distance	0.5 m (1.64 ft.)
Focal length	38 mm (1.49 in.)
Lens identification	Automatic
F-number	1.5
Focus	Automatic (one touch) or manual (electric or on the lens)
Zoom	1–8× continuous, digital zoom



FLIR GF300 14.5°

P/N: 44401-0201

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Imaging and optical data	
Digital image enhancement	Noise reduction filter, high sensitivity mode (HSM)

Detector data	
Detector type	Focal plane array (FPA), cooled InSb
Spectral range	3.2–3.4 μm
Detector pitch	30 μm
Sensor cooling	Stirling Microcooler (FLIR MC-3)
Detects following gases	Benzene, Ethanol, Ethylbenzene, Heptane, Hexane, Isoprene, Methanol, MEK, MIBK, Octane, Pentane, 1-Pentene, Toluene, Xylene, Butane, Ethane, Methane, Propane, Ethylene, Propylene

Electronics and data rate	
Full frame rate	60 Hz

Image presentation	
Display	Built-in widescreen, 4.3 in. LCD, 800 × 480 pixels
Viewfinder	Built-in, tiltable OLED, 800 × 480 pixels
Automatic image adjustment	Continuous/manual; linear or histogram based
Manual image adjustment	Level/span

Image presentation modes	
Image modes	IR image, visual image, high sensitivity mode (HSM)

Measurement	
Temperature range	-20°C to +350°C (-4°F to +662°F)

Set-up	
Menu commands	Level, span Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image
Color palettes	Iron, Gray, Rainbow, Arctic, Lava, Rainbow HC
Set-up commands	1 programmable button, overlay recording mode, local adaptation of units, language, date and time formats

Storage of images	
Storage media	Removable SD or SDHC memory card, two card slots
Image storage capacity	> 1200 images (JPEG) with post process capability per GB on memory card
Image storage mode	IR/visual images Visual image can automatically be associated with corresponding IR image
Periodic image storage	Every 10 seconds up to 24 hours



FLIR GF300 14.5°

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Website

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Customer support

<http://support.flir.com>

Storage of images	
File formats	Standard JPEG, 14 bit measurement data included

Geographic Information System	
GPS	Location data automatically added to every image from built-in GPS

Video recording in camera	
Radiometric IR video recording	*.seq video clips to memory card (7.5 and 15 Hz).
Non-radiometric IR video recording	MPEG4 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR video.
Visual video recording	MPEG4 (25 minutes/clip) to memory card

Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB cable or to mobile devices using Wi-Fi. PC software capable of displaying the video stream include the following: <ul style="list-style-type: none">• FLIR IR Camera Player• FLIR ResearchIR• FLIR Tools
Non-radiometric IR video streaming	RTP/MPEG4

Digital camera	
Built-in digital camera	3.2 Mpixels, auto focus, and two video lamps

Laser pointer	
Laser	Activated by dedicated button
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

USB	
USB	<ul style="list-style-type: none">• USB-A: Connect external USB device• USB Mini-B: Data transfer to and from PC
USB, standard	USB Mini-B: 2.0 high speed

Composite video	
Video out	Digital video output (image)

Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	7.2 V
Battery capacity	4.4 Ah
Battery operating time	> 3 hours at 25°C (+77°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 95% capacity, charging status indicated by LED's
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)



FLIR GF300 14.5°

P/N: 44401-0201

Revision

45202

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Power system	
DC operation	10.8 to 16 V DC, polarity protected (proprietary protected)
Power	8.5 W typically
Start-up time	Typically 7 min. @ 25°C (+77°F)

Environmental data	
Operating temperature range	-20°C to +50°C (-4°F to +122°F)
Storage temperature range	-30°C to +60°C (-22°F to +140°F)
Humidity (operating and storage)	IEC 68-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) (2 cycles)
Directives	<ul style="list-style-type: none">• 73/23EEC• 2004/108/EC• 2002/95/EC• 2002/96/EC
EMC	<ul style="list-style-type: none">• EN61000-6-4 (Emission)• EN61000-6-2 (Immunity)• FCC 47 CFR Part 15 class A (Emission)• EN 61 000-4-8, L5
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	Power supply: EN/UL/IEC 60950-1

Physical data	
Camera weight, excl. lens and battery	1.94 kg (4.27 lb.)
Camera weight, incl. lens and excl. battery	2.24 kg (4.94 lb.)
Camera weight, incl. lens and battery	2.48 kg (5.47 lb.)
Battery weight	0.24 kg (0.52 lb.)
Camera size, excl. lens (L × W × H)	284 × 169 × 161 mm (11.2 × 6.7 × 6.3 in.)
Cameras size, incl. lens (L × W × H)	305 × 169 × 161 mm (12.0 × 6.7 × 6.3 in.)
Battery size (L × W × H)	141 × 47 × 28 mm (5.5 × 1.8 × 1.1 in.)
Battery charger size (L × W × H)	158 × 122 × 25 mm (6.2 × 4.8 × 1.0 in.)
Tripod mounting	UNC ¼"-20
Housing material	Aluminum, magnesium
Grip material	TPE thermoplastic elastomers

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery charger• Battery, 2 ea.• Hard transport case• HDMI-DVI cable• HDMI-HDMI cable• Lens cap (2 ea.)• Lens cap (mounted on lens)• Memory card• Power supply, incl. multi-plugs• Printed documentation• Shoulder strap• USB cable
Packaging, weight	



FLIR GF300 14.5°

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>**Shipping information**

Packaging, size	400 × 190 × 510 mm (15.7 × 7.5 × 20.1 in.)
EAN-13	7332558002704
UPC-12	845188001964
Country of origin	Sweden

Supplies & accessories:

- T197387; IR lens, 24° with case for GF300, GF309, GF320
- T197388; IR lens, 6° with case for GF300, GF309, GF320, GF346.
- T197385; IR lens, 14.5° with case for GF300, GF309, GF320
- T197692; Battery charger, incl. power supply with multi plugs
- T910814; Power supply, incl. multi plugs
- T198511; Li-Ion Battery pack 7.4V 33Wh
- T199367ACC; Battery Li-ion 7.2 V, 4.4 Ah, 32 Wh
- T199183ACC; Battery
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910815ACC; HDMI to HDMI cable 1.5 m
- T910816ACC; HDMI to DVI cable 1.5 m
- T197555; Hard transport case for FLIR GF3xx-Series
- T198585; FLIR VideoReport
- DSW-10000; FLIR IR Camera Player
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

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Website

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General description

The FLIR GF300 is an infrared camera for optical gas imaging (OGI) that visualizes and pinpoints leaks of methane and other volatile organic compounds (VOCs), without the need to shut down the operation. The portable camera also greatly improves operator safety, by detecting emissions at a safe distance, and helps to protect the environment by tracing leaks of environmentally harmful gases.

The FLIR GF300 is used in industrial settings such as oil refineries, natural gas processing plants, offshore platforms, chemical/petrochemical industries, and biogas and power generation plants.

Benefits:

- **Improved efficiency:** The FLIR GF300 reduces revenue loss by pinpointing even small gas leaks quickly and efficiently, and from a distance. It also reduces the inspection time by allowing a broad area to be scanned rapidly and without the need to interrupt the industrial process.
- **Increased worker safety:** OGI allows gas leaks to be detected in a non-contact mode and from a safe distance. This reduces the risk of the user being exposed to invisible and potentially harmful or explosive chemicals. With a FLIR GF300 gas imaging camera it is easy to scan areas of interest that are difficult to reach with conventional methods. The camera is ergonomically designed, with a bright LCD and tiltable viewfinder, which facilitates its use over a full working day.
- **Protecting the environment:** Several VOCs are dangerous to human health or cause harm to the environment, and are usually governed by regulations. Even small leaks can be detected and documented using the FLIR GF300 camera.

Detects the following gases: benzene, ethanol, ethylbenzene, heptane, hexane, isoprene, methanol, MEK, MIBK, octane, pentane, 1-pentene, toluene, xylene, butane, ethane, methane, propane, ethylene, propylene.

Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<15 mK @ +30°C (+86°F)
Field of view (FOV)	14.5° × 10.8°
Minimum focus distance	0.5 m (1.64 ft.)
Focal length	38 mm (1.49 in.)
Lens identification	Automatic
F-number	1.5
Focus	Automatic (one touch) or manual (electric or on the lens)
Zoom	1–8× continuous, digital zoom
Digital image enhancement	Noise reduction filter, high sensitivity mode (HSM)

Detector data

Detector type	Focal plane array (FPA), cooled InSb
Spectral range	3.2–3.4 μm



FLIR GF300 14.5° Fixed lens

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Detector data	
Detector pitch	30 µm
Sensor cooling	Stirling Microcooler (FLIR MC-3)
Detects following gases	Benzene, Ethanol, Ethylbenzene, Heptane, Hexane, Isoprene, Methanol, MEK, MIBK, Octane, Pentane, 1-Pentene, Toluene, Xylene, Butane, Ethane, Methane, Propane, Ethylene, Propylene

Electronics and data rate	
Full frame rate	60 Hz

Image presentation	
Display	Built-in widescreen, 4.3 in. LCD, 800 × 480 pixels
Viewfinder	Built-in, tiltable OLED, 800 × 480 pixels
Automatic image adjustment	Continuous/manual; linear or histogram based
Manual image adjustment	Level/span

Image presentation modes	
Image modes	IR image, visual image, high sensitivity mode (HSM)

Measurement	
Temperature range	-20°C to +350°C (-4°F to +662°F)

Set-up	
Menu commands	Level, span Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image
Color palettes	Iron, Gray, Rainbow, Arctic, Lava, Rainbow HC
Set-up commands	1 programmable button, overlay recording mode, local adaptation of units, language, date and time formats

Storage of images	
Storage media	Removable SD or SDHC memory card , two card slots
Image storage capacity	> 1200 images (JPEG) with post process capability per GB on memory card
Image storage mode	IR/visual images Visual image can automatically be associated with corresponding IR image
Periodic image storage	Every 10 seconds up to 24 hours
File formats	Standard JPEG, 14 bit measurement data included

Geographic Information System	
GPS	Location data automatically added to every image from built-in GPS



FLIR GF300 14.5° Fixed lens

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Website

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Video recording in camera	
Radiometric IR video recording	*.seq video clips to memory card (7.5 and 15 Hz).
Non-radiometric IR video recording	MPEG4 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR video.
Visual video recording	MPEG4 (25 minutes/clip) to memory card

Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB cable or to mobile devices using Wi-Fi. PC software capable of displaying the video stream include the following: <ul style="list-style-type: none">• FLIR IR Camera Player• FLIR ResearchIR• FLIR Tools
Non-radiometric IR video streaming	RTP/MPEG4

Digital camera	
Built-in digital camera	3.2 Mpixels, auto focus, and two video lamps

Laser pointer	
Laser	Activated by dedicated button
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

USB	
USB	<ul style="list-style-type: none">• USB-A: Connect external USB device• USB Mini-B: Data transfer to and from PC
USB, standard	USB Mini-B: 2.0 high speed

Composite video	
Video out	Digital video output (image)

Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	7.2 V
Battery capacity	4.4 Ah
Battery operating time	> 3 hours at 25°C (+77°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 95% capacity, charging status indicated by LED's
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
DC operation	10.8 to 16 V DC, polarity protected (proprietary protected)
Power	8.5 W typically
Start-up time	Typically 7 min. @ 25°C (+77°F)

Environmental data	
Operating temperature range	–20°C to +50°C (–4°F to +122°F)



FLIR GF300 14.5° Fixed lens

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Website

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Customer support

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Environmental data	
Storage temperature range	-30°C to +60°C (-22°F to +140°F)
Humidity (operating and storage)	IEC 68-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) (2 cycles)
Directives	<ul style="list-style-type: none">• 73/23EEC• 2004/108/EC• 2002/95/EC• 2002/96/EC
EMC	<ul style="list-style-type: none">• EN61000-6-4 (Emission)• EN61000-6-2 (Immunity)• FCC 47 CFR Part 15 class A (Emission)• EN 61 000-4-8, L5
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	Power supply: EN/UL/IEC 60950-1

Physical data	
Camera weight, excl. lens and battery	1.94 kg (4.27 lb.)
Camera weight, incl. lens and excl. battery	2.24 kg (4.94 lb.)
Camera weight, incl. lens and battery	2.48 kg (5.47 lb.)
Battery weight	0.24 kg (0.52 lb.)
Camera size, excl. lens (L x W x H)	284 x 169 x 161 mm (11.2 x 6.7 x 6.3 in.)
Cameras size, incl. lens (L x W x H)	305 x 169 x 161 mm (12.0 x 6.7 x 6.3 in.)
Battery size (L x W x H)	141 x 47 x 28 mm (5.5 x 1.8 x 1.1 in.)
Battery charger size (L x W x H)	158 x 122 x 25 mm (6.2 x 4.8 x 1.0 in.)
Tripod mounting	UNC ¼"-20
Housing material	Aluminum, magnesium
Grip material	TPE thermoplastic elastomers

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery charger• Battery, 2 ea.• Hard transport case• HDMI-DVI cable• HDMI-HDMI cable• Lens cap (mounted on lens)• Memory card• Power supply, incl. multi-plugs• Printed documentation• Shoulder strap• USB cable
Packaging, weight	
Packaging, size	400 x 190 x 510 mm (15.7 x 7.5 x 20.1 in.)
EAN-13	7332558002711
UPC-12	845188001971
Country of origin	Sweden

Supplies & accessories:

- T197692; Battery charger, incl. power supply with multi plugs
- T910814; Power supply, incl. multi plugs
- T198511; Li-Ion Battery pack 7.4V 33Wh
- T199367ACC; Battery Li-ion 7.2 V, 4.4 Ah, 32 Wh



FLIR GF300 14.5° Fixed lens

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Website

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Customer support

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- T199183ACC; Battery
- T911650ACC; Memory card SD Card 8 GB
- T1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910815ACC; HDMI to HDMI cable 1.5 m
- T910816ACC; HDMI to DVI cable 1.5 m
- T197555; Hard transport case for FLIR GF3xx-Series
- T198585; FLIR VideoReport
- DSW-10000; FLIR IR Camera Player
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

The FLIR GF300 is an infrared camera for optical gas imaging (OGI) that visualizes and pinpoints leaks of methane and other volatile organic compounds (VOCs), without the need to shut down the operation. The portable camera also greatly improves operator safety, by detecting emissions at a safe distance, and helps to protect the environment by tracing leaks of environmentally harmful gases.

The FLIR GF300 is used in industrial settings such as oil refineries, natural gas processing plants, offshore platforms, chemical/petrochemical industries, and biogas and power generation plants.

Benefits:

- **Improved efficiency:** The FLIR GF300 reduces revenue loss by pinpointing even small gas leaks quickly and efficiently, and from a distance. It also reduces the inspection time by allowing a broad area to be scanned rapidly and without the need to interrupt the industrial process.
- **Increased worker safety:** OGI allows gas leaks to be detected in a non-contact mode and from a safe distance. This reduces the risk of the user being exposed to invisible and potentially harmful or explosive chemicals. With a FLIR GF300 gas imaging camera it is easy to scan areas of interest that are difficult to reach with conventional methods. The camera is ergonomically designed, with a bright LCD and tiltable viewfinder, which facilitates its use over a full working day.
- **Protecting the environment:** Several VOCs are dangerous to human health or cause harm to the environment, and are usually governed by regulations. Even small leaks can be detected and documented using the FLIR GF300 camera.

Detects the following gases: benzene, ethanol, ethylbenzene, heptane, hexane, isoprene, methanol, MEK, MIBK, octane, pentane, 1-pentene, toluene, xylene, butane, ethane, methane, propane, ethylene, propylene.

Licensing and classification

License information

Interchangeable lens version of the FLIR GF3XX series requires US Department of State License and will be subject to limitations on resale, except inside US. Allow a minimum of 90 days after application submittal for approval.

Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<15 mK @ +30°C (+86°F)
Field of view (FOV)	24° × 18°
Minimum focus distance	0.3 m (1.0 ft.)
Focal length	23 mm (0.89 in.)
Lens identification	Automatic
F-number	1.5
Focus	Automatic (one touch) or manual (electric or on the lens)
Zoom	1–8× continuous, digital zoom

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Website

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Customer support

<http://support.flir.com>

Imaging and optical data	
Digital image enhancement	Noise reduction filter, high sensitivity mode (HSM)
Detector data	
Detector type	Focal plane array (FPA), cooled InSb
Spectral range	3.2–3.4 μm
Detector pitch	30 μm
Sensor cooling	Stirling Microcooler (FLIR MC-3)
Detects following gases	Benzene, Ethanol, Ethylbenzene, Heptane, Hexane, Isoprene, Methanol, MEK, MIBK, Octane, Pentane, 1-Pentene, Toluene, Xylene, Butane, Ethane, Methane, Propane, Ethylene, Propylene
Electronics and data rate	
Full frame rate	60 Hz
Image presentation	
Display	Built-in widescreen, 4.3 in. LCD, 800 × 480 pixels
Viewfinder	Built-in, tiltable OLED, 800 × 480 pixels
Automatic image adjustment	Continuous/manual; linear or histogram based
Manual image adjustment	Level/span
Image presentation modes	
Image modes	IR image, visual image, high sensitivity mode (HSM)
Measurement	
Temperature range	–20°C to +350°C (–4°F to +662°F)
Set-up	
Menu commands	Level, span Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image
Color palettes	Iron, Gray, Rainbow, Arctic, Lava, Rainbow HC
Set-up commands	1 programmable button, overlay recording mode, local adaptation of units, language, date and time formats
Storage of images	
Storage media	Removable SD or SDHC memory card, two card slots
Image storage capacity	> 1200 images (JPEG) with post process capability per GB on memory card
Image storage mode	IR/visual images Visual image can automatically be associated with corresponding IR image
Periodic image storage	Every 10 seconds up to 24 hours



FLIR GF300 24°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Storage of images	
File formats	Standard JPEG, 14 bit measurement data included

Geographic Information System	
GPS	Location data automatically added to every image from built-in GPS

Video recording in camera	
Radiometric IR video recording	*.seq video clips to memory card (7.5 and 15 Hz).
Non-radiometric IR video recording	MPEG4 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR video.
Visual video recording	MPEG4 (25 minutes/clip) to memory card

Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB cable or to mobile devices using Wi-Fi. PC software capable of displaying the video stream include the following: <ul style="list-style-type: none">• FLIR IR Camera Player• FLIR ResearchIR• FLIR Tools
Non-radiometric IR video streaming	RTP/MPEG4

Digital camera	
Built-in digital camera	3.2 Mpixels, auto focus, and two video lamps

Laser pointer	
Laser	Activated by dedicated button
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

USB	
USB	<ul style="list-style-type: none">• USB-A: Connect external USB device• USB Mini-B: Data transfer to and from PC
USB, standard	USB Mini-B: 2.0 high speed

Composite video	
Video out	Digital video output (image)

Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	7.2 V
Battery capacity	4.4 Ah
Battery operating time	> 3 hours at 25°C (+77°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 95% capacity, charging status indicated by LED's
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)



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Website

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Customer support

<http://support.flir.com>

Power system	
DC operation	10.8 to 16 V DC, polarity protected (proprietary protected)
Power	8.5 W typically
Start-up time	Typically 7 min. @ 25°C (+77°F)

Environmental data	
Operating temperature range	-20°C to +50°C (-4°F to +122°F)
Storage temperature range	-30°C to +60°C (-22°F to +140°F)
Humidity (operating and storage)	IEC 68-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) (2 cycles)
Directives	<ul style="list-style-type: none">• 73/23EEC• 2004/108/EC• 2002/95/EC• 2002/96/EC
EMC	<ul style="list-style-type: none">• EN61000-6-4 (Emission)• EN61000-6-2 (Immunity)• FCC 47 CFR Part 15 class A (Emission)• EN 61 000-4-8, L5
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	Power supply: EN/UL/IEC 60950-1

Physical data	
Camera weight, excl. lens and battery	1.94 kg (4.27 lb.)
Camera weight, incl. lens and excl. battery	2.24 kg (4.94 lb.)
Camera weight, incl. lens and battery	2.48 kg (5.47 lb.)
Battery weight	0.24 kg (0.52 lb.)
Camera size, excl. lens (L x W x H)	284 x 169 x 161 mm (11.2 x 6.7 x 6.3 in.)
Cameras size, incl. lens (L x W x H)	306 x 169 x 161 mm (12.0 x 6.7 x 6.3 in.)
Battery size (L x W x H)	141 x 47 x 28 mm (5.5 x 1.8 x 1.1 in.)
Battery charger size (L x W x H)	158 x 122 x 25 mm (6.2 x 4.8 x 1.0 in.)
Tripod mounting	UNC ¼"-20
Housing material	Aluminum, magnesium
Grip material	TPE thermoplastic elastomers

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery charger• Battery, 2 ea.• Hard transport case• HDMI-DVI cable• HDMI-HDMI cable• Lens cap (2 ea.)• Lens cap (mounted on lens)• Memory card• Power supply, incl. multi-plugs• Printed documentation• Shoulder strap• USB cable
Packaging, weight	



FLIR GF300 24°

P/N: 44401-0202

Revision

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>**Shipping information**

Packaging, size	400 × 190 × 510 mm (15.7 × 7.5 × 20.1 in.)
EAN-13	7332558002728
UPC-12	845188001988
Country of origin	Sweden

Supplies & accessories:

- T197387; IR lens, 24° with case for GF300, GF309, GF320
- T197388; IR lens, 6° with case for GF300, GF309, GF320, GF346.
- T197385; IR lens, 14.5° with case for GF300, GF309, GF320
- T197692; Battery charger, incl. power supply with multi plugs
- T910814; Power supply, incl. multi plugs
- T198511; Li-Ion Battery pack 7.4V 33Wh
- T199367ACC; Battery Li-ion 7.2 V, 4.4 Ah, 32 Wh
- T199183ACC; Battery
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910815ACC; HDMI to HDMI cable 1.5 m
- T910816ACC; HDMI to DVI cable 1.5 m
- T197555; Hard transport case for FLIR GF3xx-Series
- T198585; FLIR VideoReport
- DSW-10000; FLIR IR Camera Player
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

P/N: 44402-0202

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Website

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Customer support

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General description

The FLIR GF300 is an infrared camera for optical gas imaging (OGI) that visualizes and pinpoints leaks of methane and other volatile organic compounds (VOCs), without the need to shut down the operation. The portable camera also greatly improves operator safety, by detecting emissions at a safe distance, and helps to protect the environment by tracing leaks of environmentally harmful gases.

The FLIR GF300 is used in industrial settings such as oil refineries, natural gas processing plants, offshore platforms, chemical/petrochemical industries, and biogas and power generation plants.

Benefits:

- **Improved efficiency:** The FLIR GF300 reduces revenue loss by pinpointing even small gas leaks quickly and efficiently, and from a distance. It also reduces the inspection time by allowing a broad area to be scanned rapidly and without the need to interrupt the industrial process.
- **Increased worker safety:** OGI allows gas leaks to be detected in a non-contact mode and from a safe distance. This reduces the risk of the user being exposed to invisible and potentially harmful or explosive chemicals. With a FLIR GF300 gas imaging camera it is easy to scan areas of interest that are difficult to reach with conventional methods. The camera is ergonomically designed, with a bright LCD and tiltable viewfinder, which facilitates its use over a full working day.
- **Protecting the environment:** Several VOCs are dangerous to human health or cause harm to the environment, and are usually governed by regulations. Even small leaks can be detected and documented using the FLIR GF300 camera.

Detects the following gases: benzene, ethanol, ethylbenzene, heptane, hexane, isoprene, methanol, MEK, MIBK, octane, pentane, 1-pentene, toluene, xylene, butane, ethane, methane, propane, ethylene, propylene.

Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<15 mK @ +30°C (+86°F)
Field of view (FOV)	24° × 18°
Minimum focus distance	0.3 m (1.0 ft.)
Focal length	23 mm (0.89 in.)
Lens identification	Automatic
F-number	1.5
Focus	Automatic (one touch) or manual (electric or on the lens)
Zoom	1–8× continuous, digital zoom
Digital image enhancement	Noise reduction filter, high sensitivity mode (HSM)

Detector data

Detector type	Focal plane array (FPA), cooled InSb
Spectral range	3.2–3.4 μm



FLIR GF300 24° Fixed lens

P/N: 44402-0202

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Website

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Customer support

<http://support.flir.com>

Detector data	
Detector pitch	30 µm
Sensor cooling	Stirling Microcooler (FLIR MC-3)
Detects following gases	Benzene, Ethanol, Ethylbenzene, Heptane, Hexane, Isoprene, Methanol, MEK, MIBK, Octane, Pentane, 1-Pentene, Toluene, Xylene, Butane, Ethane, Methane, Propane, Ethylene, Propylene

Electronics and data rate	
Full frame rate	60 Hz

Image presentation	
Display	Built-in widescreen, 4.3 in. LCD, 800 × 480 pixels
Viewfinder	Built-in, tiltable OLED, 800 × 480 pixels
Automatic image adjustment	Continuous/manual; linear or histogram based
Manual image adjustment	Level/span

Image presentation modes	
Image modes	IR image, visual image, high sensitivity mode (HSM)

Measurement	
Temperature range	-20°C to +350°C (-4°F to +662°F)

Set-up	
Menu commands	Level, span Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image
Color palettes	Iron, Gray, Rainbow, Arctic, Lava, Rainbow HC
Set-up commands	1 programmable button, overlay recording mode, local adaptation of units, language, date and time formats

Storage of images	
Storage media	Removable SD or SDHC memory card , two card slots
Image storage capacity	> 1200 images (JPEG) with post process capability per GB on memory card
Image storage mode	IR/visual images Visual image can automatically be associated with corresponding IR image
Periodic image storage	Every 10 seconds up to 24 hours
File formats	Standard JPEG, 14 bit measurement data included

Geographic Information System	
GPS	Location data automatically added to every image from built-in GPS



FLIR GF300 24° Fixed lens

P/N: 44402-0202

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Website

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Customer support

<http://support.flir.com>

Video recording in camera	
Radiometric IR video recording	*.seq video clips to memory card (7.5 and 15 Hz).
Non-radiometric IR video recording	MPEG4 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR video.
Visual video recording	MPEG4 (25 minutes/clip) to memory card

Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB cable or to mobile devices using Wi-Fi. PC software capable of displaying the video stream include the following: <ul style="list-style-type: none">• FLIR IR Camera Player• FLIR ResearchIR• FLIR Tools
Non-radiometric IR video streaming	RTP/MPEG4

Digital camera	
Built-in digital camera	3.2 Mpixels, auto focus, and two video lamps

Laser pointer	
Laser	Activated by dedicated button
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

USB	
USB	<ul style="list-style-type: none">• USB-A: Connect external USB device• USB Mini-B: Data transfer to and from PC
USB, standard	USB Mini-B: 2.0 high speed

Composite video	
Video out	Digital video output (image)

Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	7.2 V
Battery capacity	4.4 Ah
Battery operating time	> 3 hours at 25°C (+77°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 95% capacity, charging status indicated by LED's
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
DC operation	10.8 to 16 V DC, polarity protected (proprietary protected)
Power	8.5 W typically
Start-up time	Typically 7 min. @ 25°C (+77°F)

Environmental data	
Operating temperature range	–20°C to +50°C (–4°F to +122°F)



FLIR GF300 24° Fixed lens

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Website

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Environmental data	
Storage temperature range	-30°C to +60°C (-22°F to +140°F)
Humidity (operating and storage)	IEC 68-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) (2 cycles)
Directives	<ul style="list-style-type: none">• 73/23EEC• 2004/108/EC• 2002/95/EC• 2002/96/EC
EMC	<ul style="list-style-type: none">• EN61000-6-4 (Emission)• EN61000-6-2 (Immunity)• FCC 47 CFR Part 15 class A (Emission)• EN 61 000-4-8, L5
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	Power supply: EN/UL/IEC 60950-1

Physical data	
Camera weight, excl. lens and battery	1.94 kg (4.27 lb.)
Camera weight, incl. lens and excl. battery	2.24 kg (4.94 lb.)
Camera weight, incl. lens and battery	2.48 kg (5.47 lb.)
Battery weight	0.24 kg (0.52 lb.)
Camera size, excl. lens (L x W x H)	284 x 169 x 161 mm (11.2 x 6.7 x 6.3 in.)
Cameras size, incl. lens (L x W x H)	306 x 169 x 161 mm (12.0 x 6.7 x 6.3 in.)
Battery size (L x W x H)	141 x 47 x 28 mm (5.5 x 1.8 x 1.1 in.)
Battery charger size (L x W x H)	158 x 122 x 25 mm (6.2 x 4.8 x 1.0 in.)
Tripod mounting	UNC ¼"-20
Housing material	Aluminum, magnesium
Grip material	TPE thermoplastic elastomers

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery charger• Battery, 2 ea.• Hard transport case• HDMI-DVI cable• HDMI-HDMI cable• Lens cap (mounted on lens)• Memory card• Power supply, incl. multi-plugs• Printed documentation• Shoulder strap• USB cable
Packaging, weight	
Packaging, size	400 x 190 x 510 mm (15.7 x 7.5 x 20.1 in.)
EAN-13	7332558002735
UPC-12	845188001995
Country of origin	Sweden

Supplies & accessories:

- T197692; Battery charger, incl. power supply with multi plugs
- T910814; Power supply, incl. multi plugs
- T198511; Li-Ion Battery pack 7.4V 33Wh
- T199367ACC; Battery Li-ion 7.2 V, 4.4 Ah, 32 Wh



FLIR GF300 24° Fixed lens

P/N: 44402-0202

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Website

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Customer support

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- T199183ACC; Battery
- T911650ACC; Memory card SD Card 8 GB
- T1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910815ACC; HDMI to HDMI cable 1.5 m
- T910816ACC; HDMI to DVI cable 1.5 m
- T197555; Hard transport case for FLIR GF3xx-Series
- T198585; FLIR VideoReport
- DSW-10000; FLIR IR Camera Player
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

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Website

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Customer support

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General description

The FLIR GF304 is an infrared camera for optical gas imaging (OGI) that visualizes and pinpoints leaks of refrigerant gases, without the need to shut down the operation. This portable camera also greatly improves operator safety, by detecting gases at a safe distance, and helps to protect the environment by tracing leaks of environmentally harmful gases.

Refrigerant gases are found in, for example, the food, chemical/petrochemical, and automotive industries, as well as in air-conditioning systems.

Benefits:

- **Improved efficiency:** The FLIR GF304 reduces revenue loss by pinpointing even small gas leaks quickly and efficiently, and from a distance. It also reduces the inspection time by being able to scan a broad area rapidly without the need to interrupt the industrial process. The wireless connectivity of the camera allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The FLIR GF304 can also be used for temperature measurement, which makes it even more useful for predictive maintenance.
- **Increased worker safety:** The leak detection of gases can be performed in non-contact mode, and from a safe distance. This reduces the risk of the user being exposed to invisible and potentially harmful or explosive chemicals. With a FLIR GF304 gas-imaging camera it is easy to scan areas of interest that are difficult to reach with conventional methods. The camera is ergonomically designed, with a bright LCD and a tiltable viewfinder, which facilitates its use over a full working day.
- **Protecting the environment:** Several refrigerant gases have a high global warming potential and are usually governed by regulations. Even small leaks can be detected and documented using the FLIR GF304 camera.

Detects the following refrigerant gases: R404A, R407C, R410A, R134A, R417A, R422A, R507A, R143A, R125, R245fa.

Licensing and classification

License information

Interchangeable lens version of the FLIR GF3XX series requires US Department of State License and will be subject to limitations on resale, except inside US. Allow a minimum of 90 days after application submittal for approval.

Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<15 mK @ +30°C (+86°F)
Field of view (FOV)	14.5° × 10.8°
Minimum focus distance	0.5 m (1.64 ft.)
Focal length	38 mm (1.49 in.)
Lens identification	Automatic
F-number	1.5
Focus	Automatic (one touch) or manual (electric or on the lens)
Zoom	1–8× continuous, digital zoom



FLIR GF304 14.5°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Imaging and optical data	
Digital image enhancement	Noise reduction filter, high sensitivity mode (HSM)

Detector data	
Detector type	Focal plane array (FPA), cooled QWIP
Spectral range	8.0–8.6 μm
Detector pitch	30 μm
Sensor cooling	Stirling Microcooler (FLIR MC-3)
Detects following gases	R404A, R407C, R410A, R417A, R422A, R507A, R143A, R125, R134A, R245fa

Electronics and data rate	
Full frame rate	60 Hz

Image presentation	
Display	Built-in widescreen, 4.3 in. LCD, 800 × 480 pixels
Viewfinder	Built-in, tiltable OLED, 800 × 480 pixels
Automatic image adjustment	Continuous/manual; linear or histogram based
Manual image adjustment	Level/span

Image presentation modes	
Image modes	IR image, visual image, high sensitivity mode (HSM)

Measurement	
Temperature range	-20°C to +250°C (-4°F to +482°F)
Accuracy	$\pm 1^\circ\text{C}$ ($\pm 1.8^\circ\text{F}$) for temperature range (0°C, to +100°C, +32°F to +212°F) or $\pm 2\%$ of reading for temperature range (>+100°C, >+212°F)

Measurement analysis	
Spotmeter	10
Area	5 boxes with max./min./average
Profile	1 live line (horizontal or vertical)
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from editable materials list
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
Measurement corrections	Reflected temperature, distance, atmospheric transmission, humidity, external optics



FLIR GF304 14.5°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Set-up	
Menu commands	Level, span Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image
Color palettes	Iron, Gray, Rainbow, Arctic, Lava, Rainbow HC
Set-up commands	1 programmable button, overlay recording mode, local adaptation of units, language, date and time formats

Storage of images	
Storage media	Removable SD or SDHC memory card , two card slots
Image storage capacity	> 1200 images (JPEG) with post process capability per GB on memory card
Image storage mode	IR/visual images Visual image can automatically be associated with corresponding IR image
Periodic image storage	Every 10 seconds up to 24 hours
File formats	Standard JPEG, 14 bit measurement data included

Geographic Information System	
GPS	Location data automatically added to every image from built-in GPS

Video recording in camera	
Radiometric IR video recording	*.seq video clips to memory card (7.5 and 15 Hz).
Non-radiometric IR video recording	MPEG4 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR video.
Visual video recording	MPEG4 (25 minutes/clip) to memory card

Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB cable or to mobile devices using Wi-Fi. PC software capable of displaying the video stream include the following: <ul style="list-style-type: none">• FLIR IR Camera Player• FLIR ResearchIR• FLIR Tools
Non-radiometric IR video streaming	RTP/MPEG4

Digital camera	
Built-in digital camera	3.2 Mpixels, auto focus, and two video lamps

Laser pointer	
Laser	Activated by dedicated button
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)



FLIR GF304 14.5°

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USB	
USB	<ul style="list-style-type: none">• USB-A: Connect external USB device• USB Mini-B: Data transfer to and from PC
USB, standard	USB Mini-B: 2.0 high speed

Composite video	
Video out	Digital video output (image)

Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	7.2 V
Battery capacity	4.4 Ah
Battery operating time	> 3 hours at 25°C (+77°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 95% capacity, charging status indicated by LED's
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
DC operation	10.8 to 16 V DC, polarity protected (proprietary protected)
Power	8.5 W typically
Start-up time	Typically 8 min. @ 25°C (+77°F)

Environmental data	
Operating temperature range	–20°C to +40°C (–4°F to +104°F)
Storage temperature range	–30°C to +60°C (–22°F to +140°F)
Humidity (operating and storage)	IEC 68-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) (2 cycles)
Directives	<ul style="list-style-type: none">• 73/23EEC• 2004/108/EC• 2002/95/EC• 2002/96/EC
EMC	<ul style="list-style-type: none">• EN61000-6-4 (Emission)• EN61000-6-2 (Immunity)• FCC 47 CFR Part 15 class A (Emission)• EN 61 000-4-8, L5
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	Power supply: EN/UL/IEC 60950-1

Physical data	
Camera weight, excl. lens and battery	1.94 kg (4.27 lb.)
Camera weight, incl. lens and excl. battery	2.24 kg (4.94 lb.)
Camera weight, incl. lens and battery	2.48 kg (5.47 lb.)
Battery weight	0.24 kg (0.52 lb.)
Camera size, excl. lens (L × W × H)	284 × 169 × 161 mm (11.2 × 6.7 × 6.3 in.)
Cameras size, incl. lens (L × W × H)	305 × 169 × 161 mm (12.0 × 6.7 × 6.3 in.)
Battery size (L × W × H)	141 × 47 × 28 mm (5.5 × 1.8 × 1.1 in.)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Physical data	
Battery charger size (L x W x H)	158 x 122 x 25 mm (6.2 x 4.8 x 1.0 in.)
Tripod mounting	UNC 1/4"-20
Housing material	Aluminum, magnesium
Grip material	TPE thermoplastic elastomers

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Infrared camera with lens • Battery charger • Battery, 2 ea. • Hard transport case • HDMI-DVI cable • HDMI-HDMI cable • Lens cap (2 ea.) • Lens cap (mounted on lens) • Memory card • Power supply, incl. multi-plugs • Printed documentation • Shoulder strap • USB cable • Wi-Fi USB micro adapter (depending on CE and FCC regulations regarding wireless equipment for your country)
Packaging, weight	
Packaging, size	400 x 190 x 510 mm (15.7 x 7.5 x 20.1 in.)

Supplies & accessories:

- T197386; IR lens, 24° with case for GF304, GF306
- T197384; IR lens, 14.5° with case for GF304, GF306
- T197692; Battery charger, incl. power supply with multi plugs
- T910814; Power supply, incl. multi plugs
- T198511; Li-Ion Battery pack 7.4V 33Wh
- T199367ACC; Battery Li-ion 7.2 V, 4.4 Ah, 32 Wh
- T199183ACC; Battery
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910815ACC; HDMI to HDMI cable 1.5 m
- T910816ACC; HDMI to DVI cable 1.5 m
- T197555; Hard transport case for FLIR GF3xx-Series
- T951387; Wi-Fi USB micro adapter
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- T198585; FLIR VideoReport
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

The FLIR GF304 is an infrared camera for optical gas imaging (OGI) that visualizes and pinpoints leaks of refrigerant gases, without the need to shut down the operation. This portable camera also greatly improves operator safety, by detecting gases at a safe distance, and helps to protect the environment by tracing leaks of environmentally harmful gases.

Refrigerant gases are found in, for example, the food, chemical/petrochemical, and automotive industries, as well as in air-conditioning systems.

Benefits:

- **Improved efficiency:** The FLIR GF304 reduces revenue loss by pinpointing even small gas leaks quickly and efficiently, and from a distance. It also reduces the inspection time by being able to scan a broad area rapidly without the need to interrupt the industrial process. The wireless connectivity of the camera allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The FLIR GF304 can also be used for temperature measurement, which makes it even more useful for predictive maintenance.
- **Increased worker safety:** The leak detection of gases can be performed in non-contact mode, and from a safe distance. This reduces the risk of the user being exposed to invisible and potentially harmful or explosive chemicals. With a FLIR GF304 gas-imaging camera it is easy to scan areas of interest that are difficult to reach with conventional methods. The camera is ergonomically designed, with a bright LCD and a tiltable viewfinder, which facilitates its use over a full working day.
- **Protecting the environment:** Several refrigerant gases have a high global warming potential and are usually governed by regulations. Even small leaks can be detected and documented using the FLIR GF304 camera.

Detects the following refrigerant gases: R404A, R407C, R410A, R134A, R417A, R422A, R507A, R143A, R125, R245fa.

Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<15 mK @ +30°C (+86°F)
Field of view (FOV)	14.5° × 10.8°
Minimum focus distance	0.5 m (1.64 ft.)
Focal length	38 mm (1.49 in.)
Lens identification	Automatic
F-number	1.5
Focus	Automatic (one touch) or manual (electric or on the lens)
Zoom	1–8× continuous, digital zoom
Digital image enhancement	Noise reduction filter, high sensitivity mode (HSM)

Detector data

Detector type	Focal plane array (FPA), cooled QWIP
Spectral range	8.0–8.6 μm



FLIR GF304 14.5° Fixed lens

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Website

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Customer support

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Detector data	
Detector pitch	30 µm
Sensor cooling	Stirling Microcooler (FLIR MC-3)
Detects following gases	R404A, R407C, R410A, R417A, R422A, R507A, R143A, R125, R134A, R245fa

Electronics and data rate	
Full frame rate	60 Hz

Image presentation	
Display	Built-in widescreen, 4.3 in. LCD, 800 × 480 pixels
Viewfinder	Built-in, tiltable OLED, 800 × 480 pixels
Automatic image adjustment	Continuous/manual; linear or histogram based
Manual image adjustment	Level/span

Image presentation modes	
Image modes	IR image, visual image, high sensitivity mode (HSM)

Measurement	
Temperature range	-20°C to +250°C (-4°F to +482°F)
Accuracy	±1°C (±1.8°F) for temperature range (0°C, to +100°C, +32°F to +212°F) or ±2% of reading for temperature range (>+100°C, >+212°F)

Measurement analysis	
Spotmeter	10
Area	5 boxes with max./min./average
Profile	1 live line (horizontal or vertical)
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from editable materials list
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
Measurement corrections	Reflected temperature, distance, atmospheric transmission, humidity, external optics

Set-up	
Menu commands	Level, span Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image
Color palettes	Iron, Gray, Rainbow, Arctic, Lava, Rainbow HC
Set-up commands	1 programmable button, overlay recording mode, local adaptation of units, language, date and time formats



FLIR GF304 14.5° Fixed lens

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Website

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Customer support

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Storage of images	
Storage media	Removable SD or SDHC memory card , two card slots
Image storage capacity	> 1200 images (JPEG) with post process capability per GB on memory card
Image storage mode	IR/visual images Visual image can automatically be associated with corresponding IR image
Periodic image storage	Every 10 seconds up to 24 hours
File formats	Standard JPEG, 14 bit measurement data included

Geographic Information System	
GPS	Location data automatically added to every image from built-in GPS

Video recording in camera	
Radiometric IR video recording	*.seq video clips to memory card (7.5 and 15 Hz).
Non-radiometric IR video recording	MPEG4 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR video.
Visual video recording	MPEG4 (25 minutes/clip) to memory card

Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB cable or to mobile devices using Wi-Fi. PC software capable of displaying the video stream include the following: <ul style="list-style-type: none">• FLIR IR Camera Player• FLIR ResearchIR• FLIR Tools
Non-radiometric IR video streaming	RTP/MPEG4

Digital camera	
Built-in digital camera	3.2 Mpixels, auto focus, and two video lamps

Laser pointer	
Laser	Activated by dedicated button
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

USB	
USB	<ul style="list-style-type: none">• USB-A: Connect external USB device• USB Mini-B: Data transfer to and from PC
USB, standard	USB Mini-B: 2.0 high speed

Composite video	
Video out	Digital video output (image)

Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	7.2 V



FLIR GF304 14.5° Fixed lens

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Customer support

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Power system	
Battery capacity	4.4 Ah
Battery operating time	> 3 hours at 25°C (+77°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 95% capacity, charging status indicated by LED's
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
DC operation	10.8 to 16 V DC, polarity protected (proprietary protected)
Power	8.5 W typically
Start-up time	Typically 8 min. @ 25°C (+77°F)

Environmental data	
Operating temperature range	–20°C to +40°C (–4°F to +104°F)
Storage temperature range	–30°C to +60°C (–22°F to +140°F)
Humidity (operating and storage)	IEC 68-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) (2 cycles)
Directives	<ul style="list-style-type: none">• 73/23EEC• 2004/108/EC• 2002/95/EC• 2002/96/EC
EMC	<ul style="list-style-type: none">• EN61000-6-4 (Emission)• EN61000-6-2 (Immunity)• FCC 47 CFR Part 15 class A (Emission)• EN 61 000-4-8, L5
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	Power supply: EN/UL/IEC 60950-1

Physical data	
Camera weight, excl. lens and battery	1.94 kg (4.27 lb.)
Camera weight, incl. lens and excl. battery	2.24 kg (4.94 lb.)
Camera weight, incl. lens and battery	2.48 kg (5.47 lb.)
Battery weight	0.24 kg (0.52 lb.)
Camera size, excl. lens (L × W × H)	284 × 169 × 161 mm (11.2 × 6.7 × 6.3 in.)
Cameras size, incl. lens (L × W × H)	305 × 169 × 161 mm (12.0 × 6.7 × 6.3 in.)
Battery size (L × W × H)	141 × 47 × 28 mm (5.5 × 1.8 × 1.1 in.)
Battery charger size (L × W × H)	158 × 122 × 25 mm (6.2 × 4.8 × 1.0 in.)
Tripod mounting	UNC ¼"-20
Housing material	Aluminum, magnesium
Grip material	TPE thermoplastic elastomers

Shipping information	
Packaging, type	Cardboard box



FLIR GF304 14.5° Fixed lens

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>**Shipping information**

List of contents	<ul style="list-style-type: none"> • Infrared camera with lens • Battery charger • Battery, 2 ea. • Hard transport case • HDMI-DVI cable • HDMI-HDMI cable • Lens cap (mounted on lens) • Memory card • Power supply, incl. multi-plugs • Printed documentation • Shoulder strap • USB cable • Wi-Fi USB micro adapter (depending on CE and FCC regulations regarding wireless equipment for your country)
Packaging, weight	
Packaging, size	400 × 190 × 510 mm (15.7 × 7.5 × 20.1 in.)

Supplies & accessories:

- T197692; Battery charger, incl. power supply with multi plugs
- T910814; Power supply, incl. multi plugs
- T198511; Li-Ion Battery pack 7.4V 33Wh
- T199367ACC; Battery Li-ion 7.2 V, 4.4 Ah, 32 Wh
- T199183ACC; Battery
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910815ACC; HDMI to HDMI cable 1.5 m
- T910816ACC; HDMI to DVI cable 1.5 m
- T197555; Hard transport case for FLIR GF3xx-Series
- T951387; Wi-Fi USB micro adapter
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- T198585; FLIR VideoReport
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

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Website

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General description

The FLIR GF304 is an infrared camera for optical gas imaging (OGI) that visualizes and pinpoints leaks of refrigerant gases, without the need to shut down the operation. This portable camera also greatly improves operator safety, by detecting gases at a safe distance, and helps to protect the environment by tracing leaks of environmentally harmful gases.

Refrigerant gases are found in, for example, the food, chemical/petrochemical, and automotive industries, as well as in air-conditioning systems.

Benefits:

- **Improved efficiency:** The FLIR GF304 reduces revenue loss by pinpointing even small gas leaks quickly and efficiently, and from a distance. It also reduces the inspection time by being able to scan a broad area rapidly without the need to interrupt the industrial process. The wireless connectivity of the camera allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The FLIR GF304 can also be used for temperature measurement, which makes it even more useful for predictive maintenance.
- **Increased worker safety:** The leak detection of gases can be performed in non-contact mode, and from a safe distance. This reduces the risk of the user being exposed to invisible and potentially harmful or explosive chemicals. With a FLIR GF304 gas-imaging camera it is easy to scan areas of interest that are difficult to reach with conventional methods. The camera is ergonomically designed, with a bright LCD and a tiltable viewfinder, which facilitates its use over a full working day.
- **Protecting the environment:** Several refrigerant gases have a high global warming potential and are usually governed by regulations. Even small leaks can be detected and documented using the FLIR GF304 camera.

Detects the following refrigerant gases: R404A, R407C, R410A, R134A, R417A, R422A, R507A, R143A, R125, R245fa.

Licensing and classification

License information

Interchangeable lens version of the FLIR GF3XX series requires US Department of State License and will be subject to limitations on resale, except inside US. Allow a minimum of 90 days after application submittal for approval.

Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<15 mK @ +30°C (+86°F)
Field of view (FOV)	24° × 18°
Minimum focus distance	0.3 m (1.0 ft.)
Focal length	23 mm (0.89 in.)
Lens identification	Automatic
F-number	1.5
Focus	Automatic (one touch) or manual (electric or on the lens)
Zoom	1–8x continuous, digital zoom



FLIR GF304 24°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Imaging and optical data	
Digital image enhancement	Noise reduction filter, high sensitivity mode (HSM)

Detector data	
Detector type	Focal plane array (FPA), cooled QWIP
Spectral range	8.0–8.6 μm
Detector pitch	30 μm
Sensor cooling	Stirling Microcooler (FLIR MC-3)
Detects following gases	R404A, R407C, R410A, R417A, R422A, R507A, R143A, R125, R134A, R245fa

Electronics and data rate	
Full frame rate	60 Hz

Image presentation	
Display	Built-in widescreen, 4.3 in. LCD, 800 × 480 pixels
Viewfinder	Built-in, tiltable OLED, 800 × 480 pixels
Automatic image adjustment	Continuous/manual; linear or histogram based
Manual image adjustment	Level/span

Image presentation modes	
Image modes	IR image, visual image, high sensitivity mode (HSM)

Measurement	
Temperature range	–20°C to +250°C (–4°F to +482°F)
Accuracy	$\pm 1^\circ\text{C}$ ($\pm 1.8^\circ\text{F}$) for temperature range (0°C, to +100°C, +32°F to +212°F) or $\pm 2\%$ of reading for temperature range (>+100°C, >+212°F)

Measurement analysis	
Spotmeter	10
Area	5 boxes with max./min./average
Profile	1 live line (horizontal or vertical)
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from editable materials list
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
Measurement corrections	Reflected temperature, distance, atmospheric transmission, humidity, external optics



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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Set-up	
Menu commands	Level, span Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image
Color palettes	Iron, Gray, Rainbow, Arctic, Lava, Rainbow HC
Set-up commands	1 programmable button, overlay recording mode, local adaptation of units, language, date and time formats

Storage of images	
Storage media	Removable SD or SDHC memory card , two card slots
Image storage capacity	> 1200 images (JPEG) with post process capability per GB on memory card
Image storage mode	IR/visual images Visual image can automatically be associated with corresponding IR image
Periodic image storage	Every 10 seconds up to 24 hours
File formats	Standard JPEG, 14 bit measurement data included

Geographic Information System	
GPS	Location data automatically added to every image from built-in GPS

Video recording in camera	
Radiometric IR video recording	*.seq video clips to memory card (7.5 and 15 Hz).
Non-radiometric IR video recording	MPEG4 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR video.
Visual video recording	MPEG4 (25 minutes/clip) to memory card

Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB cable or to mobile devices using Wi-Fi. PC software capable of displaying the video stream include the following: <ul style="list-style-type: none">• FLIR IR Camera Player• FLIR ResearchIR• FLIR Tools
Non-radiometric IR video streaming	RTP/MPEG4

Digital camera	
Built-in digital camera	3.2 Mpixels, auto focus, and two video lamps

Laser pointer	
Laser	Activated by dedicated button
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)



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Website

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Customer support

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USB	
USB	<ul style="list-style-type: none"> • USB-A: Connect external USB device • USB Mini-B: Data transfer to and from PC
USB, standard	USB Mini-B: 2.0 high speed

Composite video	
Video out	Digital video output (image)

Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	7.2 V
Battery capacity	4.4 Ah
Battery operating time	> 3 hours at 25°C (+77°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 95% capacity, charging status indicated by LED's
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
DC operation	10.8 to 16 V DC, polarity protected (proprietary protected)
Power	8.5 W typically
Start-up time	Typically 8 min. @ 25°C (+77°F)

Environmental data	
Operating temperature range	–20°C to +40°C (–4°F to +104°F)
Storage temperature range	–30°C to +60°C (–22°F to +140°F)
Humidity (operating and storage)	IEC 68-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) (2 cycles)
Directives	<ul style="list-style-type: none"> • 73/23EEC • 2004/108/EC • 2002/95/EC • 2002/96/EC
EMC	<ul style="list-style-type: none"> • EN61000-6-4 (Emission) • EN61000-6-2 (Immunity) • FCC 47 CFR Part 15 class A (Emission) • EN 61 000-4-8, L5
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	Power supply: EN/UL/IEC 60950-1

Physical data	
Camera weight, excl. lens and battery	1.94 kg (4.27 lb.)
Camera weight, incl. lens and excl. battery	2.24 kg (4.94 lb.)
Camera weight, incl. lens and battery	2.48 kg (5.47 lb.)
Battery weight	0.24 kg (0.52 lb.)
Camera size, excl. lens (L × W × H)	284 × 169 × 161 mm (11.2 × 6.7 × 6.3 in.)
Cameras size, incl. lens (L × W × H)	306 × 169 × 161 mm (12.0 × 6.7 × 6.3 in.)
Battery size (L × W × H)	141 × 47 × 28 mm (5.5 × 1.8 × 1.1 in.)



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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Physical data	
Battery charger size (L x W x H)	158 x 122 x 25 mm (6.2 x 4.8 x 1.0 in.)
Tripod mounting	UNC 1/4"-20
Housing material	Aluminum, magnesium
Grip material	TPE thermoplastic elastomers

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery charger• Battery, 2 ea.• Hard transport case• HDMI-DVI cable• HDMI-HDMI cable• Lens cap (2 ea.)• Lens cap (mounted on lens)• Memory card• Power supply, incl. multi-plugs• Printed documentation• Shoulder strap• USB cable• Wi-Fi USB micro adapter (depending on CE and FCC regulations regarding wireless equipment for your country)
Packaging, weight	
Packaging, size	400 x 190 x 510 mm (15.7 x 7.5 x 20.1 in.)

Supplies & accessories:

- T197386; IR lens, 24° with case for GF304, GF306
- T197384; IR lens, 14.5° with case for GF304, GF306
- T197692; Battery charger, incl. power supply with multi plugs
- T910814; Power supply, incl. multi plugs
- T198511; Li-Ion Battery pack 7.4V 33Wh
- T199367ACC; Battery Li-ion 7.2 V, 4.4 Ah, 32 Wh
- T199183ACC; Battery
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910815ACC; HDMI to HDMI cable 1.5 m
- T910816ACC; HDMI to DVI cable 1.5 m
- T197555; Hard transport case for FLIR GF3xx-Series
- T951387; Wi-Fi USB micro adapter
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- T198585; FLIR VideoReport
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

The FLIR GF304 is an infrared camera for optical gas imaging (OGI) that visualizes and pinpoints leaks of refrigerant gases, without the need to shut down the operation. This portable camera also greatly improves operator safety, by detecting gases at a safe distance, and helps to protect the environment by tracing leaks of environmentally harmful gases.

Refrigerant gases are found in, for example, the food, chemical/petrochemical, and automotive industries, as well as in air-conditioning systems.

Benefits:

- **Improved efficiency:** The FLIR GF304 reduces revenue loss by pinpointing even small gas leaks quickly and efficiently, and from a distance. It also reduces the inspection time by being able to scan a broad area rapidly without the need to interrupt the industrial process. The wireless connectivity of the camera allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The FLIR GF304 can also be used for temperature measurement, which makes it even more useful for predictive maintenance.
- **Increased worker safety:** The leak detection of gases can be performed in non-contact mode, and from a safe distance. This reduces the risk of the user being exposed to invisible and potentially harmful or explosive chemicals. With a FLIR GF304 gas-imaging camera it is easy to scan areas of interest that are difficult to reach with conventional methods. The camera is ergonomically designed, with a bright LCD and a tiltable viewfinder, which facilitates its use over a full working day.
- **Protecting the environment:** Several refrigerant gases have a high global warming potential and are usually governed by regulations. Even small leaks can be detected and documented using the FLIR GF304 camera.

Detects the following refrigerant gases: R404A, R407C, R410A, R134A, R417A, R422A, R507A, R143A, R125, R245fa.

Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<15 mK @ +30°C (+86°F)
Field of view (FOV)	24° × 18°
Minimum focus distance	0.3 m (1.0 ft.)
Focal length	23 mm (0.89 in.)
Lens identification	Automatic
F-number	1.5
Focus	Automatic (one touch) or manual (electric or on the lens)
Zoom	1–8× continuous, digital zoom
Digital image enhancement	Noise reduction filter, high sensitivity mode (HSM)

Detector data

Detector type	Focal plane array (FPA), cooled QWIP
Spectral range	8.0–8.6 μm

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Detector data	
Detector pitch	30 µm
Sensor cooling	Stirling Microcooler (FLIR MC-3)
Detects following gases	R404A, R407C, R410A, R417A, R422A, R507A, R143A, R125, R134A, R245fa

Electronics and data rate	
Full frame rate	60 Hz

Image presentation	
Display	Built-in widescreen, 4.3 in. LCD, 800 × 480 pixels
Viewfinder	Built-in, tiltable OLED, 800 × 480 pixels
Automatic image adjustment	Continuous/manual; linear or histogram based
Manual image adjustment	Level/span

Image presentation modes	
Image modes	IR image, visual image, high sensitivity mode (HSM)

Measurement	
Temperature range	-20°C to +250°C (-4°F to +482°F)
Accuracy	±1°C (±1.8°F) for temperature range (0°C, to +100°C, +32°F to +212°F) or ±2% of reading for temperature range (>+100°C, >+212°F)

Measurement analysis	
Spotmeter	10
Area	5 boxes with max./min./average
Profile	1 live line (horizontal or vertical)
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from editable materials list
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
Measurement corrections	Reflected temperature, distance, atmospheric transmission, humidity, external optics

Set-up	
Menu commands	Level, span Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image
Color palettes	Iron, Gray, Rainbow, Arctic, Lava, Rainbow HC
Set-up commands	1 programmable button, overlay recording mode, local adaptation of units, language, date and time formats



FLIR GF304 24° Fixed lens

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Customer support

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Storage of images	
Storage media	Removable SD or SDHC memory card , two card slots
Image storage capacity	> 1200 images (JPEG) with post process capability per GB on memory card
Image storage mode	IR/visual images Visual image can automatically be associated with corresponding IR image
Periodic image storage	Every 10 seconds up to 24 hours
File formats	Standard JPEG, 14 bit measurement data included

Geographic Information System	
GPS	Location data automatically added to every image from built-in GPS

Video recording in camera	
Radiometric IR video recording	*.seq video clips to memory card (7.5 and 15 Hz).
Non-radiometric IR video recording	MPEG4 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR video.
Visual video recording	MPEG4 (25 minutes/clip) to memory card

Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB cable or to mobile devices using Wi-Fi. PC software capable of displaying the video stream include the following: <ul style="list-style-type: none">• FLIR IR Camera Player• FLIR ResearchIR• FLIR Tools
Non-radiometric IR video streaming	RTP/MPEG4

Digital camera	
Built-in digital camera	3.2 Mpixels, auto focus, and two video lamps

Laser pointer	
Laser	Activated by dedicated button
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

USB	
USB	<ul style="list-style-type: none">• USB-A: Connect external USB device• USB Mini-B: Data transfer to and from PC
USB, standard	USB Mini-B: 2.0 high speed

Composite video	
Video out	Digital video output (image)

Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	7.2 V



FLIR GF304 24° Fixed lens

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Customer support

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Power system	
Battery capacity	4.4 Ah
Battery operating time	> 3 hours at 25°C (+77°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 95% capacity, charging status indicated by LED's
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
DC operation	10.8 to 16 V DC, polarity protected (proprietary protected)
Power	8.5 W typically
Start-up time	Typically 8 min. @ 25°C (+77°F)

Environmental data	
Operating temperature range	–20°C to +40°C (–4°F to +104°F)
Storage temperature range	–30°C to +60°C (–22°F to +140°F)
Humidity (operating and storage)	IEC 68-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) (2 cycles)
Directives	<ul style="list-style-type: none">• 73/23EEC• 2004/108/EC• 2002/95/EC• 2002/96/EC
EMC	<ul style="list-style-type: none">• EN61000-6-4 (Emission)• EN61000-6-2 (Immunity)• FCC 47 CFR Part 15 class A (Emission)• EN 61 000-4-8, L5
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	Power supply: EN/UL/IEC 60950-1

Physical data	
Camera weight, excl. lens and battery	1.94 kg (4.27 lb.)
Camera weight, incl. lens and excl. battery	2.24 kg (4.94 lb.)
Camera weight, incl. lens and battery	2.48 kg (5.47 lb.)
Battery weight	0.24 kg (0.52 lb.)
Camera size, excl. lens (L × W × H)	284 × 169 × 161 mm (11.2 × 6.7 × 6.3 in.)
Cameras size, incl. lens (L × W × H)	306 × 169 × 161 mm (12.0 × 6.7 × 6.3 in.)
Battery size (L × W × H)	141 × 47 × 28 mm (5.5 × 1.8 × 1.1 in.)
Battery charger size (L × W × H)	158 × 122 × 25 mm (6.2 × 4.8 × 1.0 in.)
Tripod mounting	UNC ¼"-20
Housing material	Aluminum, magnesium
Grip material	TPE thermoplastic elastomers

Shipping information	
Packaging, type	Cardboard box



FLIR GF304 24° Fixed lens

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>**Shipping information**

List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery charger• Battery, 2 ea.• Hard transport case• HDMI-DVI cable• HDMI-HDMI cable• Lens cap (mounted on lens)• Memory card• Power supply, incl. multi-plugs• Printed documentation• Shoulder strap• USB cable• Wi-Fi USB micro adapter (depending on CE and FCC regulations regarding wireless equipment for your country)
Packaging, weight	
Packaging, size	400 × 190 × 510 mm (15.7 × 7.5 × 20.1 in.)

Supplies & accessories:

- T197692; Battery charger, incl. power supply with multi plugs
- T910814; Power supply, incl. multi plugs
- T198511; Li-Ion Battery pack 7.4V 33Wh
- T199367ACC; Battery Li-ion 7.2 V, 4.4 Ah, 32 Wh
- T199183ACC; Battery
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910815ACC; HDMI to HDMI cable 1.5 m
- T910816ACC; HDMI to DVI cable 1.5 m
- T197555; Hard transport case for FLIR GF3xx-Series
- T951387; Wi-Fi USB micro adapter
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- T198585; FLIR VideoReport
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

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Website

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Customer support

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General description

The FLIR GF306 is an infrared camera for optical gas imaging (OGI) that visualizes and pinpoints gas leaks—especially of sulfur hexafluoride (SF₆) and ammonia—without the need to de-energize high-voltage equipment or shut down the operation. The portable camera also greatly improves operator safety by detecting emissions at a safe distance, and helps to protect the environment by tracing leaks of environmentally harmful gases.

SF₆ is used in the electric power industry as an insulator and quenching medium for gas-insulated substations and circuit breakers. The gas is also used in magnesium production and semiconductor manufacture. Ammonia is produced in ammonia plants, and is used mainly for the production of fertilizers.

Benefits:

- **Improved efficiency:** The FLIR GF306 reduces revenue loss by pinpointing even small gas leaks quickly and efficiently, and from a distance. It also reduces inspection time by allowing a broad area to be scanned rapidly and without the need to de-energize components in the high-voltage area. The wireless connectivity of the camera allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The FLIR GF306 can also be used for temperature measurement, which makes it even more useful for the predictive maintenance of high-voltage equipment.
- **Increased worker safety:** OGI allows gas leaks to be detected in a non-contact mode and from a safe distance. This prevents electrical exposure to personnel working in a high-voltage area. With a GF306 gas imaging camera, it is easy to scan areas of interest that are difficult to reach with conventional methods. The camera is ergonomically designed, with a bright LCD and tiltable viewfinder, which facilitates its use over a full working day.
- **Protecting the environment:** SF₆ is a well-known greenhouse gas that causes harm to the environment, and is usually governed by regulations. SF₆ has a global warming potential 24000 times higher than carbon dioxide. Even small leaks can be detected and documented using the FLIR GF306 camera.

Detects the following gases: sulfur hexafluoride, acetyl chloride, acetic acid, allyl bromide, allyl chloride, allyl fluoride, ammonia, bromomethane, chlorine dioxide, ethyl cyanoacrylate, ethylene, furan, hydrazine, methylsilane, methyl ethyl ketone, methyl vinyl ketone, propenal, propene, R-134a, tetrahydrofuran, trichloroethylene, uranyl fluoride, vinyl chloride, vinyl cyanide, vinyl ether.

Licensing and classification

License information	Interchangeable lens version of the FLIR GF3XX series requires US Department of State License and will be subject to limitations on resale, except inside US. Allow a minimum of 90 days after application submittal for approval.
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Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<15 mK @ +30°C (+86°F)
Field of view (FOV)	14.5° × 10.8°
Minimum focus distance	0.5 m (1.64 ft.)
Focal length	38 mm (1.49 in.)
Lens identification	Automatic
F-number	1.5

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Website
<http://www.flir.com>
Customer support
<http://support.flir.com>

Imaging and optical data	
Focus	Automatic (one touch) or manual (electric or on the lens)
Zoom	1–8× continuous, digital zoom
Digital image enhancement	Noise reduction filter, high sensitivity mode (HSM)

Detector data	
Detector type	Focal plane array (FPA), cooled QWIP
Spectral range	10.3–10.7 μm
Detector pitch	30 μm
Sensor cooling	Stirling Microcooler (FLIR MC-3)
Detects following gases	Sulfur Hexafluoride (SF ₆), Acetyl Chloride, Acetic Acid, Allyl Bromide, Allyl Chloride, Allyl Fluoride, Ammonia (NH ₃), Bromomethane, Chlorine Dioxide, Ethyl Cyanoacrylate, Ethylene, Furan, Hydrazine, Methylsilane, Methyl Ethyl Ketone, Methyl Vinyl Ketone, Propenal, Propene, R 134a, Tetrahydrofuran, Trichloroethylene, Uranyl Fluoride, Vinyl Chloride, Vinyl Cyanide, Vinyl Ether

Electronics and data rate	
Full frame rate	60 Hz

Image presentation	
Display	Built-in widescreen, 4.3 in. LCD, 800 × 480 pixels
Viewfinder	Built-in, tiltable OLED, 800 × 480 pixels
Automatic image adjustment	Continuous/manual; linear or histogram based
Manual image adjustment	Level/span

Image presentation modes	
Image modes	IR image, visual image, high sensitivity mode (HSM)

Measurement	
Temperature range	–40°C to +500°C (–40°F to +932°F)
Accuracy	±1°C (±1.8°F) for temperature range (0°C, to +100°C, +32°F to +212°F) or ±2% of reading for temperature range (>+100°C, >+212°F)

Measurement analysis	
Spotmeter	10
Area	5 boxes with max./min./average
Profile	1 live line (horizontal or vertical)
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from editable materials list
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
Measurement corrections	Reflected temperature, distance, atmospheric transmission, humidity, external optics



FLIR GF306 14.5°

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Website

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Customer support

<http://support.flir.com>

Set-up	
Menu commands	Level, span Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image
Color palettes	Iron, Gray, Rainbow, Arctic, Lava, Rainbow HC
Set-up commands	1 programmable button, overlay recording mode, local adaptation of units, language, date and time formats

Storage of images	
Storage media	Removable SD or SDHC memory card , two card slots
Image storage capacity	> 1200 images (JPEG) with post process capability per GB on memory card
Image storage mode	IR/visual images Visual image can automatically be associated with corresponding IR image
Periodic image storage	Every 10 seconds up to 24 hours
File formats	Standard JPEG, 14 bit measurement data included

Geographic Information System	
GPS	Location data automatically added to every image from built-in GPS

Video recording in camera	
Radiometric IR video recording	*.seq video clips to memory card (7.5 and 15 Hz).
Non-radiometric IR video recording	MPEG4 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR video.
Visual video recording	MPEG4 (25 minutes/clip) to memory card

Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB cable or to mobile devices using Wi-Fi. PC software capable of displaying the video stream include the following: <ul style="list-style-type: none">• FLIR IR Camera Player• FLIR ResearchIR• FLIR Tools
Non-radiometric IR video streaming	RTP/MPEG4

Digital camera	
Built-in digital camera	3.2 Mpixels, auto focus, and two video lamps

Laser pointer	
Laser	Activated by dedicated button
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)



FLIR GF306 14.5°

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USB	
USB	<ul style="list-style-type: none"> • USB-A: Connect external USB device • USB Mini-B: Data transfer to and from PC
USB, standard	USB Mini-B: 2.0 high speed

Composite video	
Video out	Digital video output (image)

Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	7.2 V
Battery capacity	4.4 Ah
Battery operating time	> 2 hours at 25°C (+77°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 95% capacity, charging status indicated by LED's
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
DC operation	10.8 to 16 V DC, polarity protected (proprietary protected)
Power	12.5 W typically
Start-up time	Typically 10 min. @ 25°C (+77°F)

Environmental data	
Operating temperature range	-20°C to +40°C (-4°F to +104°F)
Storage temperature range	-30°C to +60°C (-22°F to +140°F)
Humidity (operating and storage)	IEC 68-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) (2 cycles)
Directives	<ul style="list-style-type: none"> • 73/23EEC • 2004/108/EC • 2002/95/EC • 2002/96/EC
EMC	<ul style="list-style-type: none"> • EN61000-6-4 (Emission) • EN61000-6-2 (Immunity) • FCC 47 CFR Part 15 class A (Emission) • EN 61 000-4-8, L5
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	Power supply: EN/UL/IEC 60950-1

Physical data	
Camera weight, excl. lens and battery	1.94 kg (4.27 lb.)
Camera weight, incl. lens and excl. battery	2.24 kg (4.94 lb.)
Camera weight, incl. lens and battery	2.48 kg (5.47 lb.)
Battery weight	0.24 kg (0.52 lb.)
Camera size, excl. lens (L × W × H)	284 × 169 × 161 mm (11.2 × 6.7 × 6.3 in.)
Cameras size, incl. lens (L × W × H)	305 × 169 × 161 mm (12.0 × 6.7 × 6.3 in.)
Battery size (L × W × H)	141 × 47 × 28 mm (5.5 × 1.8 × 1.1 in.)



FLIR GF306 14.5°

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Website

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Physical data	
Battery charger size (L x W x H)	158 x 122 x 25 mm (6.2 x 4.8 x 1.0 in.)
Tripod mounting	UNC 1/4"-20
Housing material	Aluminum, magnesium
Grip material	TPE thermoplastic elastomers

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery charger• Battery, 2 ea.• Hard transport case• HDMI-DVI cable• HDMI-HDMI cable• Lens cap (2 ea.)• Lens cap (mounted on lens)• Memory card• Power supply, incl. multi-plugs• Printed documentation• Shoulder strap• USB cable• Wi-Fi USB micro adapter (depending on CE and FCC regulations regarding wireless equipment for your country)
Packaging, weight	
Packaging, size	400 x 190 x 510 mm (15.7 x 7.5 x 20.1 in.)

Supplies & accessories:

- T197386; IR lens, 24° with case for GF304, GF306
- T197384; IR lens, 14.5° with case for GF304, GF306
- T197692; Battery charger, incl. power supply with multi plugs
- T910814; Power supply, incl. multi plugs
- T198511; Li-Ion Battery pack 7.4V 33Wh
- T199367ACC; Battery Li-ion 7.2 V, 4.4 Ah, 32 Wh
- T199183ACC; Battery
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910815ACC; HDMI to HDMI cable 1.5 m
- T910816ACC; HDMI to DVI cable 1.5 m
- T197555; Hard transport case for FLIR GF3xx-Series
- T951387; Wi-Fi USB micro adapter
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- T198585; FLIR VideoReport
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

The FLIR GF306 is an infrared camera for optical gas imaging (OGI) that visualizes and pinpoints gas leaks—especially of sulfur hexafluoride (SF₆) and ammonia—without the need to de-energize high-voltage equipment or shut down the operation. The portable camera also greatly improves operator safety by detecting emissions at a safe distance, and helps to protect the environment by tracing leaks of environmentally harmful gases.

SF₆ is used in the electric power industry as an insulator and quenching medium for gas-insulated substations and circuit breakers. The gas is also used in magnesium production and semiconductor manufacture. Ammonia is produced in ammonia plants, and is used mainly for the production of fertilizers.

Benefits:

- **Improved efficiency:** The FLIR GF306 reduces revenue loss by pinpointing even small gas leaks quickly and efficiently, and from a distance. It also reduces inspection time by allowing a broad area to be scanned rapidly and without the need to de-energize components in the high-voltage area. The wireless connectivity of the camera allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The FLIR GF306 can also be used for temperature measurement, which makes it even more useful for the predictive maintenance of high-voltage equipment.
- **Increased worker safety:** OGI allows gas leaks to be detected in a non-contact mode and from a safe distance. This prevents electrical exposure to personnel working in a high-voltage area. With a GF306 gas imaging camera, it is easy to scan areas of interest that are difficult to reach with conventional methods. The camera is ergonomically designed, with a bright LCD and tiltable viewfinder, which facilitates its use over a full working day.
- **Protecting the environment:** SF₆ is a well-known greenhouse gas that causes harm to the environment, and is usually governed by regulations. SF₆ has a global warming potential 24000 times higher than carbon dioxide. Even small leaks can be detected and documented using the FLIR GF306 camera.

Detects the following gases: sulfur hexafluoride, acetyl chloride, acetic acid, allyl bromide, allyl chloride, allyl fluoride, ammonia, bromomethane, chlorine dioxide, ethyl cyanoacrylate, ethylene, furan, hydrazine, methylsilane, methyl ethyl ketone, methyl vinyl ketone, propenal, propene, R-134a, tetrahydrofuran, trichloroethylene, uranyl fluoride, vinyl chloride, vinyl cyanide, vinyl ether.

Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<15 mK @ +30°C (+86°F)
Field of view (FOV)	14.5° × 10.8°
Minimum focus distance	0.5 m (1.64 ft.)
Focal length	38 mm (1.49 in.)
Lens identification	Automatic
F-number	1.5
Focus	Automatic (one touch) or manual (electric or on the lens)
Zoom	1–8× continuous, digital zoom
Digital image enhancement	Noise reduction filter, high sensitivity mode (HSM)

Detector data

Detector type	Focal plane array (FPA), cooled QWIP
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FLIR GF306 14.5° Fixed lens

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Detector data	
Spectral range	10.3–10.7 μm
Detector pitch	30 μm
Sensor cooling	Stirling Microcooler (FLIR MC-3)
Detects following gases	Sulfur Hexafluoride (SF ₆), Acetyl Chloride, Acetic Acid, Allyl Bromide, Allyl Chloride, Allyl Fluoride, Ammonia (NH ₃), Bromomethane, Chlorine Dioxide, Ethyl Cyanoacrylate, Ethylene, Furan, Hydrazine, Methylsilane, Methyl Ethyl Ketone, Methyl Vinyl Ketone, Propenal, Propene, R 134a, Tetrahydrofuran, Trichloroethylene, Uranyl Fluoride, Vinyl Chloride, Vinyl Cyanide, Vinyl Ether

Electronics and data rate	
Full frame rate	60 Hz

Image presentation	
Display	Built-in widescreen, 4.3 in. LCD, 800 × 480 pixels
Viewfinder	Built-in, tiltable OLED, 800 × 480 pixels
Automatic image adjustment	Continuous/manual; linear or histogram based
Manual image adjustment	Level/span

Image presentation modes	
Image modes	IR image, visual image, high sensitivity mode (HSM)

Measurement	
Temperature range	−40°C to +500°C (−40°F to +932°F)
Accuracy	±1°C (±1.8°F) for temperature range (0°C, to +100°C, +32°F to +212°F) or ±2% of reading for temperature range (>+100°C, >+212°F)

Measurement analysis	
Spotmeter	10
Area	5 boxes with max./min./average
Profile	1 live line (horizontal or vertical)
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from editable materials list
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
Measurement corrections	Reflected temperature, distance, atmospheric transmission, humidity, external optics



FLIR GF306 14.5° Fixed lens

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Website

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Customer support

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Set-up	
Menu commands	Level, span Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image
Color palettes	Iron, Gray, Rainbow, Arctic, Lava, Rainbow HC
Set-up commands	1 programmable button, overlay recording mode, local adaptation of units, language, date and time formats

Storage of images	
Storage media	Removable SD or SDHC memory card , two card slots
Image storage capacity	> 1200 images (JPEG) with post process capability per GB on memory card
Image storage mode	IR/visual images Visual image can automatically be associated with corresponding IR image
Periodic image storage	Every 10 seconds up to 24 hours
File formats	Standard JPEG, 14 bit measurement data included

Geographic Information System	
GPS	Location data automatically added to every image from built-in GPS

Video recording in camera	
Radiometric IR video recording	*.seq video clips to memory card (7.5 and 15 Hz).
Non-radiometric IR video recording	MPEG4 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR video.
Visual video recording	MPEG4 (25 minutes/clip) to memory card

Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB cable or to mobile devices using Wi-Fi. PC software capable of displaying the video stream include the following: <ul style="list-style-type: none">• FLIR IR Camera Player• FLIR ResearchIR• FLIR Tools
Non-radiometric IR video streaming	RTP/MPEG4

Digital camera	
Built-in digital camera	3.2 Mpixels, auto focus, and two video lamps

Laser pointer	
Laser	Activated by dedicated button
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)



FLIR GF306 14.5° Fixed lens

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USB	
USB	<ul style="list-style-type: none">• USB-A: Connect external USB device• USB Mini-B: Data transfer to and from PC
USB, standard	USB Mini-B: 2.0 high speed

Composite video	
Video out	Digital video output (image)

Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	7.2 V
Battery capacity	4.4 Ah
Battery operating time	> 2 hours at 25°C (+77°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 95% capacity, charging status indicated by LED's
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
DC operation	10.8 to 16 V DC, polarity protected (proprietary protected)
Power	12.5 W typically
Start-up time	Typically 10 min. @ 25°C (+77°F)

Environmental data	
Operating temperature range	–20°C to +40°C (–4°F to +104°F)
Storage temperature range	–30°C to +60°C (–22°F to +140°F)
Humidity (operating and storage)	IEC 68-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) (2 cycles)
Directives	<ul style="list-style-type: none">• 73/23EEC• 2004/108/EC• 2002/95/EC• 2002/96/EC
EMC	<ul style="list-style-type: none">• EN61000-6-4 (Emission)• EN61000-6-2 (Immunity)• FCC 47 CFR Part 15 class A (Emission)• EN 61 000-4-8, L5
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	Power supply: EN/UL/IEC 60950-1

Physical data	
Camera weight, excl. lens and battery	1.94 kg (4.27 lb.)
Camera weight, incl. lens and excl. battery	2.24 kg (4.94 lb.)
Camera weight, incl. lens and battery	2.48 kg (5.47 lb.)
Battery weight	0.24 kg (0.52 lb.)
Camera size, excl. lens (L × W × H)	284 × 169 × 161 mm (11.2 × 6.7 × 6.3 in.)
Cameras size, incl. lens (L × W × H)	305 × 169 × 161 mm (12.0 × 6.7 × 6.3 in.)
Battery size (L × W × H)	141 × 47 × 28 mm (5.5 × 1.8 × 1.1 in.)



FLIR GF306 14.5° Fixed lens

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Physical data	
Battery charger size (L x W x H)	158 x 122 x 25 mm (6.2 x 4.8 x 1.0 in.)
Tripod mounting	UNC 1/4"-20
Housing material	Aluminum, magnesium
Grip material	TPE thermoplastic elastomers

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery charger• Battery, 2 ea.• FLIR Tools download• Hard transport case• HDMI-DVI cable• HDMI-HDMI cable• Lens cap (mounted on lens)• Memory card• Power supply, incl. multi-plugs• Printed documentation• Shoulder strap• USB cable• Wi-Fi USB micro adapter (depending on CE and FCC regulations regarding wireless equipment for your country)
Packaging, weight	8.4 kg (18.5 lb.)
Packaging, size	400 x 190 x 510 mm (15.7 x 7.5 x 20.1 in.)

Supplies & accessories:

- T197692; Battery charger, incl. power supply with multi plugs
- T910814; Power supply, incl. multi plugs
- T198511; Li-Ion Battery pack 7.4V 33Wh
- T199367ACC; Battery Li-ion 7.2 V, 4.4 Ah, 32 Wh
- T199183ACC; Battery
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910815ACC; HDMI to HDMI cable 1.5 m
- T910816ACC; HDMI to DVI cable 1.5 m
- T197555; Hard transport case for FLIR GF3xx-Series
- T951387; Wi-Fi USB micro adapter
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- T198585; FLIR VideoReport
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

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General description

The FLIR GF306 is an infrared camera for optical gas imaging (OGI) that visualizes and pinpoints gas leaks—especially of sulfur hexafluoride (SF₆) and ammonia—without the need to de-energize high-voltage equipment or shut down the operation. The portable camera also greatly improves operator safety by detecting emissions at a safe distance, and helps to protect the environment by tracing leaks of environmentally harmful gases.

SF₆ is used in the electric power industry as an insulator and quenching medium for gas-insulated substations and circuit breakers. The gas is also used in magnesium production and semiconductor manufacture. Ammonia is produced in ammonia plants, and is used mainly for the production of fertilizers.

Benefits:

- **Improved efficiency:** The FLIR GF306 reduces revenue loss by pinpointing even small gas leaks quickly and efficiently, and from a distance. It also reduces inspection time by allowing a broad area to be scanned rapidly and without the need to de-energize components in the high-voltage area. The wireless connectivity of the camera allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The FLIR GF306 can also be used for temperature measurement, which makes it even more useful for the predictive maintenance of high-voltage equipment.
- **Increased worker safety:** OGI allows gas leaks to be detected in a non-contact mode and from a safe distance. This prevents electrical exposure to personnel working in a high-voltage area. With a GF306 gas imaging camera, it is easy to scan areas of interest that are difficult to reach with conventional methods. The camera is ergonomically designed, with a bright LCD and tiltable viewfinder, which facilitates its use over a full working day.
- **Protecting the environment:** SF₆ is a well-known greenhouse gas that causes harm to the environment, and is usually governed by regulations. SF₆ has a global warming potential 24000 times higher than carbon dioxide. Even small leaks can be detected and documented using the FLIR GF306 camera.

Detects the following gases: sulfur hexafluoride, acetyl chloride, acetic acid, allyl bromide, allyl chloride, allyl fluoride, ammonia, bromomethane, chlorine dioxide, ethyl cyanoacrylate, ethylene, furan, hydrazine, methylsilane, methyl ethyl ketone, methyl vinyl ketone, propenal, propene, R-134a, tetrahydrofuran, trichloroethylene, uranyl fluoride, vinyl chloride, vinyl cyanide, vinyl ether.

Licensing and classification

License information	Interchangeable lens version of the FLIR GF3XX series requires US Department of State License and will be subject to limitations on resale, except inside US. Allow a minimum of 90 days after application submittal for approval.
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Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<15 mK @ +30°C (+86°F)
Field of view (FOV)	24° × 18°
Minimum focus distance	0.3 m (1.0 ft.)
Focal length	23 mm (0.89 in.)
Lens identification	Automatic
F-number	1.5

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Website
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Customer support
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Imaging and optical data	
Focus	Automatic (one touch) or manual (electric or on the lens)
Zoom	1–8× continuous, digital zoom
Digital image enhancement	Noise reduction filter, high sensitivity mode (HSM)

Detector data	
Detector type	Focal plane array (FPA), cooled QWIP
Spectral range	10.3–10.7 μm
Detector pitch	30 μm
Sensor cooling	Stirling Microcooler (FLIR MC-3)
Detects following gases	Sulfur Hexafluoride (SF ₆), Acetyl Chloride, Acetic Acid, Allyl Bromide, Allyl Chloride, Allyl Fluoride, Ammonia (NH ₃), Bromomethane, Chlorine Dioxide, Ethyl Cyanoacrylate, Ethylene, Furan, Hydrazine, Methylsilane, Methyl Ethyl Ketone, Methyl Vinyl Ketone, Propenal, Propene, R 134a, Tetrahydrofuran, Trichloroethylene, Uranyl Fluoride, Vinyl Chloride, Vinyl Cyanide, Vinyl Ether

Electronics and data rate	
Full frame rate	60 Hz

Image presentation	
Display	Built-in widescreen, 4.3 in. LCD, 800 × 480 pixels
Viewfinder	Built-in, tiltable OLED, 800 × 480 pixels
Automatic image adjustment	Continuous/manual; linear or histogram based
Manual image adjustment	Level/span

Image presentation modes	
Image modes	IR image, visual image, high sensitivity mode (HSM)

Measurement	
Temperature range	–40°C to +500°C (–40°F to +932°F)
Accuracy	±1°C (±1.8°F) for temperature range (0°C, to +100°C, +32°F to +212°F) or ±2% of reading for temperature range (>+100°C, >+212°F)

Measurement analysis	
Spotmeter	10
Area	5 boxes with max./min./average
Profile	1 live line (horizontal or vertical)
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from editable materials list
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
Measurement corrections	Reflected temperature, distance, atmospheric transmission, humidity, external optics



FLIR GF306 24°

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Website

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Customer support

<http://support.flir.com>

Set-up	
Menu commands	Level, span Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image
Color palettes	Iron, Gray, Rainbow, Arctic, Lava, Rainbow HC
Set-up commands	1 programmable button, overlay recording mode, local adaptation of units, language, date and time formats

Storage of images	
Storage media	Removable SD or SDHC memory card , two card slots
Image storage capacity	> 1200 images (JPEG) with post process capability per GB on memory card
Image storage mode	IR/visual images Visual image can automatically be associated with corresponding IR image
Periodic image storage	Every 10 seconds up to 24 hours
File formats	Standard JPEG, 14 bit measurement data included

Geographic Information System	
GPS	Location data automatically added to every image from built-in GPS

Video recording in camera	
Radiometric IR video recording	*.seq video clips to memory card (7.5 and 15 Hz).
Non-radiometric IR video recording	MPEG4 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR video.
Visual video recording	MPEG4 (25 minutes/clip) to memory card

Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB cable or to mobile devices using Wi-Fi. PC software capable of displaying the video stream include the following: <ul style="list-style-type: none">• FLIR IR Camera Player• FLIR ResearchIR• FLIR Tools
Non-radiometric IR video streaming	RTP/MPEG4

Digital camera	
Built-in digital camera	3.2 Mpixels, auto focus, and two video lamps

Laser pointer	
Laser	Activated by dedicated button
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)



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USB	
USB	<ul style="list-style-type: none">• USB-A: Connect external USB device• USB Mini-B: Data transfer to and from PC
USB, standard	USB Mini-B: 2.0 high speed

Composite video	
Video out	Digital video output (image)

Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	7.2 V
Battery capacity	4.4 Ah
Battery operating time	> 2 hours at 25°C (+77°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 95% capacity, charging status indicated by LED's
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
DC operation	10.8 to 16 V DC, polarity protected (proprietary protected)
Power	12.5 W typically
Start-up time	Typically 10 min. @ 25°C (+77°F)

Environmental data	
Operating temperature range	–20°C to +40°C (–4°F to +104°F)
Storage temperature range	–30°C to +60°C (–22°F to +140°F)
Humidity (operating and storage)	IEC 68-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) (2 cycles)
Directives	<ul style="list-style-type: none">• 73/23EEC• 2004/108/EC• 2002/95/EC• 2002/96/EC
EMC	<ul style="list-style-type: none">• EN61000-6-4 (Emission)• EN61000-6-2 (Immunity)• FCC 47 CFR Part 15 class A (Emission)• EN 61 000-4-8, L5
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	Power supply: EN/UL/IEC 60950-1

Physical data	
Camera weight, excl. lens and battery	1.94 kg (4.27 lb.)
Camera weight, incl. lens and excl. battery	2.24 kg (4.94 lb.)
Camera weight, incl. lens and battery	2.48 kg (5.47 lb.)
Battery weight	0.24 kg (0.52 lb.)
Camera size, excl. lens (L × W × H)	284 × 169 × 161 mm (11.2 × 6.7 × 6.3 in.)
Cameras size, incl. lens (L × W × H)	306 × 169 × 161 mm (12.0 × 6.7 × 6.3 in.)
Battery size (L × W × H)	141 × 47 × 28 mm (5.5 × 1.8 × 1.1 in.)



FLIR GF306 24°

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Physical data	
Battery charger size (L x W x H)	158 x 122 x 25 mm (6.2 x 4.8 x 1.0 in.)
Tripod mounting	UNC 1/4"-20
Housing material	Aluminum, magnesium
Grip material	TPE thermoplastic elastomers

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Infrared camera with lens • Battery charger • Battery, 2 ea. • Hard transport case • HDMI-DVI cable • HDMI-HDMI cable • Lens cap (2 ea.) • Lens cap (mounted on lens) • Memory card • Power supply, incl. multi-plugs • Printed documentation • Shoulder strap • USB cable • Wi-Fi USB micro adapter (depending on CE and FCC regulations regarding wireless equipment for your country)
Packaging, weight	
Packaging, size	400 x 190 x 510 mm (15.7 x 7.5 x 20.1 in.)

Supplies & accessories:

- T197386; IR lens, 24° with case for GF304, GF306
- T197384; IR lens, 14.5° with case for GF304, GF306
- T197692; Battery charger, incl. power supply with multi plugs
- T910814; Power supply, incl. multi plugs
- T198511; Li-Ion Battery pack 7.4V 33Wh
- T199367ACC; Battery Li-ion 7.2 V, 4.4 Ah, 32 Wh
- T199183ACC; Battery
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910815ACC; HDMI to HDMI cable 1.5 m
- T910816ACC; HDMI to DVI cable 1.5 m
- T197555; Hard transport case for FLIR GF3xx-Series
- T951387; Wi-Fi USB micro adapter
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- T198585; FLIR VideoReport
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

The FLIR GF306 is an infrared camera for optical gas imaging (OGI) that visualizes and pinpoints gas leaks—especially of sulfur hexafluoride (SF₆) and ammonia—without the need to de-energize high-voltage equipment or shut down the operation. The portable camera also greatly improves operator safety by detecting emissions at a safe distance, and helps to protect the environment by tracing leaks of environmentally harmful gases.

SF₆ is used in the electric power industry as an insulator and quenching medium for gas-insulated substations and circuit breakers. The gas is also used in magnesium production and semiconductor manufacture. Ammonia is produced in ammonia plants, and is used mainly for the production of fertilizers.

Benefits:

- **Improved efficiency:** The FLIR GF306 reduces revenue loss by pinpointing even small gas leaks quickly and efficiently, and from a distance. It also reduces inspection time by allowing a broad area to be scanned rapidly and without the need to de-energize components in the high-voltage area. The wireless connectivity of the camera allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The FLIR GF306 can also be used for temperature measurement, which makes it even more useful for the predictive maintenance of high-voltage equipment.
- **Increased worker safety:** OGI allows gas leaks to be detected in a non-contact mode and from a safe distance. This prevents electrical exposure to personnel working in a high-voltage area. With a GF306 gas imaging camera, it is easy to scan areas of interest that are difficult to reach with conventional methods. The camera is ergonomically designed, with a bright LCD and tiltable viewfinder, which facilitates its use over a full working day.
- **Protecting the environment:** SF₆ is a well-known greenhouse gas that causes harm to the environment, and is usually governed by regulations. SF₆ has a global warming potential 24000 times higher than carbon dioxide. Even small leaks can be detected and documented using the FLIR GF306 camera.

Detects the following gases: sulfur hexafluoride, acetyl chloride, acetic acid, allyl bromide, allyl chloride, allyl fluoride, ammonia, bromomethane, chlorine dioxide, ethyl cyanoacrylate, ethylene, furan, hydrazine, methylsilane, methyl ethyl ketone, methyl vinyl ketone, propenal, propene, R-134a, tetrahydrofuran, trichloroethylene, uranyl fluoride, vinyl chloride, vinyl cyanide, vinyl ether.

Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<15 mK @ +30°C (+86°F)
Field of view (FOV)	24° × 18°
Minimum focus distance	0.3 m (1.0 ft.)
Focal length	23 mm (0.89 in.)
Lens identification	Automatic
F-number	1.5
Focus	Automatic (one touch) or manual (electric or on the lens)
Zoom	1–8× continuous, digital zoom
Digital image enhancement	Noise reduction filter, high sensitivity mode (HSM)

Detector data

Detector type	Focal plane array (FPA), cooled QWIP
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FLIR GF306 24° Fixed lens

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Detector data	
Spectral range	10.3–10.7 μm
Detector pitch	30 μm
Sensor cooling	Stirling Microcooler (FLIR MC-3)
Detects following gases	Sulfur Hexafluoride (SF ₆), Acetyl Chloride, Acetic Acid, Allyl Bromide, Allyl Chloride, Allyl Fluoride, Ammonia (NH ₃), Bromomethane, Chlorine Dioxide, Ethyl Cyanoacrylate, Ethylene, Furan, Hydrazine, Methylsilane, Methyl Ethyl Ketone, Methyl Vinyl Ketone, Propenal, Propene, R 134a, Tetrahydrofuran, Trichloroethylene, Uranyl Fluoride, Vinyl Chloride, Vinyl Cyanide, Vinyl Ether

Electronics and data rate	
Full frame rate	60 Hz

Image presentation	
Display	Built-in widescreen, 4.3 in. LCD, 800 × 480 pixels
Viewfinder	Built-in, tiltable OLED, 800 × 480 pixels
Automatic image adjustment	Continuous/manual; linear or histogram based
Manual image adjustment	Level/span

Image presentation modes	
Image modes	IR image, visual image, high sensitivity mode (HSM)

Measurement	
Temperature range	−40°C to +500°C (−40°F to +932°F)
Accuracy	±1°C (±1.8°F) for temperature range (0°C, to +100°C, +32°F to +212°F) or ±2% of reading for temperature range (>+100°C, >+212°F)

Measurement analysis	
Spotmeter	10
Area	5 boxes with max./min./average
Profile	1 live line (horizontal or vertical)
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from editable materials list
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
Measurement corrections	Reflected temperature, distance, atmospheric transmission, humidity, external optics



FLIR GF306 24° Fixed lens

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Website

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Customer support

<http://support.flir.com>

Set-up	
Menu commands	Level, span Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image
Color palettes	Iron, Gray, Rainbow, Arctic, Lava, Rainbow HC
Set-up commands	1 programmable button, overlay recording mode, local adaptation of units, language, date and time formats

Storage of images	
Storage media	Removable SD or SDHC memory card , two card slots
Image storage capacity	> 1200 images (JPEG) with post process capability per GB on memory card
Image storage mode	IR/visual images Visual image can automatically be associated with corresponding IR image
Periodic image storage	Every 10 seconds up to 24 hours
File formats	Standard JPEG, 14 bit measurement data included

Geographic Information System	
GPS	Location data automatically added to every image from built-in GPS

Video recording in camera	
Radiometric IR video recording	*.seq video clips to memory card (7.5 and 15 Hz).
Non-radiometric IR video recording	MPEG4 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR video.
Visual video recording	MPEG4 (25 minutes/clip) to memory card

Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB cable or to mobile devices using Wi-Fi. PC software capable of displaying the video stream include the following: <ul style="list-style-type: none"> FLIR IR Camera Player FLIR ResearchIR FLIR Tools
Non-radiometric IR video streaming	RTP/MPEG4

Digital camera	
Built-in digital camera	3.2 Mpixels, auto focus, and two video lamps

Laser pointer	
Laser	Activated by dedicated button
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)



FLIR GF306 24° Fixed lens

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Website

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USB	
USB	<ul style="list-style-type: none"> • USB-A: Connect external USB device • USB Mini-B: Data transfer to and from PC
USB, standard	USB Mini-B: 2.0 high speed

Composite video	
Video out	Digital video output (image)

Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	7.2 V
Battery capacity	4.4 Ah
Battery operating time	> 2 hours at 25°C (+77°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 95% capacity, charging status indicated by LED's
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
DC operation	10.8 to 16 V DC, polarity protected (proprietary protected)
Power	12.5 W typically
Start-up time	Typically 10 min. @ 25°C (+77°F)

Environmental data	
Operating temperature range	–20°C to +40°C (–4°F to +104°F)
Storage temperature range	–30°C to +60°C (–22°F to +140°F)
Humidity (operating and storage)	IEC 68-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) (2 cycles)
Directives	<ul style="list-style-type: none"> • 73/23EEC • 2004/108/EC • 2002/95/EC • 2002/96/EC
EMC	<ul style="list-style-type: none"> • EN61000-6-4 (Emission) • EN61000-6-2 (Immunity) • FCC 47 CFR Part 15 class A (Emission) • EN 61 000-4-8, L5
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	Power supply: EN/UL/IEC 60950-1

Physical data	
Camera weight, excl. lens and battery	1.94 kg (4.27 lb.)
Camera weight, incl. lens and excl. battery	2.24 kg (4.94 lb.)
Camera weight, incl. lens and battery	2.48 kg (5.47 lb.)
Battery weight	0.24 kg (0.52 lb.)
Camera size, excl. lens (L × W × H)	284 × 169 × 161 mm (11.2 × 6.7 × 6.3 in.)
Cameras size, incl. lens (L × W × H)	306 × 169 × 161 mm (12.0 × 6.7 × 6.3 in.)
Battery size (L × W × H)	141 × 47 × 28 mm (5.5 × 1.8 × 1.1 in.)



FLIR GF306 24° Fixed lens

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Website

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Physical data	
Battery charger size (L x W x H)	158 x 122 x 25 mm (6.2 x 4.8 x 1.0 in.)
Tripod mounting	UNC 1/4"-20
Housing material	Aluminum, magnesium
Grip material	TPE thermoplastic elastomers

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery charger• Battery, 2 ea.• Hard transport case• HDMI-DVI cable• HDMI-HDMI cable• Lens cap (mounted on lens)• Memory card• Power supply, incl. multi-plugs• Printed documentation• Shoulder strap• USB cable• Wi-Fi USB micro adapter (depending on CE and FCC regulations regarding wireless equipment for your country)
Packaging, weight	
Packaging, size	400 x 190 x 510 mm (15.7 x 7.5 x 20.1 in.)

Supplies & accessories:

- T197692; Battery charger, incl. power supply with multi plugs
- T910814; Power supply, incl. multi plugs
- T198511; Li-Ion Battery pack 7.4V 33Wh
- T199367ACC; Battery Li-ion 7.2 V, 4.4 Ah, 32 Wh
- T199183ACC; Battery
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910815ACC; HDMI to HDMI cable 1.5 m
- T910816ACC; HDMI to DVI cable 1.5 m
- T197555; Hard transport case for FLIR GF3xx-Series
- T951387; Wi-Fi USB micro adapter
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- T198585; FLIR VideoReport
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

The FLIR GF309 is an infrared camera for furnace and high temperature inspection (e.g., of industrial furnaces, chemical heaters, and coal-fired boilers), without the need to shut down the operation. The portable camera also greatly improves operator safety, by measuring through flames at a safe distance, for all types of furnaces. A good knowledge of the furnace condition can avert failures and unscheduled shutdowns

Industrial furnaces, heaters, and boilers are found in the chemical, petrochemical, and utility industries.

Benefits:

- **Improved efficiency:** The FLIR GF309 reduces inspection time by measuring the temperature through flames without the need to interrupt the industrial process or await scheduled service shutdowns. A furnace camera can help you to determine how to run a furnace/boiler efficiently to give the best fuel economy and maximize production output and quality. As the FLIR GF309 has a wide temperature range, high-accuracy electrical and mechanical inspections can be performed, which makes the camera even more useful for predictive maintenance.
- **The wireless connectivity of the camera allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera—a useful function if regulations require a second person to accompany the furnace inspector or thermal images needs to be sent quickly for a second opinion.**
- **Increased worker safety:** High-temperature measurement can be performed through flames in a non-contact mode, and from a safe distance. Custom-built, the FLIR GF309 also features a detachable heat-shield designed to reflect heat away from the camera and the camera operator, providing increased protection. The camera is ergonomically designed, with a bright LCD and tiltable viewfinder, which facilitates its use over a full working day.
- **Increased furnace safety:** Good knowledge of furnace/boiler condition and operating parameters can provide the information needed to avert catastrophic failures and prevent unscheduled shutdowns.

Licensing and classification

License information

Interchangeable lens version of the FLIR GF3XX series requires US Department of State License and will be subject to limitations on resale, except inside US. Allow a minimum of 90 days after application submittal for approval.

Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<15 mK @ +30°C (+86°F)
Field of view (FOV)	14.5° × 10.8°
Minimum focus distance	0.5 m (1.64 ft.)
Focal length	38 mm (1.49 in.)
Lens identification	Automatic
F-number	1.5
Focus	Automatic (one touch) or manual (electric or on the lens)
Zoom	1–8× continuous, digital zoom



FLIR GF309 14.5°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Imaging and optical data	
Digital image enhancement	Noise reduction filter

Detector data	
Detector type	Focal plane array (FPA), cooled InSb
Spectral range	3.8–4.05 μm
Detector pitch	30 μm
Sensor cooling	Stirling Microcooler (FLIR MC-3)

Electronics and data rate	
Full frame rate	60 Hz

Image presentation	
Display	Built-in widescreen, 4.3 in. LCD, 800 × 480 pixels
Viewfinder	Built-in, tiltable OLED, 800 × 480 pixels
Automatic image adjustment	Continuous/manual; linear or histogram based
Manual image adjustment	Level/span

Image presentation modes	
Image modes	IR image, visual image

Measurement	
Temperature range	–20°C to +1500°C (–4°F to +2732°F)
Accuracy	$\pm 1^\circ\text{C}$ ($\pm 1.8^\circ\text{F}$) for temperature range (0°C, to +100°C, +32°F to +212°F) or $\pm 2\%$ of reading for temperature range ($>+100^\circ\text{C}$, $>+212^\circ\text{F}$)

Measurement analysis	
Spotmeter	10
Area	5 boxes with max./min./average
Profile	1 live line (horizontal or vertical)
Isotherm	Above/below/interval
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from editable materials list
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
Measurement corrections	Reflected temperature, distance, atmospheric transmission, humidity, external optics

Set-up	
Menu commands	Level, span Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image



FLIR GF309 14.5°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Set-up	
Color palettes	Iron, Gray, Rainbow, Arctic, Lava, Rainbow HC
Set-up commands	1 programmable button, local adaptation of units, language, date and time formats

Storage of images	
Storage media	Removable SD or SDHC memory card , two card slots
Image storage capacity	> 1200 images (JPEG) with post process capability per GB on memory card
Image storage mode	IR/visual images Visual image can automatically be associated with corresponding IR image
Periodic image storage	Every 10 seconds up to 24 hours
File formats	Standard JPEG, 14 bit measurement data included

Geographic Information System	
GPS	Location data automatically added to every image from built-in GPS

Video recording in camera	
Radiometric IR video recording	*.seq video clips to memory card (7.5 and 15 Hz).
Non-radiometric IR video recording	MPEG4 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR video.
Visual video recording	MPEG4 (25 minutes/clip) to memory card

Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB cable or to mobile devices using Wi-Fi. PC software capable of displaying the video stream include the following: <ul style="list-style-type: none">• FLIR IR Camera Player• FLIR ResearchIR• FLIR Tools
Non-radiometric IR video streaming	RTP/MPEG4

Digital camera	
Built-in digital camera	3.2 Mpixels, auto focus, and two video lamps

Laser pointer	
Laser	Activated by dedicated button
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

USB	
USB	<ul style="list-style-type: none">• USB-A: Connect external USB device• USB Mini-B: Data transfer to and from PC
USB, standard	USB Mini-B: 2.0 high speed

Composite video	
Video out	Digital video output (image)



FLIR GF309 14.5°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	7.2 V
Battery capacity	4.4 Ah
Battery operating time	> 3 hours at 25°C (+77°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 95% capacity, charging status indicated by LED's
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
DC operation	10.8 to 16 V DC, polarity protected (proprietary protected)
Power	8.5 W typically
Start-up time	Typically 7 min. @ 25°C (+77°F)

Environmental data	
Operating temperature range	–20°C to +50°C (–4°F to +122°F)
Storage temperature range	–30°C to +60°C (–22°F to +140°F)
Humidity (operating and storage)	IEC 68-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) (2 cycles)
Directives	<ul style="list-style-type: none">• 73/23EEC• 2004/108/EC• 2002/95/EC• 2002/96/EC
EMC	<ul style="list-style-type: none">• EN61000-6-4 (Emission)• EN61000-6-2 (Immunity)• FCC 47 CFR Part 15 class A (Emission)• EN 61 000-4-8, L5
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	Power supply: EN/UL/IEC 60950-1

Physical data	
Camera weight, excl. lens and battery	1.94 kg (4.27 lb.)
Camera weight, incl. lens and excl. battery	2.24 kg (4.94 lb.)
Camera weight, incl. lens and battery	2.48 kg (5.47 lb.)
Battery weight	0.24 kg (0.52 lb.)
Heat shield weight	0.50 kg (1.09 lb.)
Camera size, excl. lens (L × W × H)	284 × 169 × 161 mm (11.2 × 6.7 × 6.3 in.)
Cameras size, incl. lens (L × W × H)	305 × 169 × 161 mm (12.0 × 6.7 × 6.3 in.)
Cameras size, incl. heat shield (L × W × H)	320 × 243 × 195 mm (12.6 × 9.6 × 7.7 in.)
Battery size (L × W × H)	141 × 47 × 28 mm (5.5 × 1.8 × 1.1 in.)
Battery charger size (L × W × H)	158 × 122 × 25 mm (6.2 × 4.8 × 1.0 in.)
Tripod mounting	UNC ¼"-20
Housing material	Aluminum, magnesium
Grip material	TPE thermoplastic elastomers



FLIR GF309 14.5°

P/N: 44601-0101

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Disclaimer

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>**Shipping information**

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Infrared camera with lens • Battery charger • Battery, 2 ea. • Hard transport case • HDMI-DVI cable • HDMI-HDMI cable • Heat shield • Lens cap (2 ea.) • Lens cap (mounted on lens) • Memory card • Power supply, incl. multi-plugs • Printed documentation • Shoulder strap • USB cable • Wi-Fi USB micro adapter (depending on CE and FCC regulations regarding wireless equipment for your country)
Packaging, weight	
Packaging, size	400 × 190 × 510 mm (15.7 × 7.5 × 20.1 in.)

Supplies & accessories:

- T197387; IR lens, 24° with case for GF300, GF309, GF320
- T197388; IR lens, 6° with case for GF300, GF309, GF320, GF346.
- T197385; IR lens, 14.5° with case for GF300, GF309, GF320
- T198361; Furnace IR lens extender, 14.5° with case for GF309
- T197692; Battery charger, incl. power supply with multi plugs
- T910814; Power supply, incl. multi plugs
- T198511; Li-Ion Battery pack 7.4V 33Wh
- T199367ACC; Battery Li-ion 7.2 V, 4.4 Ah, 32 Wh
- T199183ACC; Battery
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910815ACC; HDMI to HDMI cable 1.5 m
- T910816ACC; HDMI to DVI cable 1.5 m
- T197555; Hard transport case for FLIR GF3xx-Series
- T951387; Wi-Fi USB micro adapter
- T197482; Heat Shield for FLIR GF309
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

The FLIR GF309 is an infrared camera for furnace and high temperature inspection (e.g., of industrial furnaces, chemical heaters, and coal-fired boilers), without the need to shut down the operation. The portable camera also greatly improves operator safety, by measuring through flames at a safe distance, for all types of furnaces. A good knowledge of the furnace condition can avert failures and unscheduled shutdowns

Industrial furnaces, heaters, and boilers are found in the chemical, petrochemical, and utility industries.

Benefits:

- **Improved efficiency:** The FLIR GF309 reduces inspection time by measuring the temperature through flames without the need to interrupt the industrial process or await scheduled service shutdowns. A furnace camera can help you to determine how to run a furnace/boiler efficiently to give the best fuel economy and maximize production output and quality. As the FLIR GF309 has a wide temperature range, high-accuracy electrical and mechanical inspections can be performed, which makes the camera even more useful for predictive maintenance.
- **The wireless connectivity of the camera allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera—a useful function if regulations require a second person to accompany the furnace inspector or thermal images needs to be sent quickly for a second opinion.**
- **Increased worker safety:** High-temperature measurement can be performed through flames in a non-contact mode, and from a safe distance. Custom-built, the FLIR GF309 also features a detachable heat-shield designed to reflect heat away from the camera and the camera operator, providing increased protection. The camera is ergonomically designed, with a bright LCD and tiltable viewfinder, which facilitates its use over a full working day.
- **Increased furnace safety:** Good knowledge of furnace/boiler condition and operating parameters can provide the information needed to avert catastrophic failures and prevent unscheduled shutdowns.

Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<15 mK @ +30°C (+86°F)
Field of view (FOV)	14.5° × 10.8°
Minimum focus distance	0.5 m (1.64 ft.)
Focal length	38 mm (1.49 in.)
Lens identification	Automatic
F-number	1.5
Focus	Automatic (one touch) or manual (electric or on the lens)
Zoom	1–8× continuous, digital zoom
Digital image enhancement	Noise reduction filter

Detector data

Detector type	Focal plane array (FPA), cooled InSb
Spectral range	3.8–4.05 μm



FLIR GF309 14.5° Fixed lens

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Website

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Customer support

<http://support.flir.com>

Detector data	
Detector pitch	30 µm
Sensor cooling	Stirling Microcooler (FLIR MC-3)

Electronics and data rate	
Full frame rate	60 Hz

Image presentation	
Display	Built-in widescreen, 4.3 in. LCD, 800 × 480 pixels
Viewfinder	Built-in, tiltable OLED, 800 × 480 pixels
Automatic image adjustment	Continuous/manual; linear or histogram based
Manual image adjustment	Level/span

Image presentation modes	
Image modes	IR image, visual image

Measurement	
Temperature range	-20°C to +1500°C (-4°F to +2732°F)
Accuracy	±1°C (±1.8°F) for temperature range (0°C, to +100°C, +32°F to +212°F) or ±2% of reading for temperature range (>+100°C, >+212°F)

Measurement analysis	
Spotmeter	10
Area	5 boxes with max./min./average
Profile	1 live line (horizontal or vertical)
Isotherm	Above/below/interval
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from editable materials list
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
Measurement corrections	Reflected temperature, distance, atmospheric transmission, humidity, external optics

Set-up	
Menu commands	Level, span Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image
Color palettes	Iron, Gray, Rainbow, Arctic, Lava, Rainbow HC
Set-up commands	1 programmable button, local adaptation of units, language, date and time formats



FLIR GF309 14.5° Fixed lens

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Website

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Customer support

<http://support.flir.com>

Storage of images	
Storage media	Removable SD or SDHC memory card , two card slots
Image storage capacity	> 1200 images (JPEG) with post process capability per GB on memory card
Image storage mode	IR/visual images Visual image can automatically be associated with corresponding IR image
Periodic image storage	Every 10 seconds up to 24 hours
File formats	Standard JPEG, 14 bit measurement data included

Geographic Information System	
GPS	Location data automatically added to every image from built-in GPS

Video recording in camera	
Radiometric IR video recording	*.seq video clips to memory card (7.5 and 15 Hz).
Non-radiometric IR video recording	MPEG4 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR video.
Visual video recording	MPEG4 (25 minutes/clip) to memory card

Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB cable or to mobile devices using Wi-Fi. PC software capable of displaying the video stream include the following: <ul style="list-style-type: none">• FLIR IR Camera Player• FLIR ResearchIR• FLIR Tools
Non-radiometric IR video streaming	RTP/MPEG4

Digital camera	
Built-in digital camera	3.2 Mpixels, auto focus, and two video lamps

Laser pointer	
Laser	Activated by dedicated button
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

USB	
USB	<ul style="list-style-type: none">• USB-A: Connect external USB device• USB Mini-B: Data transfer to and from PC
USB, standard	USB Mini-B: 2.0 high speed

Composite video	
Video out	Digital video output (image)

Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	7.2 V



FLIR GF309 14.5° Fixed lens

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Website

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Customer support

<http://support.flir.com>

Power system	
Battery capacity	4.4 Ah
Battery operating time	> 3 hours at 25°C (+77°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 95% capacity, charging status indicated by LED's
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
DC operation	10.8 to 16 V DC, polarity protected (proprietary protected)
Power	8.5 W typically
Start-up time	Typically 7 min. @ 25°C (+77°F)

Environmental data	
Operating temperature range	–20°C to +50°C (–4°F to +122°F)
Storage temperature range	–30°C to +60°C (–22°F to +140°F)
Humidity (operating and storage)	IEC 68-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) (2 cycles)
Directives	<ul style="list-style-type: none">• 73/23EEC• 2004/108/EC• 2002/95/EC• 2002/96/EC
EMC	<ul style="list-style-type: none">• EN61000-6-4 (Emission)• EN61000-6-2 (Immunity)• FCC 47 CFR Part 15 class A (Emission)• EN 61 000-4-8, L5
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	Power supply: EN/UL/IEC 60950-1

Physical data	
Camera weight, excl. lens and battery	1.94 kg (4.27 lb.)
Camera weight, incl. lens and excl. battery	2.24 kg (4.94 lb.)
Camera weight, incl. lens and battery	2.48 kg (5.47 lb.)
Battery weight	0.24 kg (0.52 lb.)
Heat shield weight	0.50 kg (1.09 lb.)
Camera size, excl. lens (L × W × H)	284 × 169 × 161 mm (11.2 × 6.7 × 6.3 in.)
Cameras size, incl. lens (L × W × H)	305 × 169 × 161 mm (12.0 × 6.7 × 6.3 in.)
Cameras size, incl. heat shield (L × W × H)	320 × 243 × 195 mm (12.6 × 9.6 × 7.7 in.)
Battery size (L × W × H)	141 × 47 × 28 mm (5.5 × 1.8 × 1.1 in.)
Battery charger size (L × W × H)	158 × 122 × 25 mm (6.2 × 4.8 × 1.0 in.)
Tripod mounting	UNC ¼"-20
Housing material	Aluminum, magnesium
Grip material	TPE thermoplastic elastomers

Shipping information	
Packaging, type	Cardboard box



FLIR GF309 14.5° Fixed lens

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>**Shipping information**

List of contents	<ul style="list-style-type: none"> • Infrared camera with lens • Battery charger • Battery, 2 ea. • Hard transport case • HDMI-DVI cable • HDMI-HDMI cable • Heat shield • Lens cap (mounted on lens) • Memory card • Power supply, incl. multi-plugs • Printed documentation • Shoulder strap • USB cable • Wi-Fi USB micro adapter (depending on CE and FCC regulations regarding wireless equipment for your country)
Packaging, weight	
Packaging, size	400 × 190 × 510 mm (15.7 × 7.5 × 20.1 in.)

Supplies & accessories:

- T198361; Furnace IR lens extender, 14.5° with case for GF309
- T197692; Battery charger, incl. power supply with multi plugs
- T910814; Power supply, incl. multi plugs
- T198511; Li-Ion Battery pack 7.4V 33Wh
- T199367ACC; Battery Li-ion 7.2 V, 4.4 Ah, 32 Wh
- T199183ACC; Battery
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910815ACC; HDMI to HDMI cable 1.5 m
- T910816ACC; HDMI to DVI cable 1.5 m
- T197555; Hard transport case for FLIR GF3xx-Series
- T951387; Wi-Fi USB micro adapter
- T197482; Heat Shield for FLIR GF309
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

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Website

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Customer support

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General description

The FLIR GF309 is an infrared camera for furnace and high temperature inspection (e.g., of industrial furnaces, chemical heaters, and coal-fired boilers), without the need to shut down the operation. The portable camera also greatly improves operator safety, by measuring through flames at a safe distance, for all types of furnaces. A good knowledge of the furnace condition can avert failures and unscheduled shutdowns

Industrial furnaces, heaters, and boilers are found in the chemical, petrochemical, and utility industries.

Benefits:

- **Improved efficiency:** The FLIR GF309 reduces inspection time by measuring the temperature through flames without the need to interrupt the industrial process or await scheduled service shutdowns. A furnace camera can help you to determine how to run a furnace/boiler efficiently to give the best fuel economy and maximize production output and quality. As the FLIR GF309 has a wide temperature range, high-accuracy electrical and mechanical inspections can be performed, which makes the camera even more useful for predictive maintenance.
- **The wireless connectivity of the camera allows you to connect to smart phones or tablet PCs for the wireless transfer of images or the remote control of the camera—a useful function if regulations require a second person to accompany the furnace inspector or thermal images needs to be sent quickly for a second opinion.**
- **Increased worker safety:** High-temperature measurement can be performed through flames in a non-contact mode, and from a safe distance. Custom-built, the FLIR GF309 also features a detachable heat-shield designed to reflect heat away from the camera and the camera operator, providing increased protection. The camera is ergonomically designed with a bright LCD and tiltable viewfinder, which facilitates its use over a full working day.
- **Increased furnace safety:** Good knowledge of furnace/boiler condition and operating parameters can provide the information needed to avert catastrophic failures and prevent unscheduled shutdowns.

Licensing and classification

License information

Interchangeable lens version of the FLIR GF3XX series requires US Department of State License and will be subject to limitations on resale, except inside US. Allow a minimum of 90 days after application submittal for approval.

Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<15 mK @ +30°C (+86°F)
Field of view (FOV)	24° × 18°
Minimum focus distance	0.3 m (1.0 ft.)
Focal length	23 mm (0.89 in.)
Lens identification	Automatic
F-number	1.5
Focus	Automatic (one touch) or manual (electric or on the lens)
Zoom	1–8× continuous, digital zoom



FLIR GF309 24°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Imaging and optical data	
Digital image enhancement	Noise reduction filter

Detector data	
Detector type	Focal plane array (FPA), cooled InSb
Spectral range	3.8–4.05 μm
Detector pitch	30 μm
Sensor cooling	Stirling Microcooler (FLIR MC-3)

Electronics and data rate	
Full frame rate	60 Hz

Image presentation	
Display	Built-in widescreen, 4.3 in. LCD, 800 × 480 pixels
Viewfinder	Built-in, tiltable OLED, 800 × 480 pixels
Automatic image adjustment	Continuous/manual; linear or histogram based
Manual image adjustment	Level/span

Image presentation modes	
Image modes	IR image, visual image

Measurement	
Temperature range	–20°C to +1500°C (–4°F to +2732°F)
Accuracy	$\pm 1^\circ\text{C}$ ($\pm 1.8^\circ\text{F}$) for temperature range (0°C, to +100°C, +32°F to +212°F) or $\pm 2\%$ of reading for temperature range (>+100°C, >+212°F)

Measurement analysis	
Spotmeter	10
Area	5 boxes with max./min./average
Profile	1 live line (horizontal or vertical)
Isotherm	Above/below/interval
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from editable materials list
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
Measurement corrections	Reflected temperature, distance, atmospheric transmission, humidity, external optics

Set-up	
Menu commands	Level, span Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image



FLIR GF309 24°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Set-up	
Color palettes	Iron, Gray, Rainbow, Arctic, Lava, Rainbow HC
Set-up commands	1 programmable button, local adaptation of units, language, date and time formats

Storage of images	
Storage media	Removable SD or SDHC memory card , two card slots
Image storage capacity	> 1200 images (JPEG) with post process capability per GB on memory card
Image storage mode	IR/visual images Visual image can automatically be associated with corresponding IR image
Periodic image storage	Every 10 seconds up to 24 hours
File formats	Standard JPEG, 14 bit measurement data included

Geographic Information System	
GPS	Location data automatically added to every image from built-in GPS

Video recording in camera	
Radiometric IR video recording	*.seq video clips to memory card (7.5 and 15 Hz).
Non-radiometric IR video recording	MPEG4 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR video.
Visual video recording	MPEG4 (25 minutes/clip) to memory card

Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB cable or to mobile devices using Wi-Fi. PC software capable of displaying the video stream include the following: <ul style="list-style-type: none">• FLIR IR Camera Player• FLIR ResearchIR• FLIR Tools
Non-radiometric IR video streaming	RTP/MPEG4

Digital camera	
Built-in digital camera	3.2 Mpixels, auto focus, and two video lamps

Laser pointer	
Laser	Activated by dedicated button
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

USB	
USB	<ul style="list-style-type: none">• USB-A: Connect external USB device• USB Mini-B: Data transfer to and from PC
USB, standard	USB Mini-B: 2.0 high speed

Composite video	
Video out	Digital video output (image)



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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	7.2 V
Battery capacity	4.4 Ah
Battery operating time	> 3 hours at 25°C (+77°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 95% capacity, charging status indicated by LED's
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
DC operation	10.8 to 16 V DC, polarity protected (proprietary protected)
Power	8.5 W typically
Start-up time	Typically 7 min. @ 25°C (+77°F)

Environmental data	
Operating temperature range	–20°C to +50°C (–4°F to +122°F)
Storage temperature range	–30°C to +60°C (–22°F to +140°F)
Humidity (operating and storage)	IEC 68-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) (2 cycles)
Directives	<ul style="list-style-type: none">• 73/23EEC• 2004/108/EC• 2002/95/EC• 2002/96/EC
EMC	<ul style="list-style-type: none">• EN61000-6-4 (Emission)• EN61000-6-2 (Immunity)• FCC 47 CFR Part 15 class A (Emission)• EN 61 000-4-8, L5
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	Power supply: EN/UL/IEC 60950-1

Physical data	
Camera weight, excl. lens and battery	1.94 kg (4.27 lb.)
Camera weight, incl. lens and excl. battery	2.24 kg (4.94 lb.)
Camera weight, incl. lens and battery	2.48 kg (5.47 lb.)
Battery weight	0.24 kg (0.52 lb.)
Heat shield weight	0.50 kg (1.09 lb.)
Camera size, excl. lens (L × W × H)	284 × 169 × 161 mm (11.2 × 6.7 × 6.3 in.)
Cameras size, incl. lens (L × W × H)	306 × 169 × 161 mm (12.0 × 6.7 × 6.3 in.)
Cameras size, incl. heat shield (L × W × H)	320 × 243 × 195 mm (12.6 × 9.6 × 7.7 in.)
Battery size (L × W × H)	141 × 47 × 28 mm (5.5 × 1.8 × 1.1 in.)
Battery charger size (L × W × H)	158 × 122 × 25 mm (6.2 × 4.8 × 1.0 in.)
Tripod mounting	UNC ¼"-20
Housing material	Aluminum, magnesium
Grip material	TPE thermoplastic elastomers



FLIR GF309 24°

P/N: 44601-0102

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Infrared camera with lens • Battery charger • Battery, 2 ea. • Hard transport case • HDMI-DVI cable • HDMI-HDMI cable • Heat shield • Lens cap (2 ea.) • Lens cap (mounted on lens) • Memory card • Power supply, incl. multi-plugs • Printed documentation • Shoulder strap • USB cable • Wi-Fi USB micro adapter (depending on CE and FCC regulations regarding wireless equipment for your country)
Packaging, weight	
Packaging, size	400 × 190 × 510 mm (15.7 × 7.5 × 20.1 in.)

Supplies & accessories:

- T197387; IR lens, 24° with case for GF300, GF309, GF320
- T197388; IR lens, 6° with case for GF300, GF309, GF320, GF346.
- T197385; IR lens, 14.5° with case for GF300, GF309, GF320
- T198360; Furnace IR lens extender, 24° with case for GF309
- T197692; Battery charger, incl. power supply with multi plugs
- T910814; Power supply, incl. multi plugs
- T198511; Li-Ion Battery pack 7.4V 33Wh
- T199367ACC; Battery Li-ion 7.2 V, 4.4 Ah, 32 Wh
- T199183ACC; Battery
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910815ACC; HDMI to HDMI cable 1.5 m
- T910816ACC; HDMI to DVI cable 1.5 m
- T197555; Hard transport case for FLIR GF3xx-Series
- T951387; Wi-Fi USB micro adapter
- T197482; Heat Shield for FLIR GF309
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

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Website

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Customer support

<http://support.flir.com>



General description

The FLIR GF309 is an infrared camera for furnace and high temperature inspection (e.g., of industrial furnaces, chemical heaters, and coal-fired boilers), without the need to shut down the operation. The portable camera also greatly improves operator safety, by measuring through flames at a safe distance, for all types of furnaces. A good knowledge of the furnace condition can avert failures and unscheduled shutdowns

Industrial furnaces, heaters, and boilers are found in the chemical, petrochemical, and utility industries.

Benefits:

- **Improved efficiency:** The FLIR GF309 reduces inspection time by measuring the temperature through flames without the need to interrupt the industrial process or await scheduled service shutdowns. A furnace camera can help you to determine how to run a furnace/boiler efficiently to give the best fuel economy and maximize production output and quality. As the FLIR GF309 has a wide temperature range, high-accuracy electrical and mechanical inspections can be performed, which makes the camera even more useful for predictive maintenance.
- **The wireless connectivity of the camera allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera—a useful function if regulations require a second person to accompany the furnace inspector or thermal images needs to be sent quickly for a second opinion.**
- **Increased worker safety:** High-temperature measurement can be performed through flames in a non-contact mode, and from a safe distance. Custom-built, the FLIR GF309 also features a detachable heat-shield designed to reflect heat away from the camera and the camera operator, providing increased protection. The camera is ergonomically designed, with a bright LCD and tiltable viewfinder, which facilitates its use over a full working day.
- **Increased furnace safety:** Good knowledge of furnace/boiler condition and operating parameters can provide the information needed to avert catastrophic failures and prevent unscheduled shutdowns.

Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<15 mK @ +30°C (+86°F)
Field of view (FOV)	24° × 18°
Minimum focus distance	0.3 m (1.0 ft.)
Focal length	23 mm (0.89 in.)
Lens identification	Automatic
F-number	1.5
Focus	Automatic (one touch) or manual (electric or on the lens)
Zoom	1–8× continuous, digital zoom
Digital image enhancement	Noise reduction filter

Detector data

Detector type	Focal plane array (FPA), cooled InSb
Spectral range	3.8–4.05 μm



FLIR GF309 24° Fixed lens

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Website

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Detector data	
Detector pitch	30 µm
Sensor cooling	Stirling Microcooler (FLIR MC-3)

Electronics and data rate	
Full frame rate	60 Hz

Image presentation	
Display	Built-in widescreen, 4.3 in. LCD, 800 × 480 pixels
Viewfinder	Built-in, tiltable OLED, 800 × 480 pixels
Automatic image adjustment	Continuous/manual; linear or histogram based
Manual image adjustment	Level/span

Image presentation modes	
Image modes	IR image, visual image

Measurement	
Temperature range	-20°C to +1500°C (-4°F to +2732°F)
Accuracy	±1°C (±1.8°F) for temperature range (0°C, to +100°C, +32°F to +212°F) or ±2% of reading for temperature range (>+100°C, >+212°F)

Measurement analysis	
Spotmeter	10
Area	5 boxes with max./min./average
Profile	1 live line (horizontal or vertical)
Isotherm	Above/below/interval
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from editable materials list
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
Measurement corrections	Reflected temperature, distance, atmospheric transmission, humidity, external optics

Set-up	
Menu commands	Level, span Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image
Color palettes	Iron, Gray, Rainbow, Arctic, Lava, Rainbow HC
Set-up commands	1 programmable button, local adaptation of units, language, date and time formats



FLIR GF309 24° Fixed lens

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Website

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Customer support

<http://support.flir.com>

Storage of images	
Storage media	Removable SD or SDHC memory card , two card slots
Image storage capacity	> 1200 images (JPEG) with post process capability per GB on memory card
Image storage mode	IR/visual images Visual image can automatically be associated with corresponding IR image
Periodic image storage	Every 10 seconds up to 24 hours
File formats	Standard JPEG, 14 bit measurement data included

Geographic Information System	
GPS	Location data automatically added to every image from built-in GPS

Video recording in camera	
Radiometric IR video recording	*.seq video clips to memory card (7.5 and 15 Hz).
Non-radiometric IR video recording	MPEG4 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR video.
Visual video recording	MPEG4 (25 minutes/clip) to memory card

Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB cable or to mobile devices using Wi-Fi. PC software capable of displaying the video stream include the following: <ul style="list-style-type: none">• FLIR IR Camera Player• FLIR ResearchIR• FLIR Tools
Non-radiometric IR video streaming	RTP/MPEG4

Digital camera	
Built-in digital camera	3.2 Mpixels, auto focus, and two video lamps

Laser pointer	
Laser	Activated by dedicated button
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

USB	
USB	<ul style="list-style-type: none">• USB-A: Connect external USB device• USB Mini-B: Data transfer to and from PC
USB, standard	USB Mini-B: 2.0 high speed

Composite video	
Video out	Digital video output (image)

Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	7.2 V



FLIR GF309 24° Fixed lens

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Power system	
Battery capacity	4.4 Ah
Battery operating time	> 3 hours at 25°C (+77°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 95% capacity, charging status indicated by LED's
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
DC operation	10.8 to 16 V DC, polarity protected (proprietary protected)
Power	8.5 W typically
Start-up time	Typically 7 min. @ 25°C (+77°F)

Environmental data	
Operating temperature range	–20°C to +50°C (–4°F to +122°F)
Storage temperature range	–30°C to +60°C (–22°F to +140°F)
Humidity (operating and storage)	IEC 68-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) (2 cycles)
Directives	<ul style="list-style-type: none">• 73/23EEC• 2004/108/EC• 2002/95/EC• 2002/96/EC
EMC	<ul style="list-style-type: none">• EN61000-6-4 (Emission)• EN61000-6-2 (Immunity)• FCC 47 CFR Part 15 class A (Emission)• EN 61 000-4-8, L5
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	Power supply: EN/UL/IEC 60950-1

Physical data	
Camera weight, excl. lens and battery	1.94 kg (4.27 lb.)
Camera weight, incl. lens and excl. battery	2.24 kg (4.94 lb.)
Camera weight, incl. lens and battery	2.48 kg (5.47 lb.)
Battery weight	0.24 kg (0.52 lb.)
Heat shield weight	0.50 kg (1.09 lb.)
Camera size, excl. lens (L × W × H)	284 × 169 × 161 mm (11.2 × 6.7 × 6.3 in.)
Cameras size, incl. lens (L × W × H)	306 × 169 × 161 mm (12.0 × 6.7 × 6.3 in.)
Cameras size, incl. heat shield (L × W × H)	320 × 243 × 195 mm (12.6 × 9.6 × 7.7 in.)
Battery size (L × W × H)	141 × 47 × 28 mm (5.5 × 1.8 × 1.1 in.)
Battery charger size (L × W × H)	158 × 122 × 25 mm (6.2 × 4.8 × 1.0 in.)
Tripod mounting	UNC ¼"-20
Housing material	Aluminum, magnesium
Grip material	TPE thermoplastic elastomers

Shipping information	
Packaging, type	Cardboard box



FLIR GF309 24° Fixed lens

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Shipping information	
List of contents	<ul style="list-style-type: none"> • Infrared camera with lens • Battery charger • Battery, 2 ea. • Hard transport case • HDMI-DVI cable • HDMI-HDMI cable • Heat shield • Lens cap (mounted on lens) • Memory card • Power supply, incl. multi-plugs • Printed documentation • Shoulder strap • USB cable • Wi-Fi USB micro adapter (depending on CE and FCC regulations regarding wireless equipment for your country)
Packaging, weight	9.45 kg (20.8 lb.)
Packaging, size	400 × 190 × 510 mm (15.7 × 7.5 × 20.1 in.)

Supplies & accessories:

- T198360; Furnace IR lens extender, 24° with case for GF309
- T197692; Battery charger, incl. power supply with multi plugs
- T910814; Power supply, incl. multi plugs
- T198511; Li-Ion Battery pack 7.4V 33Wh
- T199367ACC; Battery Li-ion 7.2 V, 4.4 Ah, 32 Wh
- T199183ACC; Battery
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910815ACC; HDMI to HDMI cable 1.5 m
- T910816ACC; HDMI to DVI cable 1.5 m
- T197555; Hard transport case for FLIR GF3xx-Series
- T951387; Wi-Fi USB micro adapter
- T197482; Heat Shield for FLIR GF309
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

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General description	
<p>The FLIR GF315 brings the advantages of a SWIR camera and a MWIR camera together in a portable, handheld, dual-purpose imaging solution. This cooled broadband camera can detect very subtle temperature differences and short-wave energy sources simultaneously, with little noise. The FLIR GF315 is suited to a wide range of applications, including use on test ranges, non-destructive testing, research, and science.</p>	
Benefits:	
<ul style="list-style-type: none"> • Sharp thermal images: The FLIR GF315 features a cooled 1.0–5.0 μm indium antimonide detector that produces razor-sharp thermal images. It is sensitive enough to detect temperature shifts of <20 mK, allowing the user to detect very subtle heat signatures with astounding clarity. The camera's wide bandpass allows it to recognize SWIR and MWIR sources, letting you thermally characterize your target while simultaneously detecting SWIR energy signatures. • Portable imaging, viewing, and analysis for field work: Store thermal and/or digital video in MPEG4/H.264 format to the memory card and view playback on the LCD display or streamed to a monitor. The 3.2 MP visible camera features auto-focus, two high performance video lamps, and a laser pointer. • Designed for your needs: Whether you prefer one-touch automatic focusing or manual focusing, the FLIR GF315 delivers the perfect picture. Zero in on distant targets with its powerful 8:1 digital zoom. Designed for exceptional performance, the 4.3 in. LCD flips out and swivels for comfortable viewing, while the tiltable viewfinder improves visibility in bright environments. The FLIR GF315's advanced rotating handle with quick-access buttons make this camera very easy to use. • ResearchIR compatible: Stream data over USB to a computer that's running FLIR ResearchIR Max software to gain real-time camera control and to view, acquire, analyze, and share data. 	

Licensing and classification	
License information	Interchangeable lens version of the FLIR GF3XX series requires US Department of State License and will be subject to limitations on resale, except inside US. Allow a minimum of 90 days after application submittal for approval.

Imaging and optical data	
IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<15 mK @ +30°C (+86°F)
Field of view (FOV)	20° × 13°
Minimum focus distance	0.5 m (1.64 ft.)
Focal length	27 mm (1.07 in.)
Lens identification	Automatic
F-number	2.5
Focus	Automatic (one touch) or manual (electric or on the lens)
Zoom	1–8× continuous, digital zoom



FLIR GF315 20°

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Website

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Customer support

<http://support.flir.com>

Imaging and optical data	
Digital image enhancement	Noise reduction filter, high sensitivity mode (HSM)
Detector data	
Detector type	Focal plane array (FPA), cooled InSb
Spectral range	1.0–5.0 μm
Detector pitch	30 μm
Sensor cooling	Stirling Microcooler (FLIR MC-3)
Electronics and data rate	
Full frame rate	60 Hz
Image presentation	
Display	Built-in widescreen, 4.3 in. LCD, 800 × 480 pixels
Viewfinder	Built-in, tiltable OLED, 800 × 480 pixels
Automatic image adjustment	Continuous/manual; linear or histogram based
Manual image adjustment	Level/span
Image presentation modes	
Image modes	IR image, visual image, high sensitivity mode (HSM)
Measurement	
Temperature range	–20°C to +350°C (–4°F to +662°F)
Set-up	
Menu commands	Level, span Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image
Color palettes	Iron, Gray, Rainbow, Arctic, Lava, Rainbow HC
Set-up commands	1 programmable button, overlay recording mode, local adaptation of units, language, date and time formats
Storage of images	
Storage media	Removable SD or SDHC memory card , two card slots
Image storage capacity	> 1200 images (JPEG) with post process capability per GB on memory card
Image storage mode	IR/visual images Visual image can automatically be associated with corresponding IR image
Periodic image storage	Every 10 seconds up to 24 hours
File formats	Standard JPEG, 14 bit measurement data included
Geographic Information System	
GPS	Location data automatically added to every image from built-in GPS
Video recording in camera	
Radiometric IR video recording	*.seq video clips to memory card (7.5 and 15 Hz).



FLIR GF315 20°

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Video recording in camera	
Non-radiometric IR video recording	MPEG4 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR video.
Visual video recording	MPEG4 (25 minutes/clip) to memory card

Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB cable or to mobile devices using Wi-Fi. PC software capable of displaying the video stream include the following: <ul style="list-style-type: none"> • FLIR IR Camera Player • FLIR ResearchIR • FLIR Tools
Non-radiometric IR video streaming	RTP/MPEG4

Digital camera	
Built-in digital camera	3.2 Mpixels, auto focus, and two video lamps

Laser pointer	
Laser	Activated by dedicated button
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

USB	
USB	<ul style="list-style-type: none"> • USB-A: Connect external USB device • USB Mini-B: Data transfer to and from PC
USB, standard	USB Mini-B: 2.0 high speed

Composite video	
Video out	Digital video output (image)

Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	7.2 V
Battery capacity	4.4 Ah
Battery operating time	> 3 hours at 25°C (+77°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 95% capacity, charging status indicated by LED's
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
DC operation	10.8 to 16 V DC, polarity protected (proprietary protected)
Power	8.5 W typically
Start-up time	Typically 7 min. @ 25°C (+77°F)

Environmental data	
Operating temperature range	-20°C to +50°C (-4°F to +122°F)
Storage temperature range	-30°C to +60°C (-22°F to +140°F)



FLIR GF315 20°

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Environmental data	
Humidity (operating and storage)	IEC 68-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) (2 cycles)
Directives	<ul style="list-style-type: none">• 73/23EEC• 2004/108/EC• 2002/95/EC• 2002/96/EC
EMC	<ul style="list-style-type: none">• EN61000-6-4 (Emission)• EN61000-6-2 (Immunity)• FCC 47 CFR Part 15 class A (Emission)• EN 61 000-4-8, L5
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	Power supply: EN/UL/IEC 60950-1

Physical data	
Camera weight, excl. lens and battery	1.94 kg (4.27 lb.)
Camera weight, incl. lens and excl. battery	2.24 kg (4.94 lb.)
Camera weight, incl. lens and battery	2.48 kg (5.47 lb.)
Battery weight	0.24 kg (0.52 lb.)
Camera size, excl. lens (L × W × H)	284 × 169 × 161 mm (11.2 × 6.7 × 6.3 in.)
Cameras size, incl. lens (L × W × H)	305 × 169 × 161 mm (12.0 × 6.7 × 6.3 in.)
Battery size (L × W × H)	141 × 47 × 28 mm (5.5 × 1.8 × 1.1 in.)
Battery charger size (L × W × H)	158 × 122 × 25 mm (6.2 × 4.8 × 1.0 in.)
Tripod mounting	UNC ¼"-20
Housing material	Aluminum, magnesium
Grip material	TPE thermoplastic elastomers

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery charger• Battery, 2 ea.• Hard transport case• HDMI-DVI cable• HDMI-HDMI cable• Lens cap (2 ea.)• Lens cap (mounted on lens)• Memory card• Power supply, incl. multi-plugs• Printed documentation• Shoulder strap• USB cable
Packaging, weight	
Packaging, size	400 × 190 × 510 mm (15.7 × 7.5 × 20.1 in.)
EAN-13	7332558012918
UPC-12	845188014605
Country of origin	Sweden

Supplies & accessories:

P/N: 44401-0101

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
<p>The FLIR GF320 is an infrared camera for optical gas imaging (OGI) that visualizes and pinpoints leaks of methane and other volatile organic compounds (VOCs), without the need to shut down the operation. The portable camera also greatly improves operator safety, by detecting emissions at a safe distance, and helps to protect the environment by tracing leaks of environmentally harmful gases.</p> <p>The FLIR GF320 is used in industrial settings such as oil refineries, natural gas processing plants, offshore platforms, chemical/petrochemical industries, and biogas and power generation plants.</p>	
Benefits:	
<ul style="list-style-type: none"> • Improved efficiency: The FLIR GF320 reduces revenue loss by pinpointing even small gas leaks quickly and efficiently, and from a distance. It also reduces the inspection time by allowing a broad area to be scanned rapidly and without the need to interrupt the industrial process. The wireless connectivity of the camera allows you to connect to smart phones or tablets for the wireless transfer of images or remote control of the camera. The FLIR GF320 is also used for temperature measurement, which makes it even more useful for predictive maintenance. • Increased worker safety: OGI allows gas leaks to be detected in a non-contact mode and from a safe distance. This reduces the risk of the user being exposed to invisible and potentially harmful or explosive chemicals. With a FLIR GF320 gas imaging camera it is easy to scan areas of interest that are difficult to reach with conventional methods. The camera is ergonomically designed, with a bright LCD and tiltable viewfinder, which facilitates its use over a full working day. • Protecting the environment: Several VOCs are dangerous to human health or cause harm to the environment, and are usually governed by regulations. Even small leaks can be detected and documented using the FLIR GF320 camera. 	
<p>Detects the following gases: benzene, ethanol, ethylbenzene, heptane, hexane, isoprene, methanol, MEK, MIBK, octane, pentane, 1-pentene, toluene, xylene, butane, ethane, methane, propane, ethylene, propylene.</p>	

Licensing and classification	
License information	Interchangeable lens version of the FLIR GF3XX series requires US Department of State License and will be subject to limitations on resale, except inside US. Allow a minimum of 90 days after application submittal for approval.

Imaging and optical data	
IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<15 mK @ +30°C (+86°F)
Field of view (FOV)	14.5° × 10.8°
Minimum focus distance	0.5 m (1.64 ft.)
Focal length	38 mm (1.49 in.)
Lens identification	Automatic
F-number	1.5
Focus	Automatic (one touch) or manual (electric or on the lens)
Zoom	1–8x continuous, digital zoom
Digital image enhancement	Noise reduction filter, high sensitivity mode (HSM)



FLIR GF320 14.5°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Detector data	
Detector type	Focal plane array (FPA), cooled InSb
Spectral range	3.2–3.4 μm
Detector pitch	30 μm
Sensor cooling	Stirling Microcooler (FLIR MC-3)
Detects following gases	Benzene, Ethanol, Ethylbenzene, Heptane, Hexane, Isoprene, Methanol, MEK, MIBK, Octane, Pentane, 1-Pentene, Toluene, Xylene, Butane, Ethane, Methane, Propane, Ethylene, Propylene

Electronics and data rate	
Full frame rate	60 Hz

Image presentation	
Display	Built-in widescreen, 4.3 in. LCD, 800 × 480 pixels
Viewfinder	Built-in, tiltable OLED, 800 × 480 pixels
Automatic image adjustment	Continuous/manual; linear or histogram based
Manual image adjustment	Level/span

Image presentation modes	
Image modes	IR image, visual image, high sensitivity mode (HSM)

Measurement	
Temperature range	-20°C to +350°C (-4°F to +662°F)
Accuracy	$\pm 1^\circ\text{C}$ ($\pm 1.8^\circ\text{F}$) for temperature range (0°C, to +100°C, +32°F to +212°F) or $\pm 2\%$ of reading for temperature range (>+100°C, >+212°F)

Measurement analysis	
Spotmeter	10
Area	5 boxes with max./min./average
Profile	1 live line (horizontal or vertical)
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from editable materials list
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
Measurement corrections	Reflected temperature, distance, atmospheric transmission, humidity, external optics

Set-up	
Menu commands	Level, span Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Set-up	
Color palettes	Iron, Gray, Rainbow, Arctic, Lava, Rainbow HC
Set-up commands	1 programmable button, overlay recording mode, local adaptation of units, language, date and time formats

Storage of images	
Storage media	Removable SD or SDHC memory card , two card slots
Image storage capacity	> 1200 images (JPEG) with post process capability per GB on memory card
Image storage mode	IR/visual images Visual image can automatically be associated with corresponding IR image
Periodic image storage	Every 10 seconds up to 24 hours
File formats	Standard JPEG, 14 bit measurement data included

Geographic Information System	
GPS	Location data automatically added to every image from built-in GPS

Video recording in camera	
Radiometric IR video recording	*.seq video clips to memory card (7.5 and 15 Hz).
Non-radiometric IR video recording	MPEG4 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR video.
Visual video recording	MPEG4 (25 minutes/clip) to memory card

Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB cable or to mobile devices using Wi-Fi. PC software capable of displaying the video stream include the following: <ul style="list-style-type: none">• FLIR IR Camera Player• FLIR ResearchIR• FLIR Tools
Non-radiometric IR video streaming	RTP/MPEG4

Digital camera	
Built-in digital camera	3.2 Mpixels, auto focus, and two video lamps

Laser pointer	
Laser	Activated by dedicated button
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

USB	
USB	<ul style="list-style-type: none">• USB-A: Connect external USB device• USB Mini-B: Data transfer to and from PC
USB, standard	USB Mini-B: 2.0 high speed



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Website

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Customer support

<http://support.flir.com>

Composite video	
Video out	Digital video output (image)

Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	7.2 V
Battery capacity	4.4 Ah
Battery operating time	> 3 hours at 25°C (+77°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 95% capacity, charging status indicated by LED's
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
DC operation	10.8 to 16 V DC, polarity protected (proprietary protected)
Power	8.5 W typically
Start-up time	Typically 7 min. @ 25°C (+77°F)

Environmental data	
Operating temperature range	–20°C to +50°C (–4°F to +122°F)
Storage temperature range	–30°C to +60°C (–22°F to +140°F)
Humidity (operating and storage)	IEC 68-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) (2 cycles)
Directives	<ul style="list-style-type: none">• 73/23EEC• 2004/108/EC• 2002/95/EC• 2002/96/EC
EMC	<ul style="list-style-type: none">• EN61000-6-4 (Emission)• EN61000-6-2 (Immunity)• FCC 47 CFR Part 15 class A (Emission)• EN 61 000-4-8, L5
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	Power supply: EN/UL/IEC 60950-1

Physical data	
Camera weight, excl. lens and battery	1.94 kg (4.27 lb.)
Camera weight, incl. lens and excl. battery	2.24 kg (4.94 lb.)
Camera weight, incl. lens and battery	2.48 kg (5.47 lb.)
Battery weight	0.24 kg (0.52 lb.)
Camera size, excl. lens (L × W × H)	284 × 169 × 161 mm (11.2 × 6.7 × 6.3 in.)
Cameras size, incl. lens (L × W × H)	305 × 169 × 161 mm (12.0 × 6.7 × 6.3 in.)
Battery size (L × W × H)	141 × 47 × 28 mm (5.5 × 1.8 × 1.1 in.)
Battery charger size (L × W × H)	158 × 122 × 25 mm (6.2 × 4.8 × 1.0 in.)
Tripod mounting	UNC ¼"-20
Housing material	Aluminum, magnesium
Grip material	TPE thermoplastic elastomers



FLIR GF320 14.5°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Infrared camera with lens • Battery charger • Battery, 2 ea. • Hard transport case • HDMI-DVI cable • HDMI-HDMI cable • Lens cap (2 ea.) • Lens cap (mounted on lens) • Memory card • Power supply, incl. multi-plugs • Printed documentation • Shoulder strap • USB cable • Wi-Fi USB micro adapter (depending on CE and FCC regulations regarding wireless equipment for your country)
Packaging, weight	
Packaging, size	400 × 190 × 510 mm (15.7 × 7.5 × 20.1 in.)

Supplies & accessories:

- T197387; IR lens, 24° with case for GF300, GF309, GF320
- T197388; IR lens, 6° with case for GF300, GF309, GF320, GF346.
- T197385; IR lens, 14.5° with case for GF300, GF309, GF320
- T197692; Battery charger, incl. power supply with multi plugs
- T910814; Power supply, incl. multi plugs
- T198511; Li-Ion Battery pack 7.4V 33Wh
- T199367ACC; Battery Li-ion 7.2 V, 4.4 Ah, 32 Wh
- T199183ACC; Battery
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910815ACC; HDMI to HDMI cable 1.5 m
- T910816ACC; HDMI to DVI cable 1.5 m
- T197555; Hard transport case for FLIR GF3xx-Series
- T951387; Wi-Fi USB micro adapter
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- T198585; FLIR VideoReport
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

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Website

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Customer support

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General description

The FLIR GF320 is an infrared camera for optical gas imaging (OGI) that visualizes and pinpoints leaks of methane and other volatile organic compounds (VOCs), without the need to shut down the operation. The portable camera also greatly improves operator safety, by detecting emissions at a safe distance, and helps to protect the environment by tracing leaks of environmentally harmful gases.

The FLIR GF320 is used in industrial settings such as oil refineries, natural gas processing plants, offshore platforms, chemical/petrochemical industries, and biogas and power generation plants.

Benefits:

- **Improved efficiency:** The FLIR GF320 reduces revenue loss by pinpointing even small gas leaks quickly and efficiently, and from a distance. It also reduces the inspection time by allowing a broad area to be scanned rapidly and without the need to interrupt the industrial process. The wireless connectivity of the camera allows you to connect to smart phones or tablets for the wireless transfer of images or remote control of the camera. The FLIR GF320 is also used for temperature measurement, which makes it even more useful for predictive maintenance.
- **Increased worker safety:** OGI allows gas leaks to be detected in a non-contact mode and from a safe distance. This reduces the risk of the user being exposed to invisible and potentially harmful or explosive chemicals. With a FLIR GF320 gas imaging camera it is easy to scan areas of interest that are difficult to reach with conventional methods. The camera is ergonomically designed, with a bright LCD and tiltable viewfinder, which facilitates its use over a full working day.
- **Protecting the environment:** Several VOCs are dangerous to human health or cause harm to the environment, and are usually governed by regulations. Even small leaks can be detected and documented using the FLIR GF320 camera.

Detects the following gases: benzene, ethanol, ethylbenzene, heptane, hexane, isoprene, methanol, MEK, MIBK, octane, pentane, 1-pentene, toluene, xylene, butane, ethane, methane, propane, ethylene, propylene.

Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<15 mK @ +30°C (+86°F)
Field of view (FOV)	14.5° × 10.8°
Minimum focus distance	0.5 m (1.64 ft.)
Focal length	38 mm (1.49 in.)
Lens identification	Automatic
F-number	1.5
Focus	Automatic (one touch) or manual (electric or on the lens)
Zoom	1–8× continuous, digital zoom
Digital image enhancement	Noise reduction filter, high sensitivity mode (HSM)

Detector data

Detector type	Focal plane array (FPA), cooled InSb
Spectral range	3.2–3.4 μm
Detector pitch	30 μm



FLIR GF320 14.5° Fixed lens

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Detector data	
Sensor cooling	Stirling Microcooler (FLIR MC-3)
Detects following gases	Benzene, Ethanol, Ethylbenzene, Heptane, Hexane, Isoprene, Methanol, MEK, MIBK, Octane, Pentane, 1-Pentene, Toluene, Xylene, Butane, Ethane, Methane, Propane, Ethylene, Propylene

Electronics and data rate	
Full frame rate	60 Hz

Image presentation	
Display	Built-in widescreen, 4.3 in. LCD, 800 × 480 pixels
Viewfinder	Built-in, tiltable OLED, 800 × 480 pixels
Automatic image adjustment	Continuous/manual; linear or histogram based
Manual image adjustment	Level/span

Image presentation modes	
Image modes	IR image, visual image, high sensitivity mode (HSM)

Measurement	
Temperature range	-20°C to +350°C (-4°F to +662°F)
Accuracy	±1°C (±1.8°F) for temperature range (0°C, to +100°C, +32°F to +212°F) or ±2% of reading for temperature range (>+100°C, >+212°F)

Measurement analysis	
Spotmeter	10
Area	5 boxes with max./min./average
Profile	1 live line (horizontal or vertical)
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from editable materials list
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
Measurement corrections	Reflected temperature, distance, atmospheric transmission, humidity, external optics

Set-up	
Menu commands	Level, span Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image
Color palettes	Iron, Gray, Rainbow, Arctic, Lava, Rainbow HC
Set-up commands	1 programmable button, overlay recording mode, local adaptation of units, language, date and time formats



FLIR GF320 14.5° Fixed lens

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Storage of images	
Storage media	Removable SD or SDHC memory card , two card slots
Image storage capacity	> 1200 images (JPEG) with post process capability per GB on memory card
Image storage mode	IR/visual images Visual image can automatically be associated with corresponding IR image
Periodic image storage	Every 10 seconds up to 24 hours
File formats	Standard JPEG, 14 bit measurement data included

Geographic Information System	
GPS	Location data automatically added to every image from built-in GPS

Video recording in camera	
Radiometric IR video recording	*.seq video clips to memory card (7.5 and 15 Hz).
Non-radiometric IR video recording	MPEG4 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR video.
Visual video recording	MPEG4 (25 minutes/clip) to memory card

Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB cable or to mobile devices using Wi-Fi. PC software capable of displaying the video stream include the following: <ul style="list-style-type: none">• FLIR IR Camera Player• FLIR ResearchIR• FLIR Tools
Non-radiometric IR video streaming	RTP/MPEG4

Digital camera	
Built-in digital camera	3.2 Mpixels, auto focus, and two video lamps

Laser pointer	
Laser	Activated by dedicated button
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

USB	
USB	<ul style="list-style-type: none">• USB-A: Connect external USB device• USB Mini-B: Data transfer to and from PC
USB, standard	USB Mini-B: 2.0 high speed

Composite video	
Video out	Digital video output (image)

Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	7.2 V



FLIR GF320 14.5° Fixed lens

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Power system	
Battery capacity	4.4 Ah
Battery operating time	> 3 hours at 25°C (+77°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 95% capacity, charging status indicated by LED's
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
DC operation	10.8 to 16 V DC, polarity protected (proprietary protected)
Power	8.5 W typically
Start-up time	Typically 7 min. @ 25°C (+77°F)

Environmental data	
Operating temperature range	–20°C to +50°C (–4°F to +122°F)
Storage temperature range	–30°C to +60°C (–22°F to +140°F)
Humidity (operating and storage)	IEC 68-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) (2 cycles)
Directives	<ul style="list-style-type: none">• 73/23EEC• 2004/108/EC• 2002/95/EC• 2002/96/EC
EMC	<ul style="list-style-type: none">• EN61000-6-4 (Emission)• EN61000-6-2 (Immunity)• FCC 47 CFR Part 15 class A (Emission)• EN 61 000-4-8, L5
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	Power supply: EN/UL/IEC 60950-1

Physical data	
Camera weight, excl. lens and battery	1.94 kg (4.27 lb.)
Camera weight, incl. lens and excl. battery	2.24 kg (4.94 lb.)
Camera weight, incl. lens and battery	2.48 kg (5.47 lb.)
Battery weight	0.24 kg (0.52 lb.)
Camera size, excl. lens (L × W × H)	284 × 169 × 161 mm (11.2 × 6.7 × 6.3 in.)
Cameras size, incl. lens (L × W × H)	305 × 169 × 161 mm (12.0 × 6.7 × 6.3 in.)
Battery size (L × W × H)	141 × 47 × 28 mm (5.5 × 1.8 × 1.1 in.)
Battery charger size (L × W × H)	158 × 122 × 25 mm (6.2 × 4.8 × 1.0 in.)
Tripod mounting	UNC ¼"-20
Housing material	Aluminum, magnesium
Grip material	TPE thermoplastic elastomers

Shipping information	
Packaging, type	Cardboard box



FLIR GF320 14.5° Fixed lens

P/N: 44402-0101

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>**Shipping information**

List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery charger• Battery, 2 ea.• Hard transport case• HDMI-DVI cable• HDMI-HDMI cable• Lens cap (mounted on lens)• Memory card• Power supply, incl. multi-plugs• Printed documentation• Shoulder strap• USB cable• Wi-Fi USB micro adapter (depending on CE and FCC regulations regarding wireless equipment for your country)
Packaging, weight	
Packaging, size	400 × 190 × 510 mm (15.7 × 7.5 × 20.1 in.)

Supplies & accessories:

- T197692; Battery charger, incl. power supply with multi plugs
- T910814; Power supply, incl. multi plugs
- T198511; Li-Ion Battery pack 7.4V 33Wh
- T199367ACC; Battery Li-ion 7.2 V, 4.4 Ah, 32 Wh
- T199183ACC; Battery
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910815ACC; HDMI to HDMI cable 1.5 m
- T910816ACC; HDMI to DVI cable 1.5 m
- T197555; Hard transport case for FLIR GF3xx-Series
- T951387; Wi-Fi USB micro adapter
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- T198585; FLIR VideoReport
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

The FLIR GF320 is an infrared camera for optical gas imaging (OGI) that visualizes and pinpoints leaks of methane and other volatile organic compounds (VOCs), without the need to shut down the operation. The portable camera also greatly improves operator safety, by detecting emissions at a safe distance, and helps to protect the environment by tracing leaks of environmentally harmful gases.

The FLIR GF320 is used in industrial settings such as oil refineries, natural gas processing plants, offshore platforms, chemical/petrochemical industries, and biogas and power generation plants.

Benefits:

- **Improved efficiency:** The FLIR GF320 reduces revenue loss by pinpointing even small gas leaks quickly and efficiently, and from a distance. It also reduces the inspection time by allowing a broad area to be scanned rapidly and without the need to interrupt the industrial process. The wireless connectivity of the camera allows you to connect to smart phones or tablets for the wireless transfer of images or remote control of the camera. The FLIR GF320 is also used for temperature measurement, which makes it even more useful for predictive maintenance.
- **Increased worker safety:** OGI allows gas leaks to be detected in a non-contact mode and from a safe distance. This reduces the risk of the user being exposed to invisible and potentially harmful or explosive chemicals. With a FLIR GF320 gas imaging camera it is easy to scan areas of interest that are difficult to reach with conventional methods. The camera is ergonomically designed, with a bright LCD and tiltable viewfinder, which facilitates its use over a full working day.
- **Protecting the environment:** Several VOCs are dangerous to human health or cause harm to the environment, and are usually governed by regulations. Even small leaks can be detected and documented using the FLIR GF320 camera.

Detects the following gases: benzene, ethanol, ethylbenzene, heptane, hexane, isoprene, methanol, MEK, MIBK, octane, pentane, 1-pentene, toluene, xylene, butane, ethane, methane, propane, ethylene, propylene.

Licensing and classification

License information

Interchangeable lens version of the FLIR GF3XX series requires US Department of State License and will be subject to limitations on resale, except inside US. Allow a minimum of 90 days after application submittal for approval.

Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<15 mK @ +30°C (+86°F)
Field of view (FOV)	24° × 18°
Minimum focus distance	0.3 m (1.0 ft.)
Focal length	23 mm (0.89 in.)
Lens identification	Automatic
F-number	1.5
Focus	Automatic (one touch) or manual (electric or on the lens)
Zoom	1–8x continuous, digital zoom
Digital image enhancement	Noise reduction filter, high sensitivity mode (HSM)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Detector data	
Detector type	Focal plane array (FPA), cooled InSb
Spectral range	3.2–3.4 μm
Detector pitch	30 μm
Sensor cooling	Stirling Microcooler (FLIR MC-3)
Detects following gases	Benzene, Ethanol, Ethylbenzene, Heptane, Hexane, Isoprene, Methanol, MEK, MIBK, Octane, Pentane, 1-Pentene, Toluene, Xylene, Butane, Ethane, Methane, Propane, Ethylene, Propylene

Electronics and data rate	
Full frame rate	60 Hz

Image presentation	
Display	Built-in widescreen, 4.3 in. LCD, 800 × 480 pixels
Viewfinder	Built-in, tiltable OLED, 800 × 480 pixels
Automatic image adjustment	Continuous/manual; linear or histogram based
Manual image adjustment	Level/span

Image presentation modes	
Image modes	IR image, visual image, high sensitivity mode (HSM)

Measurement	
Temperature range	-20°C to +350°C (-4°F to +662°F)
Accuracy	$\pm 1^\circ\text{C}$ ($\pm 1.8^\circ\text{F}$) for temperature range (0°C, to +100°C, +32°F to +212°F) or $\pm 2\%$ of reading for temperature range (>+100°C, >+212°F)

Measurement analysis	
Spotmeter	10
Area	5 boxes with max./min./average
Profile	1 live line (horizontal or vertical)
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from editable materials list
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
Measurement corrections	Reflected temperature, distance, atmospheric transmission, humidity, external optics

Set-up	
Menu commands	Level, span Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image



FLIR GF320 24°

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Set-up	
Color palettes	Iron, Gray, Rainbow, Arctic, Lava, Rainbow HC
Set-up commands	1 programmable button, overlay recording mode, local adaptation of units, language, date and time formats

Storage of images	
Storage media	Removable SD or SDHC memory card , two card slots
Image storage capacity	> 1200 images (JPEG) with post process capability per GB on memory card
Image storage mode	IR/visual images Visual image can automatically be associated with corresponding IR image
Periodic image storage	Every 10 seconds up to 24 hours
File formats	Standard JPEG, 14 bit measurement data included

Geographic Information System	
GPS	Location data automatically added to every image from built-in GPS

Video recording in camera	
Radiometric IR video recording	*.seq video clips to memory card (7.5 and 15 Hz).
Non-radiometric IR video recording	MPEG4 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR video.
Visual video recording	MPEG4 (25 minutes/clip) to memory card

Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB cable or to mobile devices using Wi-Fi. PC software capable of displaying the video stream include the following: <ul style="list-style-type: none">• FLIR IR Camera Player• FLIR ResearchIR• FLIR Tools
Non-radiometric IR video streaming	RTP/MPEG4

Digital camera	
Built-in digital camera	3.2 Mpixels, auto focus, and two video lamps

Laser pointer	
Laser	Activated by dedicated button
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

USB	
USB	<ul style="list-style-type: none">• USB-A: Connect external USB device• USB Mini-B: Data transfer to and from PC
USB, standard	USB Mini-B: 2.0 high speed



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Website

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Customer support

<http://support.flir.com>

Composite video	
Video out	Digital video output (image)

Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	7.2 V
Battery capacity	4.4 Ah
Battery operating time	> 3 hours at 25°C (+77°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 95% capacity, charging status indicated by LED's
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
DC operation	10.8 to 16 V DC, polarity protected (proprietary protected)
Power	8.5 W typically
Start-up time	Typically 7 min. @ 25°C (+77°F)

Environmental data	
Operating temperature range	–20°C to +50°C (–4°F to +122°F)
Storage temperature range	–30°C to +60°C (–22°F to +140°F)
Humidity (operating and storage)	IEC 68-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) (2 cycles)
Directives	<ul style="list-style-type: none"> • 73/23EEC • 2004/108/EC • 2002/95/EC • 2002/96/EC
EMC	<ul style="list-style-type: none"> • EN61000-6-4 (Emission) • EN61000-6-2 (Immunity) • FCC 47 CFR Part 15 class A (Emission) • EN 61 000-4-8, L5
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	Power supply: EN/UL/IEC 60950-1

Physical data	
Camera weight, excl. lens and battery	1.94 kg (4.27 lb.)
Camera weight, incl. lens and excl. battery	2.24 kg (4.94 lb.)
Camera weight, incl. lens and battery	2.48 kg (5.47 lb.)
Battery weight	0.24 kg (0.52 lb.)
Camera size, excl. lens (L × W × H)	284 × 169 × 161 mm (11.2 × 6.7 × 6.3 in.)
Cameras size, incl. lens (L × W × H)	306 × 169 × 161 mm (12.0 × 6.7 × 6.3 in.)
Battery size (L × W × H)	141 × 47 × 28 mm (5.5 × 1.8 × 1.1 in.)
Battery charger size (L × W × H)	158 × 122 × 25 mm (6.2 × 4.8 × 1.0 in.)
Tripod mounting	UNC ¼"-20
Housing material	Aluminum, magnesium
Grip material	TPE thermoplastic elastomers



FLIR GF320 24°

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>**Shipping information**

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Infrared camera with lens • Battery charger • Battery, 2 ea. • Hard transport case • HDMI-DVI cable • HDMI-HDMI cable • Lens cap (2 ea.) • Lens cap (mounted on lens) • Memory card • Power supply, incl. multi-plugs • Printed documentation • Shoulder strap • USB cable • Wi-Fi USB micro adapter (depending on CE and FCC regulations regarding wireless equipment for your country)
Packaging, weight	
Packaging, size	400 × 190 × 510 mm (15.7 × 7.5 × 20.1 in.)

Supplies & accessories:

- T197387; IR lens, 24° with case for GF300, GF309, GF320
- T197388; IR lens, 6° with case for GF300, GF309, GF320, GF346.
- T197385; IR lens, 14.5° with case for GF300, GF309, GF320
- T197692; Battery charger, incl. power supply with multi plugs
- T910814; Power supply, incl. multi plugs
- T198511; Li-Ion Battery pack 7.4V 33Wh
- T199367ACC; Battery Li-ion 7.2 V, 4.4 Ah, 32 Wh
- T199183ACC; Battery
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910815ACC; HDMI to HDMI cable 1.5 m
- T910816ACC; HDMI to DVI cable 1.5 m
- T197555; Hard transport case for FLIR GF3xx-Series
- T951387; Wi-Fi USB micro adapter
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- T198585; FLIR VideoReport
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

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Website

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Customer support

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General description

The FLIR GF320 is an infrared camera for optical gas imaging (OGI) that visualizes and pinpoints leaks of methane and other volatile organic compounds (VOCs), without the need to shut down the operation. The portable camera also greatly improves operator safety, by detecting emissions at a safe distance, and helps to protect the environment by tracing leaks of environmentally harmful gases.

The FLIR GF320 is used in industrial settings such as oil refineries, natural gas processing plants, offshore platforms, chemical/petrochemical industries, and biogas and power generation plants.

Benefits:

- **Improved efficiency:** The FLIR GF320 reduces revenue loss by pinpointing even small gas leaks quickly and efficiently, and from a distance. It also reduces the inspection time by allowing a broad area to be scanned rapidly and without the need to interrupt the industrial process. The wireless connectivity of the camera allows you to connect to smart phones or tablets for the wireless transfer of images or remote control of the camera. The FLIR GF320 is also used for temperature measurement, which makes it even more useful for predictive maintenance.
- **Increased worker safety:** OGI allows gas leaks to be detected in a non-contact mode and from a safe distance. This reduces the risk of the user being exposed to invisible and potentially harmful or explosive chemicals. With a FLIR GF320 gas imaging camera it is easy to scan areas of interest that are difficult to reach with conventional methods. The camera is ergonomically designed, with a bright LCD and tiltable viewfinder, which facilitates its use over a full working day.
- **Protecting the environment:** Several VOCs are dangerous to human health or cause harm to the environment, and are usually governed by regulations. Even small leaks can be detected and documented using the FLIR GF320 camera.

Detects the following gases: benzene, ethanol, ethylbenzene, heptane, hexane, isoprene, methanol, MEK, MIBK, octane, pentane, 1-pentene, toluene, xylene, butane, ethane, methane, propane, ethylene, propylene.

Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<15 mK @ +30°C (+86°F)
Field of view (FOV)	24° × 18°
Minimum focus distance	0.3 m (1.0 ft.)
Focal length	23 mm (0.89 in.)
Lens identification	Automatic
F-number	1.5
Focus	Automatic (one touch) or manual (electric or on the lens)
Zoom	1–8× continuous, digital zoom
Digital image enhancement	Noise reduction filter, high sensitivity mode (HSM)

Detector data

Detector type	Focal plane array (FPA), cooled InSb
Spectral range	3.2–3.4 μm
Detector pitch	30 μm

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Detector data	
Sensor cooling	Stirling Microcooler (FLIR MC-3)
Detects following gases	Benzene, Ethanol, Ethylbenzene, Heptane, Hexane, Isoprene, Methanol, MEK, MIBK, Octane, Pentane, 1-Pentene, Toluene, Xylene, Butane, Ethane, Methane, Propane, Ethylene, Propylene

Electronics and data rate	
Full frame rate	60 Hz

Image presentation	
Display	Built-in widescreen, 4.3 in. LCD, 800 × 480 pixels
Viewfinder	Built-in, tiltable OLED, 800 × 480 pixels
Automatic image adjustment	Continuous/manual; linear or histogram based
Manual image adjustment	Level/span

Image presentation modes	
Image modes	IR image, visual image, high sensitivity mode (HSM)

Measurement	
Temperature range	-20°C to +350°C (-4°F to +662°F)
Accuracy	±1°C (±1.8°F) for temperature range (0°C, to +100°C, +32°F to +212°F) or ±2% of reading for temperature range (>+100°C, >+212°F)

Measurement analysis	
Spotmeter	10
Area	5 boxes with max./min./average
Profile	1 live line (horizontal or vertical)
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from editable materials list
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
Measurement corrections	Reflected temperature, distance, atmospheric transmission, humidity, external optics

Set-up	
Menu commands	Level, span Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image
Color palettes	Iron, Gray, Rainbow, Arctic, Lava, Rainbow HC
Set-up commands	1 programmable button, overlay recording mode, local adaptation of units, language, date and time formats



FLIR GF320 24° Fixed lens

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Storage of images	
Storage media	Removable SD or SDHC memory card , two card slots
Image storage capacity	> 1200 images (JPEG) with post process capability per GB on memory card
Image storage mode	IR/visual images Visual image can automatically be associated with corresponding IR image
Periodic image storage	Every 10 seconds up to 24 hours
File formats	Standard JPEG, 14 bit measurement data included

Geographic Information System	
GPS	Location data automatically added to every image from built-in GPS

Video recording in camera	
Radiometric IR video recording	*.seq video clips to memory card (7.5 and 15 Hz).
Non-radiometric IR video recording	MPEG4 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR video.
Visual video recording	MPEG4 (25 minutes/clip) to memory card

Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB cable or to mobile devices using Wi-Fi. PC software capable of displaying the video stream include the following: <ul style="list-style-type: none">• FLIR IR Camera Player• FLIR ResearchIR• FLIR Tools
Non-radiometric IR video streaming	RTP/MPEG4

Digital camera	
Built-in digital camera	3.2 Mpixels, auto focus, and two video lamps

Laser pointer	
Laser	Activated by dedicated button
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

USB	
USB	<ul style="list-style-type: none">• USB-A: Connect external USB device• USB Mini-B: Data transfer to and from PC
USB, standard	USB Mini-B: 2.0 high speed

Composite video	
Video out	Digital video output (image)

Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	7.2 V



FLIR GF320 24° Fixed lens

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Power system	
Battery capacity	4.4 Ah
Battery operating time	> 3 hours at 25°C (+77°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 95% capacity, charging status indicated by LED's
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
DC operation	10.8 to 16 V DC, polarity protected (proprietary protected)
Power	8.5 W typically
Start-up time	Typically 7 min. @ 25°C (+77°F)

Environmental data	
Operating temperature range	–20°C to +50°C (–4°F to +122°F)
Storage temperature range	–30°C to +60°C (–22°F to +140°F)
Humidity (operating and storage)	IEC 68-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) (2 cycles)
Directives	<ul style="list-style-type: none">• 73/23EEC• 2004/108/EC• 2002/95/EC• 2002/96/EC
EMC	<ul style="list-style-type: none">• EN61000-6-4 (Emission)• EN61000-6-2 (Immunity)• FCC 47 CFR Part 15 class A (Emission)• EN 61 000-4-8, L5
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	Power supply: EN/UL/IEC 60950-1

Physical data	
Camera weight, excl. lens and battery	1.94 kg (4.27 lb.)
Camera weight, incl. lens and excl. battery	2.24 kg (4.94 lb.)
Camera weight, incl. lens and battery	2.48 kg (5.47 lb.)
Battery weight	0.24 kg (0.52 lb.)
Camera size, excl. lens (L × W × H)	284 × 169 × 161 mm (11.2 × 6.7 × 6.3 in.)
Cameras size, incl. lens (L × W × H)	306 × 169 × 161 mm (12.0 × 6.7 × 6.3 in.)
Battery size (L × W × H)	141 × 47 × 28 mm (5.5 × 1.8 × 1.1 in.)
Battery charger size (L × W × H)	158 × 122 × 25 mm (6.2 × 4.8 × 1.0 in.)
Tripod mounting	UNC ¼"-20
Housing material	Aluminum, magnesium
Grip material	TPE thermoplastic elastomers

Shipping information	
Packaging, type	Cardboard box



FLIR GF320 24° Fixed lens

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Shipping information	
List of contents	<ul style="list-style-type: none"> • Infrared camera with lens • Battery charger • Battery, 2 ea. • Hard transport case • HDMI-DVI cable • HDMI-HDMI cable • Lens cap (mounted on lens) • Memory card • Power supply, incl. multi-plugs • Printed documentation • Shoulder strap • USB cable • Wi-Fi USB micro adapter (depending on CE and FCC regulations regarding wireless equipment for your country)
Packaging, weight	8.4 kg (18.5 lb.)
Packaging, size	400 × 190 × 510 mm (15.7 × 7.5 × 20.1 in.)

Supplies & accessories:

- T197692; Battery charger, incl. power supply with multi plugs
- T910814; Power supply, incl. multi plugs
- T198511; Li-Ion Battery pack 7.4V 33Wh
- T199367ACC; Battery Li-ion 7.2 V, 4.4 Ah, 32 Wh
- T199183ACC; Battery
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910815ACC; HDMI to HDMI cable 1.5 m
- T910816ACC; HDMI to DVI cable 1.5 m
- T197555; Hard transport case for FLIR GF3xx-Series
- T951387; Wi-Fi USB micro adapter
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- T198585; FLIR VideoReport
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
<p>The FLIR GF335 is a high-sensitivity, low-noise, cooled infrared camera for applications requiring a portable camera able to detect very subtle temperature differences. The high performance of the camera makes it perfect for the detection of faint heat signatures as well as for non-destructive testing and quality control applications.</p>	
Benefits:	
<ul style="list-style-type: none"> • High performance: The FLIR GF335 features a cooled 3–5 μm InSb detector that produces razor-sharp thermal images. Its high sensitivity of <15 mK and high accuracy of $\pm 1^\circ\text{C}$ ($\pm 1.8^\circ\text{F}$) or 1% allow the user to detect very subtle temperature differences with astounding clarity. • Improved efficiency: The wireless connectivity of the FLIR GF335 allows connection to smart phones and tablets for the wireless transfer of images or the remote control of the camera—a useful function if a second person is required to accompany the user. The camera also features built-in radiometric video recording, and can store MPEG-4 thermal and/or standard video on an SD card. The camera has integrated GPS and a digital camera, and is compatible with FLIR Tools, FLIR Reporter, and FLIR Researcher software. • Thought-through ergonomics for everyday use: The FLIR GF335 is ergonomically designed, with a bright LCD and tiltable viewfinder, which facilitates its use over a full working day. A multi-angle handle with integrated direct access buttons also improves the ergonomics. 	
Licensing and classification	
License information	Interchangeable lens version of the FLIR GF3XX series requires US Department of State License and will be subject to limitations on resale, except inside US. Allow a minimum of 90 days after application submittal for approval.
Imaging and optical data	
IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<15 mK @ +30°C (+86°F)
Field of view (FOV)	24° × 18°
Minimum focus distance	0.3 m (1.0 ft.)
Focal length	23 mm (0.89 in.)
Lens identification	Automatic
F-number	1.5
Focus	Automatic (one touch) or manual (electric or on the lens)
Zoom	1–8× continuous, digital zoom
Digital image enhancement	Noise reduction filter
Detector data	
Detector type	Focal plane array (FPA), cooled InSb
Spectral range	3–5 μm
Detector pitch	30 μm



FLIR GF335 24°

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Website

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Customer support

<http://support.flir.com>

Detector data	
Sensor cooling	Stirling Microcooler (FLIR MC-3)

Electronics and data rate	
Full frame rate	60 Hz

Image presentation	
Display	Built-in widescreen, 4.3 in. LCD, 800 × 480 pixels
Viewfinder	Built-in, tiltable OLED, 800 × 480 pixels
Automatic image adjustment	Continuous/manual; linear or histogram based
Manual image adjustment	Level/span

Image presentation modes	
Image modes	IR image, visual image

Measurement	
Temperature range	-20°C to +120°C (-4°F to +248°F)
Accuracy	±1°C (±1.8°F) or ±1% of reading for temperature range 0°C to +120°C (+32°F to +248°F)

Measurement analysis	
Spotmeter	10
Area	5 boxes with max./min./average
Profile	1 live line (horizontal or vertical)
Isotherm	Above/below/interval
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from editable materials list
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
Measurement corrections	Reflected temperature, distance, atmospheric transmission, humidity, external optics

Set-up	
Menu commands	Level, span Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image
Color palettes	Iron, Gray, Rainbow, Arctic, Lava, Rainbow HC
Set-up commands	1 programmable button, local adaptation of units, language, date and time formats

Storage of images	
Storage media	Removable SD or SDHC memory card , two card slots



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Website

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Customer support

<http://support.flir.com>

Storage of images	
Image storage capacity	> 1200 images (JPEG) with post process capability per GB on memory card
Image storage mode	IR/visual images Visual image can automatically be associated with corresponding IR image
Periodic image storage	Every 10 seconds up to 24 hours
File formats	Standard JPEG, 14 bit measurement data included

Geographic Information System	
GPS	Location data automatically added to every image from built-in GPS

Video recording in camera	
Radiometric IR video recording	*.seq video clips to memory card (7.5 and 15 Hz).
Non-radiometric IR video recording	MPEG4 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR video.
Visual video recording	MPEG4 (25 minutes/clip) to memory card

Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB cable or to mobile devices using Wi-Fi. PC software capable of displaying the video stream include the following: <ul style="list-style-type: none">• FLIR IR Camera Player• FLIR ResearchIR• FLIR Tools
Non-radiometric IR video streaming	RTP/MPEG4

Digital camera	
Built-in digital camera	3.2 Mpixels, auto focus, and two video lamps

Laser pointer	
Laser	Activated by dedicated button
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

USB	
USB	<ul style="list-style-type: none">• USB-A: Connect external USB device• USB Mini-B: Data transfer to and from PC
USB, standard	USB Mini-B: 2.0 high speed

Composite video	
Video out	Digital video output (image)

Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	7.2 V
Battery capacity	4.4 Ah
Battery operating time	> 3 hours at 25°C (+77°F) and typical use



FLIR GF335 24°

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Power system	
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 95% capacity, charging status indicated by LED's
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
DC operation	10.8 to 16 V DC, polarity protected (proprietary protected)
Power	8.5 W typically
Start-up time	Typically 7 min. @ 25°C (+77°F)

Environmental data	
Operating temperature range	–20°C to +50°C (–4°F to +122°F)
Storage temperature range	–30°C to +60°C (–22°F to +140°F)
Humidity (operating and storage)	IEC 68-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) (2 cycles)
Directives	<ul style="list-style-type: none">• 73/23EEC• 2004/108/EC• 2002/95/EC• 2002/96/EC
EMC	<ul style="list-style-type: none">• EN61000-6-4 (Emission)• EN61000-6-2 (Immunity)• FCC 47 CFR Part 15 class A (Emission)• EN 61 000-4-8, L5
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	Power supply: EN/UL/IEC 60950-1

Physical data	
Camera weight, excl. lens and battery	1.94 kg (4.27 lb.)
Camera weight, incl. lens and excl. battery	2.24 kg (4.94 lb.)
Camera weight, incl. lens and battery	2.48 kg (5.47 lb.)
Battery weight	0.24 kg (0.52 lb.)
Heat shield weight	0.50 kg (1.09 lb.)
Camera size, excl. lens (L × W × H)	284 × 169 × 161 mm (11.2 × 6.7 × 6.3 in.)
Cameras size, incl. lens (L × W × H)	306 × 169 × 161 mm (12.0 × 6.7 × 6.3 in.)
Cameras size, incl. heat shield (L × W × H)	320 × 243 × 195 mm (12.6 × 9.6 × 7.7 in.)
Battery size (L × W × H)	141 × 47 × 28 mm (5.5 × 1.8 × 1.1 in.)
Battery charger size (L × W × H)	158 × 122 × 25 mm (6.2 × 4.8 × 1.0 in.)
Tripod mounting	UNC ¼"-20
Housing material	Aluminum, magnesium
Grip material	TPE thermoplastic elastomers

Shipping information	
Packaging, type	Cardboard box



FLIR GF335 24°

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>**Shipping information**

List of contents	<ul style="list-style-type: none"> • Infrared camera with lens • Battery charger • Battery, 2 ea. • FLIR ResearchIR Standard 4 • Hard transport case • HDMI-DVI cable • HDMI-HDMI cable • Lens cap (2 ea.) • Lens cap (mounted on lens) • Memory card • Power supply, incl. multi-plugs • Printed documentation • Shoulder strap • USB cable • Wi-Fi USB micro adapter (depending on CE and FCC regulations regarding wireless equipment for your country)
Packaging, weight	8.35 kg (18.4 lb.)
Packaging, size	400 × 190 × 510 mm (15.7 × 7.5 × 20.1 in.)

Supplies & accessories:

- T198267; IR lens, 24° with case for GF335, GF346
- T198298; IR lens, 14.5° with case for GF335, GF346
- T197692; Battery charger, incl. power supply with multi plugs
- T910814; Power supply, incl. multi plugs
- T198511; Li-Ion Battery pack 7.4V 33Wh
- T199367ACC; Battery Li-ion 7.2 V, 4.4 Ah, 32 Wh
- T199183ACC; Battery
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910815ACC; HDMI to HDMI cable 1.5 m
- T910816ACC; HDMI to DVI cable 1.5 m
- T197555; Hard transport case for FLIR GF3xx-Series
- T951387; Wi-Fi USB micro adapter
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

P/N: 65702-0102

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

The new FLIR GF343 is an optical gas camera for visualizing carbon dioxide (CO₂). With this camera you can quickly and easily find gas leaks where CO₂ is the main component.

Key features:

- Visualizes gas leaks in real time.
- Inspects without interruption of process.
- Traces leaks to their source.

Carbon capture and storage—stop the escalation of global warming:

- A global transition to a sustainable low-carbon economy is a necessity.
 - Global energy demand is still dominated by fossil fuels being combusted in quantities incompatible with levels required to stabilize greenhouse gases concentrations at safe levels in the atmosphere.
- CO₂ (R744)—the new environmental friendly refrigerant:

- Air-conditioning for cars—replaces R134a.
- CO₂-based heat pumps.
- Electrical power—replaces sulfur hexafluoride.

CO₂—a harmless tracer gas:

- Use CO₂ to trace leaks.

Note

The CO₂ background level in the atmosphere varies between about 400 ppm (e.g., outdoors) to 5000 ppm (e.g., very high levels indoors), and the ability to see a CO₂ leak using the FLIR GF343 depends on this gas concentration and also on the distance to the target. For example, an outdoor leak at a distance of 10 m (33') adds 4000 ppm × m to the gas concentration length.

Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<15 mK @ +30°C (+86°F)
Field of view (FOV)	24° × 18°
Minimum focus distance	0.3 m (1.0 ft.)
Focal length	23 mm (0.89 in.)
Lens identification	Automatic
F-number	1.5
Focus	Automatic (one touch) or manual (electric or on the lens)
Zoom	1–8× continuous, digital zoom
Digital image enhancement	Noise reduction filter, high sensitivity mode (HSM)

Detector data

Detector type	Focal plane array (FPA), cooled InSb
Spectral range	Built-in cold band pass filter 4.2–4.4 μm
Detector pitch	30 μm
Sensor cooling	Stirling Microcooler (FLIR MC-3)
Detects following gases	Carbon dioxide



FLIR GF343 24° Fixed lens

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Electronics and data rate	
Full frame rate	60 Hz

Image presentation	
Display	Built-in widescreen, 4.3 in. LCD, 800 × 480 pixels
Viewfinder	Built-in, tiltable OLED, 800 × 480 pixels
Automatic image adjustment	Continuous/manual; linear or histogram based
Manual image adjustment	Level/span

Image presentation modes	
Image modes	IR image, visual image, high sensitivity mode (HSM)

Set-up	
Menu commands	Level, span Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image
Color palettes	Iron, Gray, Rainbow, Arctic, Lava, Rainbow HC
Set-up commands	1 programmable button, overlay recording mode, local adaptation of units, language, date and time formats

Storage of images	
Storage media	Removable SD or SDHC memory card , two card slots
Image storage capacity	> 1200 images (JPEG) with post process capability per GB on memory card
Image storage mode	IR/visual images Visual image can automatically be associated with corresponding IR image
Periodic image storage	Every 10 seconds up to 24 hours
File formats	Standard JPEG, 14 bit measurement data included

Geographic Information System	
GPS	Location data automatically added to every image from built-in GPS

Video recording in camera	
Radiometric IR video recording	*.seq video clips to memory card (7.5 and 15 Hz).
Non-radiometric IR video recording	MPEG4 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR video.
Visual video recording	MPEG4 (25 minutes/clip) to memory card



FLIR GF343 24° Fixed lens

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB cable or to mobile devices using Wi-Fi. PC software capable of displaying the video stream include the following: <ul style="list-style-type: none">• FLIR IR Camera Player• FLIR ResearchIR• FLIR Tools
Non-radiometric IR video streaming	RTP/MPEG4

Digital camera	
Built-in digital camera	3.2 Mpixels, auto focus, and two video lamps

Laser pointer	
Laser	Activated by dedicated button
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

USB	
USB	<ul style="list-style-type: none">• USB-A: Connect external USB device• USB Mini-B: Data transfer to and from PC
USB, standard	USB Mini-B: 2.0 high speed

Composite video	
Video out	Digital video output (image)

Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	7.2 V
Battery capacity	4.4 Ah
Battery operating time	> 3 hours at 25°C (+77°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 95% capacity, charging status indicated by LED's
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
DC operation	10.8 to 16 V DC, polarity protected (proprietary protected)
Power	8.5 W typically
Start-up time	Typically 7 min. @ 25°C (+77°F)

Environmental data	
Operating temperature range	–20°C to +50°C (–4°F to +122°F)
Storage temperature range	–30°C to +60°C (–22°F to +140°F)
Humidity (operating and storage)	IEC 68-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) (2 cycles)
Directives	<ul style="list-style-type: none">• 73/23EEC• 2004/108/EC• 2002/95/EC• 2002/96/EC

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Website

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Environmental data	
EMC	<ul style="list-style-type: none"> EN61000-6-4 (Emission) EN61000-6-2 (Immunity) FCC 47 CFR Part 15 class A (Emission) EN 61 000-4-8, L5
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	Power supply: EN/UL/IEC 60950-1

Physical data	
Camera weight, excl. lens and battery	1.94 kg (4.27 lb.)
Camera weight, incl. lens and excl. battery	2.24 kg (4.94 lb.)
Camera weight, incl. lens and battery	2.48 kg (5.47 lb.)
Battery weight	0.24 kg (0.52 lb.)
Camera size, excl. lens (L x W x H)	284 x 169 x 161 mm (11.2 x 6.7 x 6.3 in.)
Cameras size, incl. lens (L x W x H)	306 x 169 x 161 mm (12.0 x 6.7 x 6.3 in.)
Battery size (L x W x H)	141 x 47 x 28 mm (5.5 x 1.8 x 1.1 in.)
Battery charger size (L x W x H)	158 x 122 x 25 mm (6.2 x 4.8 x 1.0 in.)
Tripod mounting	UNC ¼"-20
Housing material	Aluminum, magnesium
Grip material	TPE thermoplastic elastomers

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> Infrared camera with lens Battery charger Battery, 2 ea. Hard transport case HDMI-DVI cable HDMI-HDMI cable Lens cap (mounted on lens) Memory card Power supply, incl. multi-plugs Printed documentation Shoulder strap USB cable Wi-Fi USB micro adapter (depending on CE and FCC regulations regarding wireless equipment for your country)
Packaging, weight	
Packaging, size	400 x 190 x 510 mm (15.7 x 7.5 x 20.1 in.)
EAN-13	7332558008485
UPC-12	845188008840
Country of origin	Sweden

Supplies & accessories:

- T198511; Li-Ion Battery pack 7.4V 33Wh
- T199367ACC; Battery Li-ion 7.2 V, 4.4 Ah, 32 Wh
- T199183ACC; Battery
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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Website

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Customer support

<http://support.flir.com>



General description	
<p>The FLIR GF346 is an infrared camera for optical gas imaging (OGI) that visualizes and pinpoints gas leaks of carbon monoxide (CO) and other harmful gases, without the need to shut down the operation. The portable camera also greatly improves operator safety, by detecting emissions at a safe distance, and helps to protect the environment by tracing leaks of environmentally harmful gases.</p> <p>CO is an industrial gas with applications in the steel industry and bulk chemicals manufacturing. It is also used for packaging systems for fresh meat and fish.</p>	
Benefits:	
<ul style="list-style-type: none"> • Improved efficiency: The FLIR GF346 reduces revenue loss by pinpointing even small gas leaks quickly and efficiently, and from a distance. It also reduces the inspection time by allowing a broad area to be scanned rapidly and without the need to interrupt the industrial process. The wireless connectivity of the camera allows you to connect to smart phones or tablets for the wireless transfer of images or remote control of the camera. The FLIR GF346 can also be used for temperature measurement, which makes it even more useful for predictive maintenance. • Increased worker safety: CO can be toxic to humans when encountered in higher concentrations. OGI allows gas leaks to be detected in a non-contact mode and from a safe distance. This reduces the risk of the user being exposed to invisible and highly toxic gases or explosive chemicals. With a FLIR GF346 gas imaging camera it is easy to scan areas of interest that are difficult to reach with conventional methods. The camera is ergonomically designed, with a bright LCD and tiltable viewfinder, which facilitates its use over a full working day. • Protecting the environment: Several gases, such as CO, have a high global warming potential, and are usually governed by regulations. Even small leaks can be detected and documented using the FLIR GF346 camera. 	
<p>Detects the following gases: carbon monoxide, nitrous oxide, ketene, ethenone, butyl isocyanide, hexyl isocyanide, cyanogen bromide, acetonitrile, acetyl cyanide, chlorine isocyanate, bromine isocyanate, methyl thiocyanate, ethyl thiocyanate, chlorodimethylsilane, dichloromethylsilane, silane, germane, arsine.</p>	

Licensing and classification	
License information	Interchangeable lens version of the FLIR GF3XX series requires US Department of State License and will be subject to limitations on resale, except inside US. Allow a minimum of 90 days after application submittal for approval.

Imaging and optical data	
IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<15 mK @ +30°C (+86°F)
Field of view (FOV)	14.5° × 10.8°
Minimum focus distance	0.5 m (1.64 ft.)
Focal length	38 mm (1.49 in.)
Lens identification	Automatic
F-number	1.5
Focus	Automatic (one touch) or manual (electric or on the lens)
Zoom	1–8× continuous, digital zoom
Digital image enhancement	Noise reduction filter, high sensitivity mode (HSM)

P/N: 59801-0101

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Detector data	
Detector type	Focal plane array (FPA), cooled InSb
Spectral range	Built-in cold band pass filter 4.52–4.67 μm
Detector pitch	30 μm
Sensor cooling	Stirling Microcooler (FLIR MC-3)
Detects following gases	Carbon Monoxide, Nitrous Oxide, Ketene, Ethenone, Butyl Isocyanide, Hexyl Isocyanide, Cyanogen Bromide, Acetonitrile, Acetyl Cyanide, Chlorine Isocyanate, Bromine Isocyanate, Methyl Thiocyanate, Ethyl Thiocyanate, Chlorodimethylsilane, Dichloromethylsilane, Silane, Germane, Arsine

Electronics and data rate	
Full frame rate	60 Hz

Image presentation	
Display	Built-in widescreen, 4.3 in. LCD, 800 × 480 pixels
Viewfinder	Built-in, tiltable OLED, 800 × 480 pixels
Automatic image adjustment	Continuous/manual; linear or histogram based
Manual image adjustment	Level/span

Image presentation modes	
Image modes	IR image, visual image, high sensitivity mode (HSM)

Measurement	
Temperature range	-20°C to +300°C (-4°F to +572°F)
Accuracy	$\pm 1^\circ\text{C}$ ($\pm 1.8^\circ\text{F}$) or $\pm 1\%$ of reading for temperature range 0°C to +300°C (+32°F to +572°F)

Measurement analysis	
Spotmeter	10
Area	5 boxes with max./min./average
Profile	1 live line (horizontal or vertical)
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from editable materials list
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
Measurement corrections	Reflected temperature, distance, atmospheric transmission, humidity, external optics



FLIR GF346 14.5°

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Set-up	
Menu commands	Level, span Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image
Color palettes	Iron, Gray, Rainbow, Arctic, Lava, Rainbow HC
Set-up commands	1 programmable button, overlay recording mode, local adaptation of units, language, date and time formats

Storage of images	
Storage media	Removable SD or SDHC memory card , two card slots
Image storage capacity	> 1200 images (JPEG) with post process capability per GB on memory card
Image storage mode	IR/visual images Visual image can automatically be associated with corresponding IR image
Periodic image storage	Every 10 seconds up to 24 hours
File formats	Standard JPEG, 14 bit measurement data included

Geographic Information System	
GPS	Location data automatically added to every image from built-in GPS

Video recording in camera	
Radiometric IR video recording	*.seq video clips to memory card (7.5 and 15 Hz).
Non-radiometric IR video recording	MPEG4 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR video.
Visual video recording	MPEG4 (25 minutes/clip) to memory card

Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB cable or to mobile devices using Wi-Fi. PC software capable of displaying the video stream include the following: <ul style="list-style-type: none"> • FLIR IR Camera Player • FLIR ResearchIR • FLIR Tools
Non-radiometric IR video streaming	RTP/MPEG4

Digital camera	
Built-in digital camera	3.2 Mpixels, auto focus, and two video lamps

Laser pointer	
Laser	Activated by dedicated button
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)



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USB	
USB	<ul style="list-style-type: none"> • USB-A: Connect external USB device • USB Mini-B: Data transfer to and from PC
USB, standard	USB Mini-B: 2.0 high speed

Composite video	
Video out	Digital video output (image)

Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	7.2 V
Battery capacity	4.4 Ah
Battery operating time	> 3 hours at 25°C (+77°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 95% capacity, charging status indicated by LED's
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
DC operation	10.8 to 16 V DC, polarity protected (proprietary protected)
Power	8.5 W typically
Start-up time	Typically 7 min. @ 25°C (+77°F)

Environmental data	
Operating temperature range	-20°C to +50°C (-4°F to +122°F)
Storage temperature range	-30°C to +60°C (-22°F to +140°F)
Humidity (operating and storage)	IEC 68-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) (2 cycles)
Directives	<ul style="list-style-type: none"> • 73/23EEC • 2004/108/EC • 2002/95/EC • 2002/96/EC
EMC	<ul style="list-style-type: none"> • EN61000-6-4 (Emission) • EN61000-6-2 (Immunity) • FCC 47 CFR Part 15 class A (Emission) • EN 61 000-4-8, L5
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	Power supply: EN/UL/IEC 60950-1

Physical data	
Camera weight, excl. lens and battery	1.94 kg (4.27 lb.)
Camera weight, incl. lens and excl. battery	2.24 kg (4.94 lb.)
Camera weight, incl. lens and battery	2.48 kg (5.47 lb.)
Battery weight	0.24 kg (0.52 lb.)
Camera size, excl. lens (L × W × H)	284 × 169 × 161 mm (11.2 × 6.7 × 6.3 in.)
Cameras size, incl. lens (L × W × H)	305 × 169 × 161 mm (12.0 × 6.7 × 6.3 in.)
Battery size (L × W × H)	141 × 47 × 28 mm (5.5 × 1.8 × 1.1 in.)



FLIR GF346 14.5°

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Physical data	
Battery charger size (L x W x H)	158 x 122 x 25 mm (6.2 x 4.8 x 1.0 in.)
Tripod mounting	UNC 1/4"-20
Housing material	Aluminum, magnesium
Grip material	TPE thermoplastic elastomers

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery charger• Battery, 2 ea.• Hard transport case• HDMI-DVI cable• HDMI-HDMI cable• Lens cap (2 ea.)• Lens cap (mounted on lens)• Memory card• Power supply, incl. multi-plugs• Printed documentation• Shoulder strap• USB cable• Wi-Fi USB micro adapter (depending on CE and FCC regulations regarding wireless equipment for your country)
Packaging, weight	
Packaging, size	400 x 190 x 510 mm (15.7 x 7.5 x 20.1 in.)

Supplies & accessories:

- T197388; IR lens, 6° with case for GF300, GF309, GF320, GF346.
- T198267; IR lens, 24° with case for GF335, GF346
- T198298; IR lens, 14.5° with case for GF335, GF346
- T197692; Battery charger, incl. power supply with multi plugs
- T910814; Power supply, incl. multi plugs
- T198511; Li-Ion Battery pack 7.4V 33Wh
- T199367ACC; Battery Li-ion 7.2 V, 4.4 Ah, 32 Wh
- T199183ACC; Battery
- T911650ACC; Memory card SD Card 8 GB
- T910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910815ACC; HDMI to HDMI cable 1.5 m
- T910816ACC; HDMI to DVI cable 1.5 m
- T197555; Hard transport case for FLIR GF3xx-Series
- T951387; Wi-Fi USB micro adapter
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- T198585; FLIR VideoReport
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

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Website

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General description	
<p>The FLIR GF346 is an infrared camera for optical gas imaging (OGI) that visualizes and pinpoints gas leaks of carbon monoxide (CO) and other harmful gases, without the need to shut down the operation. The portable camera also greatly improves operator safety, by detecting emissions at a safe distance, and helps to protect the environment by tracing leaks of environmentally harmful gases.</p> <p>CO is an industrial gas with applications in the steel industry and bulk chemicals manufacturing. It is also used for packaging systems for fresh meat and fish.</p>	
Benefits:	
<ul style="list-style-type: none"> Improved efficiency: The FLIR GF346 reduces revenue loss by pinpointing even small gas leaks quickly and efficiently, and from a distance. It also reduces the inspection time by allowing a broad area to be scanned rapidly and without the need to interrupt the industrial process. The wireless connectivity of the camera allows you to connect to smart phones or tablets for the wireless transfer of images or remote control of the camera. The FLIR GF346 can also be used for temperature measurement, which makes it even more useful for predictive maintenance. Increased worker safety: CO can be toxic to humans when encountered in higher concentrations. OGI allows gas leaks to be detected in a non-contact mode and from a safe distance. This reduces the risk of the user being exposed to invisible and highly toxic gases or explosive chemicals. With a FLIR GF346 gas imaging camera it is easy to scan areas of interest that are difficult to reach with conventional methods. The camera is ergonomically designed, with a bright LCD and tiltable viewfinder, which facilitates its use over a full working day. Protecting the environment: Several gases, such as CO, have a high global warming potential, and are usually governed by regulations. Even small leaks can be detected and documented using the FLIR GF346 camera. 	
<p>Detects the following gases: carbon monoxide, nitrous oxide, ketene, ethenone, butyl isocyanide, hexyl isocyanide, cyanogen bromide, acetonitrile, acetyl cyanide, chlorine isocyanate, bromine isocyanate, methyl thiocyanate, ethyl thiocyanate, chlorodimethylsilane, dichloromethylsilane, silane, germane, arsine.</p>	

Imaging and optical data	
IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<15 mK @ +30°C (+86°F)
Field of view (FOV)	14.5° × 10.8°
Minimum focus distance	0.5 m (1.64 ft.)
Focal length	38 mm (1.49 in.)
Lens identification	Automatic
F-number	1.5
Focus	Automatic (one touch) or manual (electric or on the lens)
Zoom	1–8× continuous, digital zoom
Digital image enhancement	Noise reduction filter, high sensitivity mode (HSM)

Detector data	
Detector type	Focal plane array (FPA), cooled InSb
Spectral range	Built-in cold band pass filter 4.52–4.67 μm
Detector pitch	30 μm
Sensor cooling	Stirling Microcooler (FLIR MC-3)



FLIR GF346 14.5° Fixed lens

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Detector data	
Detects following gases	Carbon Monoxide, Nitrous Oxide, Ketene, Ethenone, Butyl Isocyanide, Hexyl Isocyanide, Cyanogen Bromide, Acetonitrile, Acetyl Cyanide, Chlorine Isocyanate, Bromine Isocyanate, Methyl Thiocyanate, Ethyl Thiocyanate, Chlorodimethylsilane, Dichloromethylsilane, Silane, Germane, Arsine

Electronics and data rate	
Full frame rate	60 Hz

Image presentation	
Display	Built-in widescreen, 4.3 in. LCD, 800 × 480 pixels
Viewfinder	Built-in, tiltable OLED, 800 × 480 pixels
Automatic image adjustment	Continuous/manual; linear or histogram based
Manual image adjustment	Level/span

Image presentation modes	
Image modes	IR image, visual image, high sensitivity mode (HSM)

Measurement	
Temperature range	-20°C to +300°C (-4°F to +572°F)
Accuracy	±1°C (±1.8°F) or ±1% of reading for temperature range 0°C to +300°C (+32°F to +572°F)

Measurement analysis	
Spotmeter	10
Area	5 boxes with max./min./average
Profile	1 live line (horizontal or vertical)
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from editable materials list
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
Measurement corrections	Reflected temperature, distance, atmospheric transmission, humidity, external optics

Set-up	
Menu commands	Level, span Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image
Color palettes	Iron, Gray, Rainbow, Arctic, Lava, Rainbow HC
Set-up commands	1 programmable button, overlay recording mode, local adaptation of units, language, date and time formats



FLIR GF346 14.5° Fixed lens

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Website

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Customer support

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Storage of images	
Storage media	Removable SD or SDHC memory card , two card slots
Image storage capacity	> 1200 images (JPEG) with post process capability per GB on memory card
Image storage mode	IR/visual images Visual image can automatically be associated with corresponding IR image
Periodic image storage	Every 10 seconds up to 24 hours
File formats	Standard JPEG, 14 bit measurement data included

Geographic Information System	
GPS	Location data automatically added to every image from built-in GPS

Video recording in camera	
Radiometric IR video recording	*.seq video clips to memory card (7.5 and 15 Hz).
Non-radiometric IR video recording	MPEG4 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR video.
Visual video recording	MPEG4 (25 minutes/clip) to memory card

Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB cable or to mobile devices using Wi-Fi. PC software capable of displaying the video stream include the following: <ul style="list-style-type: none">• FLIR IR Camera Player• FLIR ResearchIR• FLIR Tools
Non-radiometric IR video streaming	RTP/MPEG4

Digital camera	
Built-in digital camera	3.2 Mpixels, auto focus, and two video lamps

Laser pointer	
Laser	Activated by dedicated button
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

USB	
USB	<ul style="list-style-type: none">• USB-A: Connect external USB device• USB Mini-B: Data transfer to and from PC
USB, standard	USB Mini-B: 2.0 high speed

Composite video	
Video out	Digital video output (image)

Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	7.2 V



FLIR GF346 14.5° Fixed lens

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Customer support

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Power system	
Battery capacity	4.4 Ah
Battery operating time	> 3 hours at 25°C (+77°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 95% capacity, charging status indicated by LED's
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
DC operation	10.8 to 16 V DC, polarity protected (proprietary protected)
Power	8.5 W typically
Start-up time	Typically 7 min. @ 25°C (+77°F)

Environmental data	
Operating temperature range	–20°C to +50°C (–4°F to +122°F)
Storage temperature range	–30°C to +60°C (–22°F to +140°F)
Humidity (operating and storage)	IEC 68-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) (2 cycles)
Directives	<ul style="list-style-type: none"> • 73/23EEC • 2004/108/EC • 2002/95/EC • 2002/96/EC
EMC	<ul style="list-style-type: none"> • EN61000-6-4 (Emission) • EN61000-6-2 (Immunity) • FCC 47 CFR Part 15 class A (Emission) • EN 61 000-4-8, L5
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	Power supply: EN/UL/IEC 60950-1

Physical data	
Camera weight, excl. lens and battery	1.94 kg (4.27 lb.)
Camera weight, incl. lens and excl. battery	2.24 kg (4.94 lb.)
Camera weight, incl. lens and battery	2.48 kg (5.47 lb.)
Battery weight	0.24 kg (0.52 lb.)
Camera size, excl. lens (L × W × H)	284 × 169 × 161 mm (11.2 × 6.7 × 6.3 in.)
Cameras size, incl. lens (L × W × H)	305 × 169 × 161 mm (12.0 × 6.7 × 6.3 in.)
Battery size (L × W × H)	141 × 47 × 28 mm (5.5 × 1.8 × 1.1 in.)
Battery charger size (L × W × H)	158 × 122 × 25 mm (6.2 × 4.8 × 1.0 in.)
Tripod mounting	UNC ¼"-20
Housing material	Aluminum, magnesium
Grip material	TPE thermoplastic elastomers

Shipping information	
Packaging, type	Cardboard box



FLIR GF346 14.5° Fixed lens

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>**Shipping information**

List of contents	<ul style="list-style-type: none"> • Infrared camera with lens • Battery charger • Battery, 2 ea. • Hard transport case • HDMI-DVI cable • HDMI-HDMI cable • Lens cap (mounted on lens) • Memory card • Power supply, incl. multi-plugs • Printed documentation • Shoulder strap • USB cable • Wi-Fi USB micro adapter (depending on CE and FCC regulations regarding wireless equipment for your country)
Packaging, weight	
Packaging, size	400 × 190 × 510 mm (15.7 × 7.5 × 20.1 in.)

Supplies & accessories:

- T197692; Battery charger, incl. power supply with multi plugs
- T910814; Power supply, incl. multi plugs
- T198511; Li-Ion Battery pack 7.4V 33Wh
- T199367ACC; Battery Li-ion 7.2 V, 4.4 Ah, 32 Wh
- T199183ACC; Battery
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910815ACC; HDMI to HDMI cable 1.5 m
- T910816ACC; HDMI to DVI cable 1.5 m
- T197555; Hard transport case for FLIR GF3xx-Series
- T951387; Wi-Fi USB micro adapter
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- T198585; FLIR VideoReport
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

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General description	
<p>The FLIR GF346 is an infrared camera for optical gas imaging (OGI) that visualizes and pinpoints gas leaks of carbon monoxide (CO) and other harmful gases, without the need to shut down the operation. The portable camera also greatly improves operator safety, by detecting emissions at a safe distance, and helps to protect the environment by tracing leaks of environmentally harmful gases.</p> <p>CO is an industrial gas with applications in the steel industry and bulk chemicals manufacturing. It is also used for packaging systems for fresh meat and fish.</p>	
Benefits:	
<ul style="list-style-type: none"> • Improved efficiency: The FLIR GF346 reduces revenue loss by pinpointing even small gas leaks quickly and efficiently, and from a distance. It also reduces the inspection time by allowing a broad area to be scanned rapidly and without the need to interrupt the industrial process. The wireless connectivity of the camera allows you to connect to smart phones or tablets for the wireless transfer of images or remote control of the camera. The FLIR GF346 can also be used for temperature measurement, which makes it even more useful for predictive maintenance. • Increased worker safety: CO can be toxic to humans when encountered in higher concentrations. OGI allows gas leaks to be detected in a non-contact mode and from a safe distance. This reduces the risk of the user being exposed to invisible and highly toxic gases or explosive chemicals. With a FLIR GF346 gas imaging camera it is easy to scan areas of interest that are difficult to reach with conventional methods. The camera is ergonomically designed, with a bright LCD and tiltable viewfinder, which facilitates its use over a full working day. • Protecting the environment: Several gases, such as CO, have a high global warming potential, and are usually governed by regulations. Even small leaks can be detected and documented using the FLIR GF346 camera. 	
<p>Detects the following gases: carbon monoxide, nitrous oxide, ketene, ethenone, butyl isocyanide, hexyl isocyanide, cyanogen bromide, acetonitrile, acetyl cyanide, chlorine isocyanate, bromine isocyanate, methyl thiocyanate, ethyl thiocyanate, chlorodimethylsilane, dichloromethylsilane, silane, germane, arsine.</p>	
Licensing and classification	
License information	Interchangeable lens version of the FLIR GF3XX series requires US Department of State License and will be subject to limitations on resale, except inside US. Allow a minimum of 90 days after application submittal for approval.
Imaging and optical data	
IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<15 mK @ +30°C (+86°F)
Field of view (FOV)	24° × 18°
Minimum focus distance	0.3 m (1.0 ft.)
Focal length	23 mm (0.89 in.)
Lens identification	Automatic
F-number	1.5
Focus	Automatic (one touch) or manual (electric or on the lens)
Zoom	1–8× continuous, digital zoom
Digital image enhancement	Noise reduction filter, high sensitivity mode (HSM)



FLIR GF346 24°

P/N: 59801-0102

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Detector data	
Detector type	Focal plane array (FPA), cooled InSb
Spectral range	Built-in cold band pass filter 4.52–4.67 μm
Detector pitch	30 μm
Sensor cooling	Stirling Microcooler (FLIR MC-3)
Detects following gases	Carbon Monoxide, Nitrous Oxide, Ketene, Ethenone, Butyl Isocyanide, Hexyl Isocyanide, Cyanogen Bromide, Acetonitrile, Acetyl Cyanide, Chlorine Isocyanate, Bromine Isocyanate, Methyl Thiocyanate, Ethyl Thiocyanate, Chlorodimethylsilane, Dichloromethylsilane, Silane, Germane, Arsine

Electronics and data rate	
Full frame rate	60 Hz

Image presentation	
Display	Built-in widescreen, 4.3 in. LCD, 800 × 480 pixels
Viewfinder	Built-in, tiltable OLED, 800 × 480 pixels
Automatic image adjustment	Continuous/manual; linear or histogram based
Manual image adjustment	Level/span

Image presentation modes	
Image modes	IR image, visual image, high sensitivity mode (HSM)

Measurement	
Temperature range	–20°C to +300°C (–4°F to +572°F)
Accuracy	±1°C (±1.8°F) or ±1% of reading for temperature range 0°C to +300°C (+32°F to +572°F)

Measurement analysis	
Spotmeter	10
Area	5 boxes with max./min./average
Profile	1 live line (horizontal or vertical)
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from editable materials list
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
Measurement corrections	Reflected temperature, distance, atmospheric transmission, humidity, external optics



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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Set-up	
Menu commands	Level, span Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image
Color palettes	Iron, Gray, Rainbow, Arctic, Lava, Rainbow HC
Set-up commands	1 programmable button, overlay recording mode, local adaptation of units, language, date and time formats

Storage of images	
Storage media	Removable SD or SDHC memory card , two card slots
Image storage capacity	> 1200 images (JPEG) with post process capability per GB on memory card
Image storage mode	IR/visual images Visual image can automatically be associated with corresponding IR image
Periodic image storage	Every 10 seconds up to 24 hours
File formats	Standard JPEG, 14 bit measurement data included

Geographic Information System	
GPS	Location data automatically added to every image from built-in GPS

Video recording in camera	
Radiometric IR video recording	*.seq video clips to memory card (7.5 and 15 Hz).
Non-radiometric IR video recording	MPEG4 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR video.
Visual video recording	MPEG4 (25 minutes/clip) to memory card

Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB cable or to mobile devices using Wi-Fi. PC software capable of displaying the video stream include the following: <ul style="list-style-type: none">• FLIR IR Camera Player• FLIR ResearchIR• FLIR Tools
Non-radiometric IR video streaming	RTP/MPEG4

Digital camera	
Built-in digital camera	3.2 Mpixels, auto focus, and two video lamps

Laser pointer	
Laser	Activated by dedicated button
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)



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USB	
USB	<ul style="list-style-type: none">• USB-A: Connect external USB device• USB Mini-B: Data transfer to and from PC
USB, standard	USB Mini-B: 2.0 high speed

Composite video	
Video out	Digital video output (image)

Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	7.2 V
Battery capacity	4.4 Ah
Battery operating time	> 3 hours at 25°C (+77°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 95% capacity, charging status indicated by LED's
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
DC operation	10.8 to 16 V DC, polarity protected (proprietary protected)
Power	8.5 W typically
Start-up time	Typically 7 min. @ 25°C (+77°F)

Environmental data	
Operating temperature range	–20°C to +50°C (–4°F to +122°F)
Storage temperature range	–30°C to +60°C (–22°F to +140°F)
Humidity (operating and storage)	IEC 68-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) (2 cycles)
Directives	<ul style="list-style-type: none">• 73/23EEC• 2004/108/EC• 2002/95/EC• 2002/96/EC
EMC	<ul style="list-style-type: none">• EN61000-6-4 (Emission)• EN61000-6-2 (Immunity)• FCC 47 CFR Part 15 class A (Emission)• EN 61 000-4-8, L5
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	Power supply: EN/UL/IEC 60950-1

Physical data	
Camera weight, excl. lens and battery	1.94 kg (4.27 lb.)
Camera weight, incl. lens and excl. battery	2.24 kg (4.94 lb.)
Camera weight, incl. lens and battery	2.48 kg (5.47 lb.)
Battery weight	0.24 kg (0.52 lb.)
Camera size, excl. lens (L × W × H)	284 × 169 × 161 mm (11.2 × 6.7 × 6.3 in.)
Cameras size, incl. lens (L × W × H)	306 × 169 × 161 mm (12.0 × 6.7 × 6.3 in.)
Battery size (L × W × H)	141 × 47 × 28 mm (5.5 × 1.8 × 1.1 in.)



FLIR GF346 24°

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Physical data	
Battery charger size (L x W x H)	158 x 122 x 25 mm (6.2 x 4.8 x 1.0 in.)
Tripod mounting	UNC 1/4"-20
Housing material	Aluminum, magnesium
Grip material	TPE thermoplastic elastomers

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery charger• Battery, 2 ea.• Hard transport case• HDMI-DVI cable• HDMI-HDMI cable• Lens cap (2 ea.)• Lens cap (mounted on lens)• Memory card• Power supply, incl. multi-plugs• Printed documentation• Shoulder strap• USB cable• Wi-Fi USB micro adapter (depending on CE and FCC regulations regarding wireless equipment for your country)
Packaging, weight	
Packaging, size	400 x 190 x 510 mm (15.7 x 7.5 x 20.1 in.)

Supplies & accessories:

- T197388; IR lens, 6° with case for GF300, GF309, GF320, GF346.
- T198267; IR lens, 24° with case for GF335, GF346
- T198298; IR lens, 14.5° with case for GF335, GF346
- T197692; Battery charger, incl. power supply with multi plugs
- T910814; Power supply, incl. multi plugs
- T198511; Li-Ion Battery pack 7.4V 33Wh
- T199367ACC; Battery Li-ion 7.2 V, 4.4 Ah, 32 Wh
- T199183ACC; Battery
- T911650ACC; Memory card SD Card 8 GB
- T910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910815ACC; HDMI to HDMI cable 1.5 m
- T910816ACC; HDMI to DVI cable 1.5 m
- T197555; Hard transport case for FLIR GF3xx-Series
- T951387; Wi-Fi USB micro adapter
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- T198585; FLIR VideoReport
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

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Website

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Customer support

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General description

The FLIR GF346 is an infrared camera for optical gas imaging (OGI) that visualizes and pinpoints gas leaks of carbon monoxide (CO) and other harmful gases, without the need to shut down the operation. The portable camera also greatly improves operator safety, by detecting emissions at a safe distance, and helps to protect the environment by tracing leaks of environmentally harmful gases.

CO is an industrial gas with applications in the steel industry and bulk chemicals manufacturing. It is also used for packaging systems for fresh meat and fish.

Benefits:

- **Improved efficiency:** The FLIR GF346 reduces revenue loss by pinpointing even small gas leaks quickly and efficiently, and from a distance. It also reduces the inspection time by allowing a broad area to be scanned rapidly and without the need to interrupt the industrial process. The wireless connectivity of the camera allows you to connect to smart phones or tablets for the wireless transfer of images or remote control of the camera. The FLIR GF346 can also be used for temperature measurement, which makes it even more useful for predictive maintenance.
- **Increased worker safety:** CO can be toxic to humans when encountered in higher concentrations. OGI allows gas leaks to be detected in a non-contact mode and from a safe distance. This reduces the risk of the user being exposed to invisible and highly toxic gases or explosive chemicals. With a FLIR GF346 gas imaging camera it is easy to scan areas of interest that are difficult to reach with conventional methods. The camera is ergonomically designed, with a bright LCD and tiltable viewfinder, which facilitates its use over a full working day.
- **Protecting the environment:** Several gases, such as CO, have a high global warming potential, and are usually governed by regulations. Even small leaks can be detected and documented using the FLIR GF346 camera.

Detects the following gases: carbon monoxide, nitrous oxide, ketene, ethenone, butyl isocyanide, hexyl isocyanide, cyanogen bromide, acetonitrile, acetyl cyanide, chlorine isocyanate, bromine isocyanate, methyl thiocyanate, ethyl thiocyanate, chlorodimethylsilane, dichloromethylsilane, silane, germane, arsine.

Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<15 mK @ +30°C (+86°F)
Field of view (FOV)	24° × 18°
Minimum focus distance	0.3 m (1.0 ft.)
Focal length	23 mm (0.89 in.)
Lens identification	Automatic
F-number	1.5
Focus	Automatic (one touch) or manual (electric or on the lens)
Zoom	1–8× continuous, digital zoom
Digital image enhancement	Noise reduction filter, high sensitivity mode (HSM)

Detector data

Detector type	Focal plane array (FPA), cooled InSb
Spectral range	Built-in cold band pass filter 4.52–4.67 μm
Detector pitch	30 μm
Sensor cooling	Stirling Microcooler (FLIR MC-3)



FLIR GF346 24° Fixed lens

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Detector data	
Detects following gases	Carbon Monoxide, Nitrous Oxide, Ketene, Ethenone, Butyl Isocyanide, Hexyl Isocyanide, Cyanogen Bromide, Acetonitrile, Acetyl Cyanide, Chlorine Isocyanate, Bromine Isocyanate, Methyl Thiocyanate, Ethyl Thiocyanate, Chlorodimethylsilane, Dichloromethylsilane, Silane, Germane, Arsine

Electronics and data rate	
Full frame rate	60 Hz

Image presentation	
Display	Built-in widescreen, 4.3 in. LCD, 800 × 480 pixels
Viewfinder	Built-in, tiltable OLED, 800 × 480 pixels
Automatic image adjustment	Continuous/manual; linear or histogram based
Manual image adjustment	Level/span

Image presentation modes	
Image modes	IR image, visual image, high sensitivity mode (HSM)

Measurement	
Temperature range	-20°C to +300°C (-4°F to +572°F)
Accuracy	±1°C (±1.8°F) or ±1% of reading for temperature range 0°C to +300°C (+32°F to +572°F)

Measurement analysis	
Spotmeter	10
Area	5 boxes with max./min./average
Profile	1 live line (horizontal or vertical)
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from editable materials list
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
Measurement corrections	Reflected temperature, distance, atmospheric transmission, humidity, external optics

Set-up	
Menu commands	Level, span Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image
Color palettes	Iron, Gray, Rainbow, Arctic, Lava, Rainbow HC
Set-up commands	1 programmable button, overlay recording mode, local adaptation of units, language, date and time formats



FLIR GF346 24° Fixed lens

P/N: 59802-0102

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Website

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Customer support

<http://support.flir.com>

Storage of images	
Storage media	Removable SD or SDHC memory card , two card slots
Image storage capacity	> 1200 images (JPEG) with post process capability per GB on memory card
Image storage mode	IR/visual images Visual image can automatically be associated with corresponding IR image
Periodic image storage	Every 10 seconds up to 24 hours
File formats	Standard JPEG, 14 bit measurement data included

Geographic Information System	
GPS	Location data automatically added to every image from built-in GPS

Video recording in camera	
Radiometric IR video recording	*.seq video clips to memory card (7.5 and 15 Hz).
Non-radiometric IR video recording	MPEG4 (up to 60 minutes/clip) to memory card. Visual image can automatically be associated with corresponding recording of non-radiometric IR video.
Visual video recording	MPEG4 (25 minutes/clip) to memory card

Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB cable or to mobile devices using Wi-Fi. PC software capable of displaying the video stream include the following: <ul style="list-style-type: none">• FLIR IR Camera Player• FLIR ResearchIR• FLIR Tools
Non-radiometric IR video streaming	RTP/MPEG4

Digital camera	
Built-in digital camera	3.2 Mpixels, auto focus, and two video lamps

Laser pointer	
Laser	Activated by dedicated button
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

USB	
USB	<ul style="list-style-type: none">• USB-A: Connect external USB device• USB Mini-B: Data transfer to and from PC
USB, standard	USB Mini-B: 2.0 high speed

Composite video	
Video out	Digital video output (image)

Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	7.2 V



FLIR GF346 24° Fixed lens

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Power system	
Battery capacity	4.4 Ah
Battery operating time	> 3 hours at 25°C (+77°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 95% capacity, charging status indicated by LED's
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
DC operation	10.8 to 16 V DC, polarity protected (proprietary protected)
Power	8.5 W typically
Start-up time	Typically 7 min. @ 25°C (+77°F)

Environmental data	
Operating temperature range	–20°C to +50°C (–4°F to +122°F)
Storage temperature range	–30°C to +60°C (–22°F to +140°F)
Humidity (operating and storage)	IEC 68-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) (2 cycles)
Directives	<ul style="list-style-type: none">• 73/23EEC• 2004/108/EC• 2002/95/EC• 2002/96/EC
EMC	<ul style="list-style-type: none">• EN61000-6-4 (Emission)• EN61000-6-2 (Immunity)• FCC 47 CFR Part 15 class A (Emission)• EN 61 000-4-8, L5
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	Power supply: EN/UL/IEC 60950-1

Physical data	
Camera weight, excl. lens and battery	1.94 kg (4.27 lb.)
Camera weight, incl. lens and excl. battery	2.24 kg (4.94 lb.)
Camera weight, incl. lens and battery	2.48 kg (5.47 lb.)
Battery weight	0.24 kg (0.52 lb.)
Camera size, excl. lens (L × W × H)	284 × 169 × 161 mm (11.2 × 6.7 × 6.3 in.)
Cameras size, incl. lens (L × W × H)	306 × 169 × 161 mm (12.0 × 6.7 × 6.3 in.)
Battery size (L × W × H)	141 × 47 × 28 mm (5.5 × 1.8 × 1.1 in.)
Battery charger size (L × W × H)	158 × 122 × 25 mm (6.2 × 4.8 × 1.0 in.)
Tripod mounting	UNC ¼"-20
Housing material	Aluminum, magnesium
Grip material	TPE thermoplastic elastomers

Shipping information	
Packaging, type	Cardboard box



FLIR GF346 24° Fixed lens

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>**Shipping information**

List of contents	<ul style="list-style-type: none"> • Infrared camera with lens • Battery charger • Battery, 2 ea. • Hard transport case • HDMI-DVI cable • HDMI-HDMI cable • Lens cap (mounted on lens) • Memory card • Power supply, incl. multi-plugs • Printed documentation • Shoulder strap • USB cable • Wi-Fi USB micro adapter (depending on CE and FCC regulations regarding wireless equipment for your country)
Packaging, weight	
Packaging, size	400 × 190 × 510 mm (15.7 × 7.5 × 20.1 in.)

Supplies & accessories:

- T197692; Battery charger, incl. power supply with multi plugs
- T910814; Power supply, incl. multi plugs
- T198511; Li-Ion Battery pack 7.4V 33Wh
- T199367ACC; Battery Li-ion 7.2 V, 4.4 Ah, 32 Wh
- T199183ACC; Battery
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910815ACC; HDMI to HDMI cable 1.5 m
- T910816ACC; HDMI to DVI cable 1.5 m
- T197555; Hard transport case for FLIR GF3xx-Series
- T951387; Wi-Fi USB micro adapter
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- T198585; FLIR VideoReport
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB
- T198567; ThermoVision™ System Developers Kit Ver. 2.6
- T198566; ThermoVision™ LabVIEW® Digital Toolkit Ver. 3.3

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FLIR GFx3xx series

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

The FLIR GFx320 is an infrared camera for optical gas imaging (OGI) in explosive atmospheres that visualizes and pinpoints leaks of methane and other volatile organic compounds (VOCs), without the need to shut down the operation. The portable camera also greatly improves operator safety, by detecting emissions at a safe distance, and helps to protect the environment by tracing leaks of environmentally harmful gases.

The FLIR GFx320 is used in industrial settings such as oil refineries, natural gas processing plants, offshore platforms, chemical/petrochemical industries, and biogas and power generation plants.

Benefits:

- Certified for use in an explosive atmosphere.
- Improved efficiency: The FLIR GFx320 reduces revenue loss by pinpointing gas leaks quickly and efficiently, and from a distance. It also reduces the inspection time by allowing a broad area to be scanned rapidly and without the need to interrupt the industrial process. The FLIR GFx320 is also used for temperature measurement, which makes it even more useful for predictive maintenance.
- Increased worker safety: OGI allows gas leaks to be detected in a non-contact mode and from a safe distance. This reduces the risk of the user being exposed to invisible and potentially harmful or explosive chemicals. With a FLIR GFx320 gas imaging camera it is easy to scan areas of interest that are difficult to reach with conventional methods. The camera is ergonomically designed, with a bright LCD and tiltable viewfinder, which facilitates its use over a full working day.
- Protecting the environment: Several VOCs are dangerous to human health or cause harm to the environment, and are usually governed by regulations. Even small leaks can be detected and documented using the FLIR GFx320 camera.

Detects the following gases: benzene, ethanol, ethylbenzene, heptane, hexane, isoprene, methanol, MEK, MIBK, octane, pentane, 1-pentene, toluene, xylene, butane, ethane, methane, propane, ethylene, propylene.

Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<15 mK @ +30°C (+86°F)
Field of view (FOV)	14.5° × 10.8°
Minimum focus distance	0.5 m (1.64 ft.)
Focal length	38 mm (1.49 in.)
F-number	1.5
Focus	Manual focus
Zoom	1–8× continuous, digital zoom
Digital image enhancement	Noise reduction filter, high sensitivity mode (HSM)

Detector data

Detector type	Focal plane array (FPA), cooled InSb
Spectral range	3.2–3.4 μm
Detector pitch	30 μm
Sensor cooling	Stirling Microcooler (FLIR MC-3)
Detects following gases	Benzene, Ethanol, Ethylbenzene, Heptane, Hexane, Isoprene, Methanol, MEK, MIBK, Octane, Pentane, 1-Pentene, Toluene, Xylene, Butane, Ethane, Methane, Propane, Ethylene, Propylene



FLIR GFx320 14.5° fixed lens

P/N: 74902-0101

Revision

46125

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Electronics and data rate	
Full frame rate	60 Hz

Image presentation	
Display	Built-in widescreen, 4.3 in. LCD, 800 × 480 pixels
Viewfinder	Built-in, tiltable OLED, 800 × 480 pixels
Automatic image adjustment	Continuous/manual; linear or histogram based
Manual image adjustment	Level/span

Image presentation modes	
Image modes	IR image, visual image, high sensitivity mode (HSM)

Measurement	
Temperature range	-20°C to +350°C (-4°F to +662°F)
Accuracy	±1°C (±1.8°F) for temperature range (0°C, to +100°C, +32°F to +212°F) or ±2% of reading for temperature range (>+100°C, >+212°F)

Measurement analysis	
Spotmeter	10
Area	5 boxes with max./min./average
Profile	1 live line (horizontal or vertical)
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from editable materials list
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
Measurement corrections	Reflected temperature, distance, atmospheric transmission, humidity, external optics

Set-up	
Menu commands	<ul style="list-style-type: none"> Level, span Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image
Color palettes	<ul style="list-style-type: none"> Iron Gray Rainbow Arctic Lava Rainbow HC
Set-up commands	1 programmable button, overlay recording mode, local adaptation of units, language, date and time formats

Storage of images	
Storage media	Removable SD or SDHC memory card
Image storage capacity	2000 images (JPEG) with post process capability per GB on memory card



FLIR GFx320 14.5° fixed lens

P/N: 74902-0101

Revision

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Website

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Customer support

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Storage of images	
Image storage mode	<ul style="list-style-type: none">IR/visual imagesVisual image can automatically be associated with corresponding IR image
Periodic image storage	Every 10 seconds up to 24 hours
File formats	Standard JPEG, 14 bit measurement data included

Geographic Information System	
GPS	Location data automatically added to every image from built-in GPS

Video recording in camera	
Radiometric IR video recording	*.seq video clips to memory card (7.5 and 15 Hz).
Non-radiometric IR video recording	<ul style="list-style-type: none">MPEG4 (up to 60 minutes/clip) to memory card.Visual image can automatically be associated with corresponding recording of non-radiometric IR video.
Visual video recording	MPEG4 (25 minutes/clip) to memory card

Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB cable. PC software capable of displaying the video stream include the following: <ul style="list-style-type: none">FLIR IR Camera PlayerFLIR ResearchIRFLIR Tools
Non-radiometric IR video streaming	RTP/MPEG4

Digital camera	
Built-in digital camera	3.2 Mpixels, auto focus, and two video lamps

Laser pointer	
Laser	Activated by dedicated button
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

USB	
USB	USB Mini-B: Data transfer to and from PC
USB, standard	USB Mini-B: 2.0 high speed

Composite video	
Video out	Digital video output (image)

Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	7.2 V
Battery capacity	4.4 Ah
Battery operating time	> 3 hours at 25°C (+68°F) and typical use
Battery charging	2-bay charger or AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)



FLIR GFx320 14.5° fixed lens

P/N: 74902-0101

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Power system	
Charging time	2.5 h to 95% capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F), except for the Korean market: +10°C to +45°C (+50°F to +113°F)
DC operation	8 to 15.3 V DC, polarity protected (proprietary protected)
Power	8.5 W typically
Start-up time	Typically 7 min. @ 25°C (+77°F)

Environmental data	
Operating temperature range	-20°C to +50°C (-4°F to +122°F)
Ambient temperature range (certification range for explosive atmospheres)	-20°C to +40°C (-4°F to +104°F)
Storage temperature range	-30°C to +60°C (-22°F to +140°F)
Humidity (operating and storage)	IEC 68-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) (2 cycles)
Explosive (hazardous) environment	<ul style="list-style-type: none">• IEC 60079-0:2011• IEC 60079-11:2011• IEC 60079-15:2010 (partial)• IEC 60079-28:2015• BS EN 60079-0:2012• BS EN 60079-11:2012• BS EN 60079-15:2010• BS EN 60079-28:2015• ANSI/ISA-12.12.01-2013• CSA 22.2 No. 213• ATEX directive 2014/34/EU
Low voltage	73/23/EEC
RoHS	2011/65/EU
WEEE	2012/19/EU
EMC	<ul style="list-style-type: none">• The Electromagnetic Compatibility (EMC) Directive 2014/30/EU• EN61000-6-4 (Emission)• EN61000-6-2 (Immunity)• FCC 47 CFR Part 15 class A (Emission)• EN 61 000-4-8, L5
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/IEC 60950-1

Physical data	
Camera weight, incl. battery	2.80 kg (6.18 lbs.)
Camera weight, excl. battery	2.59 kg (5.71 lbs.)
Battery weight	0.21 kg (0.47 lbs.)
Camera size (L x W x H)	245 x 166 x 164 mm (9.6 x 6.5 x 6.4 in.)
Battery size (L x W x H)	141 x 43 x 28 mm (5.5 x 1.7 x 1.1 in.)
Battery charger size (L x W x H)	158 x 122 x 25 mm (6.2 x 4.8 x 1.0 in.)
Tripod mounting	UNC ¼"-20
Housing material	Aluminum, magnesium, silicone



FLIR GFx320 14.5° fixed lens

P/N: 74902-0101

Revision

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Website

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Customer support

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Certifications	
Compliance	<ul style="list-style-type: none">• ATEX/IECEX, Ex ic nC op is IIC T4 Gc II 3 G• ANSI/ISA-12.12.01-2013, Class I Division 2• CSA 22.2 No. 213, Class I Division 2
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery charger• Battery, 2 ea.• Hand strap• Hard transport case• HDMI-DVI cable• HDMI-HDMI cable• Lens cap (mounted on lens)• Lens cap strap• Memory card• Neck strap• Power supply, incl. multi-plugs• Printed documentation• Screwdriver TX20• USB cable
EAN-13	7332558012574
UPC-12	845188013721

- T197692; Battery charger, incl. power supply with multi plugs
- T910814; Power supply, incl. multi plugs
- T199183ACC; Battery
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910815ACC; HDMI to HDMI cable 1.5 m
- T910816ACC; HDMI to DVI cable 1.5 m
- T199466ACC; Hard transport case
- T129739ACC; Lens cap
- T129867ACC; Lens cap strap
- T129729ACC; Neck strap
- T129728ACC; Hand strap
- T911309ACC; Screwdriver TX20

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General description

The FLIR GFx320 is an infrared camera for optical gas imaging (OGI) in explosive atmospheres that visualizes and pinpoints leaks of methane and other volatile organic compounds (VOCs), without the need to shut down the operation. The portable camera also greatly improves operator safety, by detecting emissions at a safe distance, and helps to protect the environment by tracing leaks of environmentally harmful gases.

The FLIR GFx320 is used in industrial settings such as oil refineries, natural gas processing plants, offshore platforms, chemical/petrochemical industries, and biogas and power generation plants.

Benefits:

- Certified for use in an explosive atmosphere.
- Improved efficiency: The FLIR GFx320 reduces revenue loss by pinpointing gas leaks quickly and efficiently, and from a distance. It also reduces the inspection time by allowing a broad area to be scanned rapidly and without the need to interrupt the industrial process. The FLIR GFx320 is also used for temperature measurement, which makes it even more useful for predictive maintenance.
- Increased worker safety: OGI allows gas leaks to be detected in a non-contact mode and from a safe distance. This reduces the risk of the user being exposed to invisible and potentially harmful or explosive chemicals. With a FLIR GFx320 gas imaging camera it is easy to scan areas of interest that are difficult to reach with conventional methods. The camera is ergonomically designed, with a bright LCD and tiltable viewfinder, which facilitates its use over a full working day.
- Protecting the environment: Several VOCs are dangerous to human health or cause harm to the environment, and are usually governed by regulations. Even small leaks can be detected and documented using the FLIR GFx320 camera.

Detects the following gases: benzene, ethanol, ethylbenzene, heptane, hexane, isoprene, methanol, MEK, MIBK, octane, pentane, 1-pentene, toluene, xylene, butane, ethane, methane, propane, ethylene, propylene.

Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	<15 mK @ +30°C (+86°F)
Field of view (FOV)	24° × 18°
Minimum focus distance	0.3 m (1.0 ft.)
Focal length	23 mm (0.89 in.)
F-number	1.5
Focus	Manual focus
Zoom	1–8× continuous, digital zoom
Digital image enhancement	Noise reduction filter, high sensitivity mode (HSM)

Detector data

Detector type	Focal plane array (FPA), cooled InSb
Spectral range	3.2–3.4 μm
Detector pitch	30 μm
Sensor cooling	Stirling Microcooler (FLIR MC-3)
Detects following gases	Benzene, Ethanol, Ethylbenzene, Heptane, Hexane, Isoprene, Methanol, MEK, MIBK, Octane, Pentane, 1-Pentene, Toluene, Xylene, Butane, Ethane, Methane, Propane, Ethylene, Propylene



FLIR GFx320 24° fixed lens

P/N: 74902-0102

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Electronics and data rate	
Full frame rate	60 Hz

Image presentation	
Display	Built-in widescreen, 4.3 in. LCD, 800 × 480 pixels
Viewfinder	Built-in, tiltable OLED, 800 × 480 pixels
Automatic image adjustment	Continuous/manual; linear or histogram based
Manual image adjustment	Level/span

Image presentation modes	
Image modes	IR image, visual image, high sensitivity mode (HSM)

Measurement	
Temperature range	-20°C to +350°C (-4°F to +662°F)
Accuracy	±1°C (±1.8°F) for temperature range (0°C, to +100°C, +32°F to +212°F) or ±2% of reading for temperature range (>+100°C, >+212°F)

Measurement analysis	
Spotmeter	10
Area	5 boxes with max./min./average
Profile	1 live line (horizontal or vertical)
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from editable materials list
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
Measurement corrections	Reflected temperature, distance, atmospheric transmission, humidity, external optics

Set-up	
Menu commands	<ul style="list-style-type: none"> Level, span Auto adjust continuous/manual/semi-automatic Zoom Palette Start/stop recording Store image Playback/recall image
Color palettes	<ul style="list-style-type: none"> Iron Gray Rainbow Arctic Lava Rainbow HC
Set-up commands	1 programmable button, overlay recording mode, local adaptation of units, language, date and time formats

Storage of images	
Storage media	Removable SD or SDHC memory card
Image storage capacity	2000 images (JPEG) with post process capability per GB on memory card



FLIR GFx320 24° fixed lens

P/N: 74902-0102

Revision

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Storage of images	
Image storage mode	<ul style="list-style-type: none">IR/visual imagesVisual image can automatically be associated with corresponding IR image
Periodic image storage	Every 10 seconds up to 24 hours
File formats	Standard JPEG, 14 bit measurement data included

Geographic Information System	
GPS	Location data automatically added to every image from built-in GPS

Video recording in camera	
Radiometric IR video recording	*.seq video clips to memory card (7.5 and 15 Hz).
Non-radiometric IR video recording	<ul style="list-style-type: none">MPEG4 (up to 60 minutes/clip) to memory card.Visual image can automatically be associated with corresponding recording of non-radiometric IR video.
Visual video recording	MPEG4 (25 minutes/clip) to memory card

Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB cable. PC software capable of displaying the video stream include the following: <ul style="list-style-type: none">FLIR IR Camera PlayerFLIR ResearchIRFLIR Tools
Non-radiometric IR video streaming	RTP/MPEG4

Digital camera	
Built-in digital camera	3.2 Mpixels, auto focus, and two video lamps

Laser pointer	
Laser	Activated by dedicated button
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

USB	
USB	USB Mini-B: Data transfer to and from PC
USB, standard	USB Mini-B: 2.0 high speed

Composite video	
Video out	Digital video output (image)

Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	7.2 V
Battery capacity	4.4 Ah
Battery operating time	> 3 hours at 25°C (+68°F) and typical use
Battery charging	2-bay charger or AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)



FLIR GFx320 24° fixed lens

P/N: 74902-0102

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Power system	
Charging time	2.5 h to 95% capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F), except for the Korean market: +10°C to +45°C (+50°F to +113°F)
DC operation	8 to 15.3 V DC, polarity protected (proprietary protected)
Power	8.5 W typically
Start-up time	Typically 7 min. @ 25°C (+77°F)

Environmental data	
Operating temperature range	-20°C to +50°C (-4°F to +122°F)
Ambient temperature range (certification range for explosive atmospheres)	-20°C to +40°C (-4°F to +104°F)
Storage temperature range	-30°C to +60°C (-22°F to +140°F)
Humidity (operating and storage)	IEC 68-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) (2 cycles)
Explosive (hazardous) environment	<ul style="list-style-type: none"> • IEC 60079-0:2011 • IEC 60079-11:2011 • IEC 60079-15:2010 (partial) • IEC 60079-28:2015 • BS EN 60079-0:2012 • BS EN 60079-11:2012 • BS EN 60079-15:2010 • BS EN 60079-28:2015 • ANSI/ISA-12.12.01-2013 • CSA 22.2 No. 213 • ATEX directive 2014/34/EU
Low voltage	73/23/EEC
RoHS	2011/65/EU
WEEE	2012/19/EU
EMC	<ul style="list-style-type: none"> • The Electromagnetic Compatibility (EMC) Directive 2014/30/EU • EN61000-6-4 (Emission) • EN61000-6-2 (Immunity) • FCC 47 CFR Part 15 class A (Emission) • EN 61 000-4-8, L5
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/IEC 60950-1

Physical data	
Camera weight, incl. battery	2.72 kg (6.00 lbs.)
Camera weight, excl. battery	2.50 kg (5.51 lbs.)
Battery weight	0.21 kg (0.47 lbs.)
Camera size (L x W x H)	245 x 166 x 164 mm (9.6 x 6.5 x 6.4 in.)
Battery size (L x W x H)	141 x 43 x 28 mm (5.5 x 1.7 x 1.1 in.)
Battery charger size (L x W x H)	158 x 122 x 25 mm (6.2 x 4.8 x 1.0 in.)
Tripod mounting	UNC ¼"-20
Housing material	Aluminum, magnesium, silicone



FLIR GFx320 24° fixed lens

P/N: 74902-0102

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Website

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Customer support

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Certifications	
Compliance	<ul style="list-style-type: none">• ATEX/IECEX, Ex ic nC op is IIC T4 Gc II 3 G• ANSI/ISA-12.12.01-2013, Class I Division 2• CSA 22.2 No. 213, Class I Division 2
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery charger• Battery, 2 ea.• Hand strap• Hard transport case• HDMI-DVI cable• HDMI-HDMI cable• Lens cap (mounted on lens)• Lens cap strap• Memory card• Neck strap• Power supply, incl. multi-plugs• Printed documentation• Screwdriver TX20• USB cable
EAN-13	7332558012567
UPC-12	845188013714

- T197692; Battery charger, incl. power supply with multi plugs
- T910814; Power supply, incl. multi plugs
- T199183ACC; Battery
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910815ACC; HDMI to HDMI cable 1.5 m
- T910816ACC; HDMI to DVI cable 1.5 m
- T199466ACC; Hard transport case
- T129739ACC; Lens cap
- T129867ACC; Lens cap strap
- T129729ACC; Neck strap
- T129728ACC; Hand strap
- T911309ACC; Screwdriver TX20

FLIR IGM Products

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P/N: DM284

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Part number	DM284
Part name	Imaging Multimeter with IGM
<p>The FLIR DM284 is an industrial-grade imaging multimeter built for durability to ensure longevity in rugged environments. The thermal imaging function helps pinpoint electrical problems associated with, for example, electrical panels, electrical connectors, and wires, and speeds up troubleshooting by visually guiding the user to the precise location without making contact with the target equipment. With an embedded high-resolution (160 × 120) FLIR thermal imager, it is the first digital multimeter (DMM) suitable for electronics troubleshooting using FLIR'S Infrared Guided Measurement (IGM) technology. Electronic components frequently overheat before running to failure: IGM saves time by presenting a thermal image of the target under test, making potential problem components visible on the DMM display. Findings can be confirmed and analyzed using a complete set of built-in functions (diode testing, continuity testing, micro-amp measurement, etc.) necessary to perform basic electronics testing.</p>	
<p>Pinpoint problems quickly and safely with IGM:</p> <ul style="list-style-type: none"> • See exactly where to measure with the 160 × 120 resolution FLIR thermal imager. • All-in-one tool—carry just one device and always have access to thermal imaging. • Scan panels or cabinets for hazards using IGM without direct contact. • Troubleshoot challenging problems with ease: 18 function DMM including VFD mode, true RMS, LoZ and NCV. • Thermocouple input. • View thermal and electrical thermocouple measurements simultaneously, with a temperature differential option. 	
<p>Design and functionality vital to professionals:</p> <ul style="list-style-type: none"> • Built-in worklights and a laser pointer help you to access difficult locations with lighting issues and to pinpoint the location of the problem in the thermal image. • Simple user interface and various thermal color palettes to choose from: Iron, Rainbow, Gray scale. • Durable and drop tested to 3 m (9.8 ft.). 	
<p>Functions:</p> <p>IGM, DC voltage, AC voltage, DC current (including μA), AC current (including μA), resistance, type K thermocouple contact temperature, capacitance, frequency, diode, continuity.</p>	
<p>Features: minimum, maximum, average, auto power off, hold, relative, peak hold.</p>	

Thermal imaging	
Detector type	FLIR Lepton; micro-bolometer focal plane array (FPA)
IR imaging resolution (H × V)	160 × 120 pixels
IR imaging field of view (H × V)	50.0°
IR imaging spectral response	8–14 μm
Thermal sensitivity	150 mK
IR image capture frequency	9 Hz
IR image color palettes	Rainbow, Iron, Gray scale
Laser pointer type	Class I (red)



FLIR DM284: Imaging Multimeter with IGM

P/N: DM284

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2017-05-09 13:46 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Thermal imaging	
Laser pointer power	<0.4 mW
IR temperature measurement range	-10 to 150°C (14 to 302°F)
Over- and under-range indication	OL
Temperature reading stabilization	Dashes are displayed for approximately 30 seconds as the temperature reading stabilizes
IR temperature resolution	0.1°C (0.1°F)
IR temperature accuracy	±3°C (5.4°F) or ± 3% of the reading (whichever is greater) for >25°C (77°F), ±5°C -10°C to 25°C (14°F to 77°F)
Distance-to-spot (D:S) ratio	30:1
Emissivity adjustment	0.95 maximum, 4 presets plus a custom setting (0.10-0.99)
Targeting	Displayed cross-hairs pinpoint the center of the measurement spot
Hold	Image with measurement

Electrical measurement	
Maximum voltage	1000 V DC or 1000 V AC RMS
Display count	6000
Frequency counter	<ul style="list-style-type: none">• 100.00 Hz ± (0.1% + 2D)• 1000.0 Hz ± (0.1% + 2D)• 10.000 kHz ± (0.1% + 2D)• 100.00 kHz ± (0.1% + 2D)
Resistance	<ul style="list-style-type: none">• 600.0 Ω ± (0.9% + 5D)• 6.000 kΩ ± (0.9% + 2D)• 60.00 kΩ ± (0.9% + 2D)• 600.0 kΩ ± (0.9% + 2D)• 6.000 MΩ ± (0.9% + 2D)• 50.00 MΩ ± (3.0% + 5D)
Continuity check	600.0 Ω ± (0.9% + 5D)
Diode test	1.500 ± (0.9% + 2D)
Capacitance	<ul style="list-style-type: none">• 1000 nF ± (1.9% + 5D)• 10.00 μF ± (1.9% + 2 digits)• 100.0 μF ± (0.9% + 2 digits)• 1.000 mF ± (0.9% + 2 digits)• 10.00 mF ± (0.9% + 2 digits)• 40.00 mF ± (2.0% + 20 digits)
Temperature, type K thermocouple	<ul style="list-style-type: none">• -40 to 752.0°F DMM ± (1.0% + 5.4°F)/ IGM ± (1.0% + 9°F)• -40 to 400°C DMM ± (1.0% + 3°C)/ IGM ± (1.0% + 5°C)
Measuring rate	3 samples per second

Meter data	
Category rating	CAT IV—600 V, CAT III—1000 V
IP rating	IP54
Drop test	3M
Warranty	10-10 limited warranty
Calibration cycle	Once per year, recommended

Certifications	
Certifications	UL, CE, FCC, CB
Safety standards compliance	IEC 61010-1 CAT IV—600 V, CAT III—1000 V



FLIR DM284: Imaging Multimeter with IGM

P/N: DM284

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Power system	
Power requirements	4 × 1.5 V AAA alkaline batteries. Or optional TA04 rechargeable lithium polymer rechargeable battery system
Battery life, alkaline batteries	Approximately 5 hours DMM or 2 hours IGM
Battery life, lithium polymer batteries	Approximately 30 hours DMM or 10 hours IGM
Auto power off	Default: 20 minutes

Environmental data	
Operating ambient temperatures and relative humidity (RH)	-10 to 30°C (14 to 86°F), <85% RH 30 to 40°C (86 to 104°F), <75% RH 40 to 50°C (104 to 122°F), <45% RH
Storage temperature and RH	-20 to 60°C (-4 to 140°F), 0-80% RH (without batteries)
Temperature coefficient	0.1 × (specified accuracy)/°C, <18°C (64.4°F), >28°C (82.4°F)
Operating altitude	2000 m (6560 ft.)
Pollution degree	2
EMC	EN61326-1
Shock vibration	Per MIL-PRF-28800F Class 2

Meter physical data	
Weight	536 g (18.9 oz.)
Dimensions (L × W × H)	200 mm × 95 mm × 49 mm (7.9 in. × 3.7 in. × 1.9 in.)
Material	PC/ABS
Color	Gray, black, and blue

Shipping information	
Packaging type	Color box with a view of the product in the clamshell
Packaging contents	DM284 FLIR meter, TA82 premium test leads, TA70 alligator clips, TA60 thermocouple probe with adapter, TA84 test lead holder storage/tripod accessory, 4 × AAA Energizer batteries, English-only quick start guide
Packaging weight	1.2 kg (2.6 lb.)
Packaging dimensions (H × W × L)	32 cm × 14 cm × 11 cm (12.6 in. × 5.5 in. × 4.3 in.)
Carton weight	15 kg (33 lb.)
Carton dimensions (H × W × L)	65 cm × 30 cm × 56 cm (25.6 in. × 11.8 in. × 22.0 in.)
Carton quantity	12
EAN-13	0793950372845
UPC-12	793950372845
Country of origin	Taiwan
Tariff Code	9030310000

Technical support	
Website	http://support.flir.com
E-mail	TMSupport@flir.com



FLIR DM284: Imaging Multimeter with IGM

P/N: DM284

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Technical support	
Phone	855-499-3662
Repairs	repair@flir.com
Accessories	
DM284 Imaging True RMS Industrial Multimeter with IGM	
TA72 Universal Flex Current Probe Accessory 25 cm (10 in.)	
TA74 Universal Flex Current Probe Accessory 45 cm (18 in.)	
TA04-KIT Lithium Polymer Rechargeable Battery Kit	
TA15 Soft Sided Carrying case	
TA52 Magnet Mount	
TA50 Magnetic Hanging Strap	
TA42 Belt Clip	
TA82 Premium Silicone Test Leads	
TA84 Test Lead Storage/Tripod Accessory	
TA10 Protective case for FLIR DMMs	
TA10-F Protective case for FLIR DMM's and TA7X	
TA70 CAT IV Insulated Alligator Probes (Slip On)	
TA60 Thermocouple Adapter with Type K Probe	

P/N: DM284-KIT

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38297

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Website
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Customer support
<http://support.flir.com>


General description	
Part number	DM284-KIT
Part name	DM284 Imaging Multimeter with IGM and Rechargeable Battery Pack
Kit description	The FLIR DM284 Kit includes our premium industrial-grade FLIR DM284 Imaging Multimeter with accessories and a rechargeable battery pack with an AC charging adapter. The following AC inlet clips are included: North America, Europe, UK, Australia, and Korea. For details, refer to the FLIR DM284 and TA04-KIT Salesweb datasheets.
Kit contents	DM284 with TA82, TA84, TA70, TA60 and TA04-KIT

Physical data	
Dimensions (H x W x L)	18 cm x 36.6 cm x 28 cm (7 in. x 14 in. x 11 in.)
Weight	2.3 kg (5.0 lb.)

Shipping information	
UPC	793950372852
EAN	0793950372852
Country of origin	Taiwan
Tariff code	9027.50.4020

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

P/N: DM284-FLEX-KIT

Revision

38298

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Website

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Customer support

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General description	
Part number	DM284-FLEX-KIT
Part name	DM284 Imaging Multimeter with IGM, Flex Current Probe and Rechargeable Battery Pack
Kit description	The FLIR DM284 kit includes our premium industrial-grade FLIR DM284 Imaging Multimeter with accessories, the Large Universal Flex Current Probe Accessory, and a rechargeable battery pack with an AC charging adapter. The following AC inlet clips are included: North America, Europe, UK, Australia, and Korea. For details, refer to the FLIR DM284 and TA04-KIT Salesweb datasheets.
Kit contents	DM284 with TA82, TA84, TA70, TA60 and TA74 and TA04-KIT

Physical data	
Dimensions (H x W x L)	20.4 cm x 35.6 cm x 48.3 cm (8 in. x 14 in. x 19 in.)
Weight	3.2 kg (7 lb.)

Shipping information	
UPC	793950372869
EAN	0793950372869
Country of origin	Taiwan
Tariff code	9027.50.4020

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

P/N: MR160-KIT5

Revision

35084

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

General description	
Part number	MR160-KIT5
Part name	MR160 Pro Kit
Kit description	The MR160 Pro Kit combines our MR160 Imaging Moisture Meter with IGM and our MR08 Hammer and Wall Cavity Probe Combo accessory
Kit contents	MR160 and MR08

Physical data	
Dimensions (H x W x L)	28 cm x 45.8 cm x 61 cm (11 in. x 18 in. x 24 in.)
Weight	6 kg (13.25 lbs.)

Shipping information	
UPC	793950371619
EAC	0793950371619
Country of origin	China
Tariff code	9025805000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

P/N: MR160

Revision

42566

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Website

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Customer support

<http://support.flir.com>



FLIR MR160: Imaging Moisture Meter	
Part number	MR160
Part name	Imaging Moisture Meter with IGM
<p>The FLIR MR160 Imaging Moisture Meter is the first of its kind. Equipped with a built-in thermal camera, the FLIR MR160 is the only moisture meter with the power to show you exactly where to measure. Featuring Infrared Guided Measurement (IGM) technology, the FLIR MR160 helps you quickly scan and target moisture issues, visually guiding you to the spot where you can confidently take measurements and analyze readings.</p> <p>An integrated pinless sensor and an external pin probe provide the flexibility to take either intrusive or non-intrusive measurements. Built tough with an industry-leading warranty, the FLIR MR160 can serve as your go-to troubleshooting tool right out of the box—or as the perfect complement to any high-resolution thermal camera you already own—helping you find hidden moisture issues and capture reliable data more efficiently.</p>	
<p>Identify and verify with one tool—the first-ever thermal imaging moisture meter:</p> <ul style="list-style-type: none"> • 80 × 60 Lepton thermal imager powers IGM technology. • Document thermal images and moisture readings on one screen. • Review images and generate reports with free FLIR Tools software. 	
<p>Troubleshoot quickly—easily investigate insulation and moisture issues:</p> <ul style="list-style-type: none"> • Pinless technology for fast non-intrusive measurements. • External pin probe included for contact moisture measurements. • Easy targeting with the laser pointer and display cross-hairs. 	
<p>Portable, tough and durable—drop-tested rugged design:</p> <ul style="list-style-type: none"> • Industry-leading warranty. • Small form factor to conveniently carry with you. • Internal rechargeable battery with USB. 	

Thermal imaging	
Imaging detector	FLIR Lepton, microbolometer focal plane array
Shutter	Integrated automatic shutter for auto flat field correction
Thermal image resolution (H × W)	4800 pixels (80 × 60)
Spectral response	8–14 μm
Field of view (horizontal × vertical)	51° × 38°
Upper scene range	127°C (260°F, 400 K)
Sensitivity	<150 mK
Image update speed frequency	9 Hz
Thermal image palettes	Ice
Thermal image minimum focus distance	10 cm (4")



FLIR MR160

P/N: MR160

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Website

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Customer support

<http://support.flir.com>

Moisture measurement	
Pin moisture via external probe range (accuracy)	0–100% WME ± 5%
Pin moisture groups	9 material groups
Pinless moisture range	0–100 relative measurement
Pinless moisture depth	1.9 cm (0.75") maximum
Sample rate	10 Hz (approximate, both modes)
Measurement resolution	0.1
Response time—pinless	100 ms
Response time—pin mode	750 ms

General information	
Display type (W × H)	QVGA (320 × 240 pixels), 2.3", 64 000 color, TFT graphical display
Warranty	2 years product, 10 years thermal imaging detector
Saved image file format	BMP with measurement values overlaid
Stored image capacity	9999 images
Internal memory	4 GB

Laser	
Type	Visible class 2
Orientation	Single laser pointer to center of thermal image
Power output	1.0 mW (maximum)
Wavelength	650 ± 20 nm

Certifications	
Certification standards	EN61326 (EMC), EN61010 (battery, charger), EN60825-1 Class 2 (laser)
Agency approvals	CE, FCC Class B, RCM

Power system	
Power requirements	Integrated rechargeable battery
Continuous run time	18 hours maximum
Typical usage	4 work weeks
Auto power off	Programmable: off, 1, 5, or 20 minutes
Power adapter	100–240 V input/ 5 V 1 A output
Battery	3.7 V, 3000 mAh Li ion rechargeable via micro USB

Environmental specifications	
Drop test	3 m (9.8')
IP rating	IP54 dust-protected and splash-resistant
Operating temperature	0–50°C (32–122°F)
Storage temperature	–10 to +60°C (+14 to +140°F)
Operating humidity	≤90%, 0–30°C (32–86°F) ≤ 75%, 30–40°C (86–104°F) ≤ 45%, 40–50°C (104–122°F)
Storage humidity	90% relative humidity



FLIR MR160

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Meter physical data	
Weight:	300 g (10.6 oz.)
Dimensions (H x W x L)	14 cm x 7.2 cm x 4.2 cm (5.5" x 2.9" x 1.7")
Material	PC-ABS
Color	Gray, black

Shipping information	
Packaging type	Retail color box
Packaging contents	MR160, MR02 pin probe, quick start guide, international charger, warranty card, brochure cCard
Packaging weight	0.91 kg
Packaging dimensions (L x W x H)	12.1 cm x 14 cm x 33.1 cm
Inner carton quantity	4
Inner carton weight	4.1 kg
Inner carton dimensions (L x W x H)	26.7 cm x 61 cm x 15.9 cm
Master carton quantity	12
Master carton weight	13.3 kg
Master carton dimensions (L x W x H)	64 cm x 25.8 cm x 51.2 cm
EAN-13	0793950371602
UPC-12	793950371602
Country of origin	China
Tariff code	9025805000

Accessories	
MR10	EVA Protective Case
MR05	Impact Pin Probe
MR05-PINS1	Replacement Pins for MR05
MR05-PINS2	Replacement Pins for MR05 (wide)

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

P/N: MR176-KIT5

Revision

35085

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Website

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Customer support

<http://support.flir.com>



General description	
Part number	MR176-KIT5
Part name	MR176 Pro Kit
Kit description	The MR176 Pro Kit includes our premium MR176 Imaging Moisture Meter Plus with IGM, an MR08 Hammer and Wall Cavity Probe Combo accessory, and an MR01 field-replaceable temperature and relative humidity sensor
Kit contents	MR176, MR08, and MR01

Physical data	
Dimensions (H x W x L)	28 cm x 45.8 cm x 61 cm (11 in. x 18 in. x 24 in.)
Weight	6.4 kg (14.0 lbs.)

Shipping information	
UPC	793950371718
EAC	0793950371718
Country of origin	China
Tariff code	9025805000

Technical support	
Website	http://support.flir.com
E-mail	TMSupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

P/N: MR176

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Website

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Customer support

<http://support.flir.com>



Imaging Moisture Meter Plus with IGM	
Part number	MR176
Part name	Imaging Moisture Meter Plus with IGM
<p>The FLIR MR176 Imaging Moisture Meter Plus with IGM is an all-in-one tool equipped with a built-in thermal camera that can show you exactly where to measure moisture. Featuring Infrared Guided Measurement (IGM) technology, the FLIR MR176 helps you quickly scan and target moisture issues, visually guiding you to the spot where you can confidently take measurements and analyze readings. An integrated pinless sensor and an external pin probe provide the flexibility to take either non-intrusive or intrusive measurements. Coupled with a field-replaceable temperature and relative humidity sensor, and automatically calculated environmental readings, the FLIR MR176 delivers added convenience and ease of use, producing the right measurements—faster.</p>	
<ul style="list-style-type: none"> • Visually identify hidden moisture with IGM. Easily investigate moisture issues and troubleshoot quickly. • An 80 × 60, 4800-pixel Lepton thermal imager powers IGM technology, visually indicating potential moisture areas via the color display. • Customize thermal images: select which measurements are integrated (moisture, temperature, relative humidity, dew point, vapor pressure, mixing ratio), and choose from one of four color palettes (Iron, Rainbow, Ice, Greyscale); a lock-image setting prevents extreme hot and cold temperatures from interfering with images while scanning for issues. • Equipped with a laser and cross-hair to easily reference the exact location of the potential moisture issue seen in the thermal image. Get precise readings. Confidently take measurements and analyze readings. • The field-replaceable temperature/relative humidity sensor can simply be removed from the meter and exchanged when needed, so you can continue to work and reduce downtime. • The Progressive Environmental Stability Indicator removes response time error when you move through a site to different measurement locations, informing you when the relative humidity readings have reached a steady state. • Integrated pinless moisture measurements for fast detection, and an external pin probe included with expandable probe options. Convenient and easy to operate. Get more work done in less time. • Rugged, portable design with an intuitive menu system. • Document readings and images to share via the included USB cable. • Free FLIR Tools PC software quickly generates reports. 	

Thermal imaging	
Imaging detector	FLIR Lepton, microbolometer
Image calibration	Automatic with manual lock scale option
Thermal image resolution (W × H)	4800 pixels (80 × 60)
Spectral response	8–14 μm
Field of view (W × H)	51° × 38°
Sensitivity	<150 mK
Detection limit (wet area detection @ 10 m / 32 in.)	49 cm ² (19.7 in ²)
Image update speed frequency	9 Hz
Thermal image palettes	Iron, Rainbow, Ice, Greyscale



FLIR MR176

P/N: MR176

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Thermal imaging	
Thermal image minimum focus distance	10 cm (4 in.)

Moisture measurement	
Pin moisture range	7–100%
Pin moisture accuracy	±1.5%, 7–30%
	Reference only: 30–100%
Pin moisture groups	9 material groups
Pinless moisture range	0–100
Pinless moisture accuracy	Relative
Pinless measurement depth	19 mm (0.75 in.) maximum
Measurement resolution	0.1
Response time pinless mode	100 ms
Response time pin mode	750 ms

Environmental measurement	
Relative humidity range	0–100%
Relative humidity basic accuracy	±2.5%
Relative humidity detailed accuracy	±4.7%, 0–10 ± 2.5%, 10–90 ± 4.7%, 90–100%
Air temperature range	0– 50°C (32–122°F)
Air temperature accuracy	±0.6°C (±1.1°F)
Dew point	–30 to +50°C (–22 to +122°F)
Dew point basic accuracy	±1.0°C (±1.8°F)
Vapor pressure	0.0–12.0 kPa
Vapor pressure basic accuracy	±0.05 kPa
Mixing ratio range	0.0–80.0 g/kg (0–560 GPP)
Mixing ratio basic accuracy	0.25 g/kg (±2 GPP)

General information	
Display type	QVGA (320 × 240 pixels) 2.3 in. color TFT graphical display
Language options	Meter display text can be shown in any of 14 languages
Saved image file format	Bitmap (.bmp) with measurement values overlaid
Stored image capacity	9999 images
Internal memory	4 GB

Laser	
Type	Visible class 2
Orientation	Single laser pointer to center of thermal image
Power output	Maximum 1.0 mW
Wavelength	650 ±20 nm

Power system	
Continuous run time	18 hours maximum



FLIR MR176

P/N: MR176

Revision

42567

Last modified

2017-05-09 13:53 UTC+1

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Power system	
Typical usage	4 work weeks
Auto power off	Programmable: off, 1, 5, or 20 minutes
Battery	3.7 V, 3000 mA h Li ion rechargeable via Micro USB

Certifications	
Certification standards	EN 61326 (EMC), EN 60825-1 Class 2 (Laser)
Agency approvals	CE, FCC Class B, RCM

Environmental specifications	
Operating temperature	0–50°C (32–122°F)
Storage temperature	–10 to +60°C (14–140°F)
Operating temperature	0– 50°C (32–122°F)
Storage temperature	–10 to +60°C (14–140°F)
Operating humidity	≤ 90%, 0–30°C (32–86°F) ≤ 75%, 30–40°C (86–104°F) ≤ 45%, 40–50°C (104–122°F)
Storage humidity	90% relative humidity
Drop test	3 m (9.8 ft.)

Meter physical data	
Weight:	323 g (11.4 oz.)
Dimensions (H × W × L)	17.5 cm × 7.2 cm × 4.2 cm (6.8 in. × 2.9 in. × 1.7 in.)
Material	PC-ABS
Color	Gray, black

Shipping information	
Packaging type	Retail color box
Packaging contents	FLIR MR176, FLIR MR01 Replaceable Temperature and Relative Humidity Sensor, FLIR MR02 Standard Pin Probe, quick start guide, international USB charger, USB cable
Packaging weight	0.8 kg (1.8 lb.)
Packaging dimensions (H × W × L)	33 cm × 14 cm × 12 cm (13 in. × 5.5 in. × 4.75 in.)
Inner carton quantity	4
Master carton quantity	12
UPC	793950371763
EAN	0793950371763
Country of origin	China
Tariff Code	9025805000

Technical support	
Website	http://support.flir.com
E-mail	TMSupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com



FLIR MR176

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Accessories	
MR01 Replacable T/RH Probe	
MR05 Impact Pin Probe	
MR06 Wall Cavity Probe	
MR07 Hammer Probe	
MR08 Hammer and Wall Cavity Probe Combo	
MR10 Protective Case	

Replacement parts	
MR02 Standard Pin Probe	Replacement Standard External Pin Probe
MO220-PINS	Replacement Pins for MR02 Standard Pin Probe, includes 25 pairs of pins
MR05-PINS1	Replacement Pins for MR05 (standard), includes 25 pairs of pins
MR05-PINS2	Replacement Pins for MR05 (wide), includes 25 pairs of pins
MR-PINS2	2 in. pins for MR06, MR07, MR08, includes 1 pair of pins
MR-PINS2-10	2 in. pins for MR06, MR07, MR08, includes 10 pairs of pins
MR-PINS4	4 in. pins for MR06, MR07, MR08, includes 1 pair of pins
MR-PINS6	6 in. pins for MR06, MR07, MR08, includes 1 pair of pins

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FLIR KFx series

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P/N: 70901-0101

Revision

42641

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Website

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Customer support

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General description	
<p>Large fires need substantial equipment to extinguish them as fast as possible. When entire buildings such as warehouses or other large structures catch fire, a fire truck with an aerial command platform needs to be at the scene. A fire hose is mounted on the aerial platform, and an operator directs the hose so that it sprays onto the fire. Often, the view of the operator is obstructed by smoke so that it is impossible to see if the hose is directed onto the flames. But with a thermal imaging camera like the FLIR KF6, the operator is able to see through the smoke. The flames will appear white in the thermal image and the water spray black, so that the operator can see if they are effectively hitting the flames.</p>	
Benefits:	
<ul style="list-style-type: none"> • Crisp thermal images: The FLIR KF6 contains a maintenance-free, Vanadium oxide (VOx) detector that produces crisp thermal images. This allows for detailed thermal images in which even small details can be seen and small hot spots detected during overhaul operations. • FSX—Flexible Scene Enhancement: Details in the thermal image are enhanced through digital image processing inside the camera. The result is an ultra-sharp thermal image that shows more detail than a standard image. FSX makes it easier for firefighters to see through smoke and find hot spots—even in scenes with extreme temperature dynamics that are typical for a firefighting environment. • Rugged and reliable: The FLIR KF6 is designed to meet tough operating conditions. Its core is well protected by a rugged housing, meaning that the detector cannot be harmed by smoke or water. • Easy to install: The FLIR KF6 is easy to install on any aerial platform. Just connect it to 10.5–32 V DC and you will get composite video out. No communication or hand controls needed—it is fully automatic. 	

Imaging and optical data	
IR resolution	640 × 480 pixels
Thermal sensitivity/NETD	< 100 mK at f/1.4
Field of view (FOV)	69° × 56°
Focus	Fixed
F number	1.4
Image frequency	30 Hz

Detector data	
Detector type	Focal plane array, uncooled microbolometer
Spectral range	7.5–13.5 μm

Image presentation	
Image mode	TI Basic firefighting mode
Auto range	Yes

Measurement	
Object temperature range	<ul style="list-style-type: none"> • High-gain range: –25 to +135°C (–13 to +275°F) • Low-gain range: 0 to +550°C (+32 to +1022°F)
Accuracy	±10°C (±18°F) or ±10% in high gain range

Measurement analysis	
Spotmeter	1



FLIR KF6, NTSC, Top Mounted, F

P/N: 70901-0101

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Customer support

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Measurement analysis	
Isotherm	Yes

Configuration	
Video standard	NTSC
Mounting	Top mounted
Temperature unit	°F

Composite video	
Video out	Composite video output, NTSC compatible

Power system	
Power input	10.5–32 V DC (ISO 7637-2)
Start-up time	< 25 seconds
Power consumption	< 5 W average, when supplied with 28 V DC

Connector	
Power and video connector	13-pin MIL-C-38999, D38999/24FB35PN Mating connector: D38999/26FB35SN

Environmental data	
Operating temperature range	–32 to +65°C (–26 to +149°F)
Storage temperature range	–40 to +70°C (–40 to +158°F)
Humidity (operating and storage)	IEC 600 68-2-30, 24 hours, 95% relative humidity, 25–40°C (77–104°F), two cycles
EMC	<ul style="list-style-type: none">EN 61000-6-2:2005 (immunity)EN 61000-6-3:2011 (emission)FCC 47 CFR Part 15 B (emission)ISO7637-2 Road Vehicles – Electrical Disturbances from conduction and coupling – Part 2: Electrical transient conduction along supply lines only. (Immunity)
Encapsulation	IP 67 (IEC 605 29)
Shock	IEC 600 68-2-27, 25g peak half sine wave
Vibration	IEC 600 68-2-6, 0.15 mm 10 Hz to 58 Hz and 2 g 58 to 500 Hz sinusoidal

Physical data	
Weight	1.2 ± 0.1 kg (2.6 ± 0.2 lb.)
Size (L × W × H)	158 mm × 112 mm × 89 mm (6.2 in. × 4.4 in. × 3.5 in.)
Housing material	Aluminum
Color	White and black

Shipping information	
List of contents	<ul style="list-style-type: none">Infrared cameraPrinted documentation
Packaging size	247 mm × 175 mm × 175 mm (9.7 in. × 6.9 in. × 6.9 in.)
EAN-13	7332558011317
UPC-12	845188012236



FLIR KF6, NTSC, Top Mounted, F

P/N: 70901-0101

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Shipping information	
Country of origin	Sweden

Supplies and accessories:

- T129748ACC; Power and video cable, 2 m

P/N: 70901-0201

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Website

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Customer support

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General description	
<p>Large fires need substantial equipment to extinguish them as fast as possible. When entire buildings such as warehouses or other large structures catch fire, a fire truck with an aerial command platform needs to be at the scene. A fire hose is mounted on the aerial platform, and an operator directs the hose so that it sprays onto the fire. Often, the view of the operator is obstructed by smoke so that it is impossible to see if the hose is directed onto the flames. But with a thermal imaging camera like the FLIR KF6, the operator is able to see through the smoke. The flames will appear white in the thermal image and the water spray black, so that the operator can see if they are effectively hitting the flames.</p>	
Benefits:	
<ul style="list-style-type: none"> • Crisp thermal images: The FLIR KF6 contains a maintenance-free, Vanadium oxide (VOx) detector that produces crisp thermal images. This allows for detailed thermal images in which even small details can be seen and small hot spots detected during overhaul operations. • FSX—Flexible Scene Enhancement: Details in the thermal image are enhanced through digital image processing inside the camera. The result is an ultra-sharp thermal image that shows more detail than a standard image. FSX makes it easier for firefighters to see through smoke and find hot spots—even in scenes with extreme temperature dynamics that are typical for a firefighting environment. • Rugged and reliable: The FLIR KF6 is designed to meet tough operating conditions. Its core is well protected by a rugged housing, meaning that the detector cannot be harmed by smoke or water. • Easy to install: The FLIR KF6 is easy to install on any aerial platform. Just connect it to 10.5–32 V DC and you will get composite video out. No communication or hand controls needed—it is fully automatic. 	

Imaging and optical data	
IR resolution	640 × 480 pixels
Thermal sensitivity/NETD	< 100 mK at f/1.4
Field of view (FOV)	69° × 56°
Focus	Fixed
F number	1.4
Image frequency	30 Hz

Detector data	
Detector type	Focal plane array, uncooled microbolometer
Spectral range	7.5–13.5 μm

Image presentation	
Image mode	TI Basic firefighting mode
Auto range	Yes

Measurement	
Object temperature range	<ul style="list-style-type: none"> • High-gain range: –25 to +135°C (–13 to +275°F) • Low-gain range: 0 to +550°C (+32 to +1022°F)
Accuracy	±10°C (±18°F) or ±10% in high gain range

Measurement analysis	
Spotmeter	1



FLIR KF6, NTSC, Top Mounted, C

P/N: 70901-0201

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Website

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Customer support

<http://support.flir.com>

Measurement analysis	
Isotherm	Yes

Configuration	
Video standard	NTSC
Mounting	Top mounted
Temperature unit	°C

Composite video	
Video out	Composite video output, NTSC compatible

Power system	
Power input	10.5–32 V DC (ISO 7637-2)
Start-up time	< 25 seconds
Power consumption	< 5 W average, when supplied with 28 V DC

Connector	
Power and video connector	13-pin MIL-C-38999, D38999/24FB35PN Mating connector: D38999/26FB35SN

Environmental data	
Operating temperature range	–32 to +65°C (–26 to +149°F)
Storage temperature range	–40 to +70°C (–40 to +158°F)
Humidity (operating and storage)	IEC 600 68-2-30, 24 hours, 95% relative humidity, 25–40°C (77–104°F), two cycles
EMC	<ul style="list-style-type: none">• EN 61000-6-2:2005 (immunity)• EN 61000-6-3:2011 (emission)• FCC 47 CFR Part 15 B (emission)• ISO7637-2 Road Vehicles – Electrical Disturbances from conduction and coupling – Part 2: Electrical transient conduction along supply lines only. (Immunity)
Encapsulation	IP 67 (IEC 605 29)
Shock	IEC 600 68-2-27, 25g peak half sine wave
Vibration	IEC 600 68-2-6, 0.15 mm 10 Hz to 58 Hz and 2 g 58 to 500 Hz sinusoidal

Physical data	
Weight	1.2 ± 0.1 kg (2.6 ± 0.2 lb.)
Size (L × W × H)	158 mm × 112 mm × 89 mm (6.2 in. × 4.4 in. × 3.5 in.)
Housing material	Aluminum
Color	White and black

Shipping information	
List of contents	<ul style="list-style-type: none">• Infrared camera• Printed documentation
Packaging size	247 mm × 175 mm × 175 mm (9.7 in. × 6.9 in. × 6.9 in.)
EAN-13	7332558011324
UPC-12	845188012243



FLIR KF6, NTSC, Top Mounted, C

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Shipping information	
Country of origin	Sweden

Supplies and accessories:

- T129748ACC; Power and video cable, 2 m

P/N: 70901-0301

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Website

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Customer support

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General description	
<p>Large fires need substantial equipment to extinguish them as fast as possible. When entire buildings such as warehouses or other large structures catch fire, a fire truck with an aerial command platform needs to be at the scene. A fire hose is mounted on the aerial platform, and an operator directs the hose so that it sprays onto the fire. Often, the view of the operator is obstructed by smoke so that it is impossible to see if the hose is directed onto the flames. But with a thermal imaging camera like the FLIR KF6, the operator is able to see through the smoke. The flames will appear white in the thermal image and the water spray black, so that the operator can see if they are effectively hitting the flames.</p>	
Benefits:	
<ul style="list-style-type: none"> • Crisp thermal images: The FLIR KF6 contains a maintenance-free, Vanadium oxide (VOx) detector that produces crisp thermal images. This allows for detailed thermal images in which even small details can be seen and small hot spots detected during overhaul operations. • FSX—Flexible Scene Enhancement: Details in the thermal image are enhanced through digital image processing inside the camera. The result is an ultra-sharp thermal image that shows more detail than a standard image. FSX makes it easier for firefighters to see through smoke and find hot spots—even in scenes with extreme temperature dynamics that are typical for a firefighting environment. • Rugged and reliable: The FLIR KF6 is designed to meet tough operating conditions. Its core is well protected by a rugged housing, meaning that the detector cannot be harmed by smoke or water. • Easy to install: The FLIR KF6 is easy to install on any aerial platform. Just connect it to 10.5–32 V DC and you will get composite video out. No communication or hand controls needed—it is fully automatic. 	

Imaging and optical data	
IR resolution	640 × 480 pixels
Thermal sensitivity/NETD	< 100 mK at f/1.4
Field of view (FOV)	69° × 56°
Focus	Fixed
F number	1.4
Image frequency	30 Hz

Detector data	
Detector type	Focal plane array, uncooled microbolometer
Spectral range	7.5–13.5 μm

Image presentation	
Image mode	TI Basic firefighting mode
Auto range	Yes

Measurement	
Object temperature range	<ul style="list-style-type: none"> • High-gain range: –25 to +135°C (–13 to +275°F) • Low-gain range: 0 to +550°C (+32 to +1022°F)
Accuracy	±10°C (±18°F) or ±10% in high gain range

Measurement analysis	
Spotmeter	1



FLIR KF6, NTSC, Bottom Mounted, F

P/N: 70901-0301

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Measurement analysis	
Isotherm	Yes

Configuration	
Video standard	NTSC
Mounting	Bottom mounted
Temperature unit	°F

Composite video	
Video out	Composite video output, NTSC compatible

Power system	
Power input	10.5–32 V DC (ISO 7637-2)
Start-up time	< 25 seconds
Power consumption	< 5 W average, when supplied with 28 V DC

Connector	
Power and video connector	13-pin MIL-C-38999, D38999/24FB35PN Mating connector: D38999/26FB35SN

Environmental data	
Operating temperature range	–32 to +65°C (–26 to +149°F)
Storage temperature range	–40 to +70°C (–40 to +158°F)
Humidity (operating and storage)	IEC 600 68-2-30, 24 hours, 95% relative humidity, 25–40°C (77–104°F), two cycles
EMC	<ul style="list-style-type: none"> EN 61000-6-2:2005 (immunity) EN 61000-6-3:2011 (emission) FCC 47 CFR Part 15 B (emission) ISO7637-2 Road Vehicles – Electrical Disturbances from conduction and coupling – Part 2: Electrical transient conduction along supply lines only. (Immunity)
Encapsulation	IP 67 (IEC 605 29)
Shock	IEC 600 68-2-27, 25g peak half sine wave
Vibration	IEC 600 68-2-6, 0.15 mm 10 Hz to 58 Hz and 2 g 58 to 500 Hz sinusoidal

Physical data	
Weight	1.2 ± 0.1 kg (2.6 ± 0.2 lb.)
Size (L × W × H)	158 mm × 112 mm × 89 mm (6.2 in. × 4.4 in. × 3.5 in.)
Housing material	Aluminum
Color	White and black

Shipping information	
List of contents	<ul style="list-style-type: none"> Infrared camera Printed documentation
Packaging size	247 mm × 175 mm × 175 mm (9.7 in. × 6.9 in. × 6.9 in.)
EAN-13	7332558011331
UPC-12	845188012250



FLIR KF6, NTSC, Bottom Mounted, F

P/N: 70901-0301

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Shipping information	
Country of origin	Sweden

Supplies and accessories:

- T129748ACC; Power and video cable, 2 m

P/N: 70901-0401

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Website

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Customer support

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General description	
<p>Large fires need substantial equipment to extinguish them as fast as possible. When entire buildings such as warehouses or other large structures catch fire, a fire truck with an aerial command platform needs to be at the scene. A fire hose is mounted on the aerial platform, and an operator directs the hose so that it sprays onto the fire. Often, the view of the operator is obstructed by smoke so that it is impossible to see if the hose is directed onto the flames. But with a thermal imaging camera like the FLIR KF6, the operator is able to see through the smoke. The flames will appear white in the thermal image and the water spray black, so that the operator can see if they are effectively hitting the flames.</p>	
Benefits:	
<ul style="list-style-type: none"> • Crisp thermal images: The FLIR KF6 contains a maintenance-free, Vanadium oxide (VOx) detector that produces crisp thermal images. This allows for detailed thermal images in which even small details can be seen and small hot spots detected during overhaul operations. • FSX—Flexible Scene Enhancement: Details in the thermal image are enhanced through digital image processing inside the camera. The result is an ultra-sharp thermal image that shows more detail than a standard image. FSX makes it easier for firefighters to see through smoke and find hot spots—even in scenes with extreme temperature dynamics that are typical for a firefighting environment. • Rugged and reliable: The FLIR KF6 is designed to meet tough operating conditions. Its core is well protected by a rugged housing, meaning that the detector cannot be harmed by smoke or water. • Easy to install: The FLIR KF6 is easy to install on any aerial platform. Just connect it to 10.5–32 V DC and you will get composite video out. No communication or hand controls needed—it is fully automatic. 	

Imaging and optical data	
IR resolution	640 × 480 pixels
Thermal sensitivity/NETD	< 100 mK at f/1.4
Field of view (FOV)	69° × 56°
Focus	Fixed
F number	1.4
Image frequency	30 Hz

Detector data	
Detector type	Focal plane array, uncooled microbolometer
Spectral range	7.5–13.5 μm

Image presentation	
Image mode	TI Basic firefighting mode
Auto range	Yes

Measurement	
Object temperature range	<ul style="list-style-type: none"> • High-gain range: –25 to +135°C (–13 to +275°F) • Low-gain range: 0 to +550°C (+32 to +1022°F)
Accuracy	±10°C (±18°F) or ±10% in high gain range

Measurement analysis	
Spotmeter	1



FLIR KF6, NTSC, Bottom Mounted, C

P/N: 70901-0401

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Measurement analysis	
Isotherm	Yes

Configuration	
Video standard	NTSC
Mounting	Bottom mounted
Temperature unit	°C

Composite video	
Video out	Composite video output, NTSC compatible

Power system	
Power input	10.5–32 V DC (ISO 7637-2)
Start-up time	< 25 seconds
Power consumption	< 5 W average, when supplied with 28 V DC

Connector	
Power and video connector	13-pin MIL-C-38999, D38999/24FB35PN Mating connector: D38999/26FB35SN

Environmental data	
Operating temperature range	–32 to +65°C (–26 to +149°F)
Storage temperature range	–40 to +70°C (–40 to +158°F)
Humidity (operating and storage)	IEC 600 68-2-30, 24 hours, 95% relative humidity, 25–40°C (77–104°F), two cycles
EMC	<ul style="list-style-type: none">• EN 61000-6-2:2005 (immunity)• EN 61000-6-3:2011 (emission)• FCC 47 CFR Part 15 B (emission)• ISO7637-2 Road Vehicles – Electrical Disturbances from conduction and coupling – Part 2: Electrical transient conduction along supply lines only. (Immunity)
Encapsulation	IP 67 (IEC 605 29)
Shock	IEC 600 68-2-27, 25g peak half sine wave
Vibration	IEC 600 68-2-6, 0.15 mm 10 Hz to 58 Hz and 2 g 58 to 500 Hz sinusoidal

Physical data	
Weight	1.2 ± 0.1 kg (2.6 ± 0.2 lb.)
Size (L × W × H)	158 mm × 112 mm × 89 mm (6.2 in. × 4.4 in. × 3.5 in.)
Housing material	Aluminum
Color	White and black

Shipping information	
List of contents	<ul style="list-style-type: none">• Infrared camera• Printed documentation
Packaging size	247 mm × 175 mm × 175 mm (9.7 in. × 6.9 in. × 6.9 in.)
EAN-13	7332558011348
UPC-12	845188012267



FLIR KF6, NTSC, Bottom Mounted, C

P/N: 70901-0401

Revision

42644

Last modified

2017-05-12 15:27 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Shipping information	
Country of origin	Sweden

Supplies and accessories:

- T129748ACC; Power and video cable, 2 m

P/N: 70901-0501

Revision

42645

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Website

<http://www.flir.com>

Customer support

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General description	
<p>Large fires need substantial equipment to extinguish them as fast as possible. When entire buildings such as warehouses or other large structures catch fire, a fire truck with an aerial command platform needs to be at the scene. A fire hose is mounted on the aerial platform, and an operator directs the hose so that it sprays onto the fire. Often, the view of the operator is obstructed by smoke so that it is impossible to see if the hose is directed onto the flames. But with a thermal imaging camera like the FLIR KF6, the operator is able to see through the smoke. The flames will appear white in the thermal image and the water spray black, so that the operator can see if they are effectively hitting the flames.</p>	
Benefits:	
<ul style="list-style-type: none"> • Crisp thermal images: The FLIR KF6 contains a maintenance-free, Vanadium oxide (VOx) detector that produces crisp thermal images. This allows for detailed thermal images in which even small details can be seen and small hot spots detected during overhaul operations. • FSX—Flexible Scene Enhancement: Details in the thermal image are enhanced through digital image processing inside the camera. The result is an ultra-sharp thermal image that shows more detail than a standard image. FSX makes it easier for firefighters to see through smoke and find hot spots—even in scenes with extreme temperature dynamics that are typical for a firefighting environment. • Rugged and reliable: The FLIR KF6 is designed to meet tough operating conditions. Its core is well protected by a rugged housing, meaning that the detector cannot be harmed by smoke or water. • Easy to install: The FLIR KF6 is easy to install on any aerial platform. Just connect it to 10.5–32 V DC and you will get composite video out. No communication or hand controls needed—it is fully automatic. 	

Imaging and optical data	
IR resolution	640 × 512 pixels
Thermal sensitivity/NETD	< 100 mK at f/1.4
Field of view (FOV)	69° × 56°
Focus	Fixed
F number	1.4
Image frequency	25 Hz

Detector data	
Detector type	Focal plane array, uncooled microbolometer
Spectral range	7.5–13.5 μm

Image presentation	
Image mode	TI Basic firefighting mode
Auto range	Yes

Measurement	
Object temperature range	<ul style="list-style-type: none"> • High-gain range: –25 to +135°C (–13 to +275°F) • Low-gain range: 0 to +550°C (+32 to +1022°F)
Accuracy	±10°C (±18°F) or ±10% in high gain range

Measurement analysis	
Spotmeter	1



FLIR KF6, PAL, Top Mounted, F

P/N: 70901-0501

Revision

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Website

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Customer support

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Measurement analysis	
Isotherm	Yes

Configuration	
Video standard	PAL
Mounting	Top mounted
Temperature unit	°F

Composite video	
Video out	Composite video output, PAL compatible

Power system	
Power input	10.5–32 V DC (ISO 7637-2)
Start-up time	< 25 seconds
Power consumption	< 5 W average, when supplied with 28 V DC

Connector	
Power and video connector	13-pin MIL-C-38999, D38999/24FB35PN Mating connector: D38999/26FB35SN

Environmental data	
Operating temperature range	–32 to +65°C (–26 to +149°F)
Storage temperature range	–40 to +70°C (–40 to +158°F)
Humidity (operating and storage)	IEC 600 68-2-30, 24 hours, 95% relative humidity, 25–40°C (77–104°F), two cycles
EMC	<ul style="list-style-type: none">EN 61000-6-2:2005 (immunity)EN 61000-6-3:2011 (emission)FCC 47 CFR Part 15 B (emission)ISO7637-2 Road Vehicles – Electrical Disturbances from conduction and coupling – Part 2: Electrical transient conduction along supply lines only. (Immunity)
Encapsulation	IP 67 (IEC 605 29)
Shock	IEC 600 68-2-27, 25g peak half sine wave
Vibration	IEC 600 68-2-6, 0.15 mm 10 Hz to 58 Hz and 2 g 58 to 500 Hz sinusoidal

Physical data	
Weight	1.2 ± 0.1 kg (2.6 ± 0.2 lb.)
Size (L × W × H)	158 mm × 112 mm × 89 mm (6.2 in. × 4.4 in. × 3.5 in.)
Housing material	Aluminum
Color	White and black

Shipping information	
List of contents	<ul style="list-style-type: none">Infrared cameraPrinted documentation
Packaging size	247 mm × 175 mm × 175 mm (9.7 in. × 6.9 in. × 6.9 in.)
EAN-13	7332558011355
UPC-12	845188012274



FLIR KF6, PAL, Top Mounted, F

P/N: 70901-0501

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Shipping information	
Country of origin	Sweden

Supplies and accessories:

- T129748ACC; Power and video cable, 2 m

P/N: 70901-0601

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
<p>Large fires need substantial equipment to extinguish them as fast as possible. When entire buildings such as warehouses or other large structures catch fire, a fire truck with an aerial command platform needs to be at the scene. A fire hose is mounted on the aerial platform, and an operator directs the hose so that it sprays onto the fire. Often, the view of the operator is obstructed by smoke so that it is impossible to see if the hose is directed onto the flames. But with a thermal imaging camera like the FLIR KF6, the operator is able to see through the smoke. The flames will appear white in the thermal image and the water spray black, so that the operator can see if they are effectively hitting the flames.</p>	
Benefits:	
<ul style="list-style-type: none"> • Crisp thermal images: The FLIR KF6 contains a maintenance-free, Vanadium oxide (VOx) detector that produces crisp thermal images. This allows for detailed thermal images in which even small details can be seen and small hot spots detected during overhaul operations. • FSX—Flexible Scene Enhancement: Details in the thermal image are enhanced through digital image processing inside the camera. The result is an ultra-sharp thermal image that shows more detail than a standard image. FSX makes it easier for firefighters to see through smoke and find hot spots—even in scenes with extreme temperature dynamics that are typical for a firefighting environment. • Rugged and reliable: The FLIR KF6 is designed to meet tough operating conditions. Its core is well protected by a rugged housing, meaning that the detector cannot be harmed by smoke or water. • Easy to install: The FLIR KF6 is easy to install on any aerial platform. Just connect it to 10.5–32 V DC and you will get composite video out. No communication or hand controls needed—it is fully automatic. 	

Imaging and optical data	
IR resolution	640 × 512 pixels
Thermal sensitivity/NETD	< 100 mK at f/1.4
Field of view (FOV)	69° × 56°
Focus	Fixed
F number	1.4
Image frequency	25 Hz

Detector data	
Detector type	Focal plane array, uncooled microbolometer
Spectral range	7.5–13.5 μm

Image presentation	
Image mode	TI Basic firefighting mode
Auto range	Yes

Measurement	
Object temperature range	<ul style="list-style-type: none"> • High-gain range: –25 to +135°C (–13 to +275°F) • Low-gain range: 0 to +550°C (+32 to +1022°F)
Accuracy	±10°C (±18°F) or ±10% in high gain range

Measurement analysis	
Spotmeter	1



FLIR KF6, PAL, Top Mounted, C

P/N: 70901-0601

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Measurement analysis	
Isotherm	Yes

Configuration	
Video standard	PAL
Mounting	Top mounted
Temperature unit	°C

Composite video	
Video out	Composite video output, PAL compatible

Power system	
Power input	10.5–32 V DC (ISO 7637-2)
Start-up time	< 25 seconds
Power consumption	< 5 W average, when supplied with 28 V DC

Connector	
Power and video connector	13-pin MIL-C-38999, D38999/24FB35PN Mating connector: D38999/26FB35SN

Environmental data	
Operating temperature range	–32 to +65°C (–26 to +149°F)
Storage temperature range	–40 to +70°C (–40 to +158°F)
Humidity (operating and storage)	IEC 600 68-2-30, 24 hours, 95% relative humidity, 25–40°C (77–104°F), two cycles
EMC	<ul style="list-style-type: none">• EN 61000-6-2:2005 (immunity)• EN 61000-6-3:2011 (emission)• FCC 47 CFR Part 15 B (emission)• ISO7637-2 Road Vehicles – Electrical Disturbances from conduction and coupling – Part 2: Electrical transient conduction along supply lines only. (Immunity)
Encapsulation	IP 67 (IEC 605 29)
Shock	IEC 600 68-2-27, 25g peak half sine wave
Vibration	IEC 600 68-2-6, 0.15 mm 10 Hz to 58 Hz and 2 g 58 to 500 Hz sinusoidal

Physical data	
Weight	1.2 ± 0.1 kg (2.6 ± 0.2 lb.)
Size (L × W × H)	158 mm × 112 mm × 89 mm (6.2 in. × 4.4 in. × 3.5 in.)
Housing material	Aluminum
Color	White and black

Shipping information	
List of contents	<ul style="list-style-type: none">• Infrared camera• Printed documentation
Packaging size	247 mm × 175 mm × 175 mm (9.7 in. × 6.9 in. × 6.9 in.)
EAN-13	7332558011362
UPC-12	845188012281



FLIR KF6, PAL, Top Mounted, C

P/N: 70901-0601

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Shipping information	
Country of origin	Sweden

Supplies and accessories:

- T129748ACC; Power and video cable, 2 m

P/N: 70901-0701

Revision

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Website

<http://www.flir.com>

Customer support

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General description	
<p>Large fires need substantial equipment to extinguish them as fast as possible. When entire buildings such as warehouses or other large structures catch fire, a fire truck with an aerial command platform needs to be at the scene. A fire hose is mounted on the aerial platform, and an operator directs the hose so that it sprays onto the fire. Often, the view of the operator is obstructed by smoke so that it is impossible to see if the hose is directed onto the flames. But with a thermal imaging camera like the FLIR KF6, the operator is able to see through the smoke. The flames will appear white in the thermal image and the water spray black, so that the operator can see if they are effectively hitting the flames.</p>	
Benefits:	
<ul style="list-style-type: none"> • Crisp thermal images: The FLIR KF6 contains a maintenance-free, Vanadium oxide (VOx) detector that produces crisp thermal images. This allows for detailed thermal images in which even small details can be seen and small hot spots detected during overhaul operations. • FSX—Flexible Scene Enhancement: Details in the thermal image are enhanced through digital image processing inside the camera. The result is an ultra-sharp thermal image that shows more detail than a standard image. FSX makes it easier for firefighters to see through smoke and find hot spots—even in scenes with extreme temperature dynamics that are typical for a firefighting environment. • Rugged and reliable: The FLIR KF6 is designed to meet tough operating conditions. Its core is well protected by a rugged housing, meaning that the detector cannot be harmed by smoke or water. • Easy to install: The FLIR KF6 is easy to install on any aerial platform. Just connect it to 10.5–32 V DC and you will get composite video out. No communication or hand controls needed—it is fully automatic. 	

Imaging and optical data	
IR resolution	640 × 512 pixels
Thermal sensitivity/NETD	< 100 mK at f/1.4
Field of view (FOV)	69° × 56°
Focus	Fixed
F number	1.4
Image frequency	25 Hz

Detector data	
Detector type	Focal plane array, uncooled microbolometer
Spectral range	7.5–13.5 μm

Image presentation	
Image mode	TI Basic firefighting mode
Auto range	Yes

Measurement	
Object temperature range	<ul style="list-style-type: none"> • High-gain range: –25 to +135°C (–13 to +275°F) • Low-gain range: 0 to +550°C (+32 to +1022°F)
Accuracy	±10°C (±18°F) or ±10% in high gain range

Measurement analysis	
Spotmeter	1



FLIR KF6, PAL, Bottom Mounted, F

P/N: 70901-0701

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Measurement analysis	
Isotherm	Yes

Configuration	
Video standard	PAL
Mounting	Bottom mounted
Temperature unit	°F

Composite video	
Video out	Composite video output, PAL compatible

Power system	
Power input	10.5–32 V DC (ISO 7637-2)
Start-up time	< 25 seconds
Power consumption	< 5 W average, when supplied with 28 V DC

Connector	
Power and video connector	13-pin MIL-C-38999, D38999/24FB35PN Mating connector: D38999/26FB35SN

Environmental data	
Operating temperature range	–32 to +65°C (–26 to +149°F)
Storage temperature range	–40 to +70°C (–40 to +158°F)
Humidity (operating and storage)	IEC 600 68-2-30, 24 hours, 95% relative humidity, 25–40°C (77–104°F), two cycles
EMC	<ul style="list-style-type: none">• EN 61000-6-2:2005 (immunity)• EN 61000-6-3:2011 (emission)• FCC 47 CFR Part 15 B (emission)• ISO7637-2 Road Vehicles – Electrical Disturbances from conduction and coupling – Part 2: Electrical transient conduction along supply lines only. (Immunity)
Encapsulation	IP 67 (IEC 605 29)
Shock	IEC 600 68-2-27, 25g peak half sine wave
Vibration	IEC 600 68-2-6, 0.15 mm 10 Hz to 58 Hz and 2 g 58 to 500 Hz sinusoidal

Physical data	
Weight	1.2 ± 0.1 kg (2.6 ± 0.2 lb.)
Size (L × W × H)	158 mm × 112 mm × 89 mm (6.2 in. × 4.4 in. × 3.5 in.)
Housing material	Aluminum
Color	White and black

Shipping information	
List of contents	<ul style="list-style-type: none">• Infrared camera• Printed documentation
Packaging size	247 mm × 175 mm × 175 mm (9.7 in. × 6.9 in. × 6.9 in.)
EAN-13	7332558011379
UPC-12	845188012298



FLIR KF6, PAL, Bottom Mounted, F

P/N: 70901-0701

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Shipping information	
Country of origin	Sweden

Supplies and accessories:

- T129748ACC; Power and video cable, 2 m

P/N: 70901-0801

Revision

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Website

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Customer support

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General description	
<p>Large fires need substantial equipment to extinguish them as fast as possible. When entire buildings such as warehouses or other large structures catch fire, a fire truck with an aerial command platform needs to be at the scene. A fire hose is mounted on the aerial platform, and an operator directs the hose so that it sprays onto the fire. Often, the view of the operator is obstructed by smoke so that it is impossible to see if the hose is directed onto the flames. But with a thermal imaging camera like the FLIR KF6, the operator is able to see through the smoke. The flames will appear white in the thermal image and the water spray black, so that the operator can see if they are effectively hitting the flames.</p>	
Benefits:	
<ul style="list-style-type: none"> • Crisp thermal images: The FLIR KF6 contains a maintenance-free, Vanadium oxide (VOx) detector that produces crisp thermal images. This allows for detailed thermal images in which even small details can be seen and small hot spots detected during overhaul operations. • FSX—Flexible Scene Enhancement: Details in the thermal image are enhanced through digital image processing inside the camera. The result is an ultra-sharp thermal image that shows more detail than a standard image. FSX makes it easier for firefighters to see through smoke and find hot spots—even in scenes with extreme temperature dynamics that are typical for a firefighting environment. • Rugged and reliable: The FLIR KF6 is designed to meet tough operating conditions. Its core is well protected by a rugged housing, meaning that the detector cannot be harmed by smoke or water. • Easy to install: The FLIR KF6 is easy to install on any aerial platform. Just connect it to 10.5–32 V DC and you will get composite video out. No communication or hand controls needed—it is fully automatic. 	

Imaging and optical data	
IR resolution	640 × 512 pixels
Thermal sensitivity/NETD	< 100 mK at f/1.4
Field of view (FOV)	69° × 56°
Focus	Fixed
F number	1.4
Image frequency	25 Hz

Detector data	
Detector type	Focal plane array, uncooled microbolometer
Spectral range	7.5–13.5 μm

Image presentation	
Image mode	TI Basic firefighting mode
Auto range	Yes

Measurement	
Object temperature range	<ul style="list-style-type: none"> • High-gain range: –25 to +135°C (–13 to +275°F) • Low-gain range: 0 to +550°C (+32 to +1022°F)
Accuracy	±10°C (±18°F) or ±10% in high gain range

Measurement analysis	
Spotmeter	1



FLIR KF6, PAL, Bottom Mounted, C

P/N: 70901-0801

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Measurement analysis	
Isotherm	Yes

Configuration	
Video standard	PAL
Mounting	Bottom mounted
Temperature unit	°C

Composite video	
Video out	Composite video output, PAL compatible

Power system	
Power input	10.5–32 V DC (ISO 7637-2)
Start-up time	< 25 seconds
Power consumption	< 5 W average, when supplied with 28 V DC

Connector	
Power and video connector	13-pin MIL-C-38999, D38999/24FB35PN Mating connector: D38999/26FB35SN

Environmental data	
Operating temperature range	–32 to +65°C (–26 to +149°F)
Storage temperature range	–40 to +70°C (–40 to +158°F)
Humidity (operating and storage)	IEC 600 68-2-30, 24 hours, 95% relative humidity, 25–40°C (77–104°F), two cycles
EMC	<ul style="list-style-type: none">• EN 61000-6-2:2005 (immunity)• EN 61000-6-3:2011 (emission)• FCC 47 CFR Part 15 B (emission)• ISO7637-2 Road Vehicles – Electrical Disturbances from conduction and coupling – Part 2: Electrical transient conduction along supply lines only. (Immunity)
Encapsulation	IP 67 (IEC 605 29)
Shock	IEC 600 68-2-27, 25g peak half sine wave
Vibration	IEC 600 68-2-6, 0.15 mm 10 Hz to 58 Hz and 2 g 58 to 500 Hz sinusoidal

Physical data	
Weight	1.2 ± 0.1 kg (2.6 ± 0.2 lb.)
Size (L × W × H)	158 mm × 112 mm × 89 mm (6.2 in. × 4.4 in. × 3.5 in.)
Housing material	Aluminum
Color	White and black

Shipping information	
List of contents	<ul style="list-style-type: none">• Infrared camera• Printed documentation
Packaging size	247 mm × 175 mm × 175 mm (9.7 in. × 6.9 in. × 6.9 in.)
EAN-13	7332558011386
UPC-12	845188012304



FLIR KF6, PAL, Bottom Mounted, C

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Shipping information	
Country of origin	Sweden

Supplies and accessories:

- T129748ACC; Power and video cable, 2 m

FLIR Kx series

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P/N: 73701-0101

Revision

41703

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Website

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<http://support.flir.com>



General description
The FLIR K2 is a robust and reliable infrared camera designed to perform under extremely severe conditions. The FLIR K2 has an intuitive interface with a design that makes it easy to control even with a gloved hand.
Benefits:
<ul style="list-style-type: none"> • Robust and reliable: The FLIR K2 is designed to meet tough operating conditions. It can withstand a drop from 2 m (6.5 ft.), is water resistant to IP67, and is fully operational up to 55°C (135°F), and operational up to +85°C (+185°F) for 15 minutes, +150°C (+302°F) for 10 minutes, and +260°C (+500°F) for 3 minutes. • Innovative: The FLIR K2 utilizes our patented technology MSX, where a thermal sensor is combined with a visual camera sensor to give detailed image information in many user situations. • Easy-to-use: Easily used in a gloved professional hand. An intuitive and simple user interface allows you to focus on the job. The FLIR K2 can be controlled by just one large button on top of the unit.
Typical applications:
<ul style="list-style-type: none"> • Heat detection. • Search and rescue. • Final extinction. • Back-up camera. • Scanning camera. • Fire attack.

Imaging and optical data	
IR resolution	160 × 120 pixels
Thermal sensitivity/NETD	< 100 mK @ +30°C (+86°F)
Field of view (FOV)	47° × 35°
Depth of field	0.1 m (0.33 ft.), infinity
Focal length	1.9 mm (0.075 in.)
Spatial resolution (IFOV)	6.22 mrad
F-number	1.1
Image frequency	9 Hz
Focus	Fixed

Detector data	
Detector type	Focal plane array, uncooled microbolometer
Spectral range	7.5–13 μm
Pitch	12 μm



FLIR K2

P/N: 73701-0101

Revision

41703

Last modified

2017-03-29 13:08 UTC+1

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Website

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Customer support

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Visual camera	
Built-in digital camera	640 × 480 pixels
Digital camera, FOV	73° × 61°, adapts to the IR lens
Sensitivity	Minimum 10 lux

Image presentation	
Display	3 in. LCD, 320 × 240 pixels, backlit
Auto range	Auto, non-selectable

Image presentation modes	
Image modes	<ul style="list-style-type: none">• Basic fire-fighting mode (default)• Black-and-white fire-fighting mode• Fire mode• Search-and-rescue mode• Heat detection mode• Cold detection mode• Building analysis mode <div style="border: 1px solid black; padding: 2px;">NOTE: The image mode can only be changed using FLIR Tools.</div>
Multi Spectral Dynamic Imaging (MSX)	Yes

Measurement	
Object temperature range	<ul style="list-style-type: none">• -20°C to +150°C (-4°F to +302°F)• 0°C to +500°C (+32°F to +932°F)
Accuracy	±4°C (±7.2°F) or ±4% for ambient temperatures of 10–35°C (50–95°F)

Measurement analysis	
Spotmeter	1
Automatic hot detection	Heat detection mode (the hottest 20% of the of scene is colorized)
Isotherm	Yes

USB	
USB	USB Micro-B

Compatibility	
Compatible with FLIR software	FLIR Tools

Data communication interfaces	
Interfaces	Update from PC devices

Power system	
Battery type	Li ion
Battery voltage	3.6 V
Battery capacity	2.6 Ah at 20–25°C (68–77°F)
Battery operating time	Approximately 4 hours at +25°C (+77°F) ambient temperature and typical use
Charging system	Battery is charged inside the camera or in a dedicated charger
Charging time	2.5 h to 90% capacity, charging status indicated by LEDs



FLIR K2

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Power system	
Charging temperature	0–45°C (32–113°F)
Power management	Automatic shutdown and sleep mode
Start-up time from sleep mode	10 seconds
Start-up time	30 seconds

Environmental data	
Operating temperature range	<ul style="list-style-type: none">–10°C to +55°C (+14°F to +131°F): infinity+85°C (+185°F): 15 minutes+150°C (+302°F): 10 minutes+260°C (+500°F): 3 minutes
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30, 24 hours, 95% relative humidity, 25–40°C (77–104°F), 2 cycles
Relative humidity	95% relative humidity, 25–40°C (77–104°F), non-condensing
EMC	<ul style="list-style-type: none">EN 61000-6-2:2005 (immunity)EN 61000-6-3:2011 (emission)FCC 47 CFR Part 15 B (emission)
Magnetic fields	EN 61 000-4-8, test level 5 for continuous field (severe industrial environment)
Encapsulation	IP 67 (IEC 60529)
Corrosion	ASTM B117, salt spray, 5% saline solution in 48 hours and +35°C
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Drop	2 m (6.6 ft.)
Safety (power supply)	CE/EN/UL/CSA/PSE 60950-1

Physical data	
Camera weight, incl. battery	0.7 kg (1.54 lb.)
Battery weight	0.119 kg (0.26 lb.)
Camera size (L × W × H)	250 mm × 105 mm × 90 mm (9.8 in. × 4.1 in. × 3.5 in.)
Tripod mounting	UNC ¼"-20
Material	<ul style="list-style-type: none">PPSUSilicon rubberAluminium, castFlame-resistant magnesium alloy

Shipping information	
List of contents	<ul style="list-style-type: none">Infrared cameraBattery (x2)Battery chargerLanyard strapPower supplyPrinted documentationUSB cable
Packaging, weight	<ul style="list-style-type: none">1-pack: 2.06 kg (4.5 lb.)5-pack: 11.2 kg (24.7 lb.)
Packaging, size	<ul style="list-style-type: none">1-pack: 323 × 325 × 110 mm (12.7 × 12.8 × 4.3 in.)5-pack: 578 × 336 × 351 mm (22.93 × 13.10 × 13.68 in.)
EAN-13	4743254002050



FLIR K2

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Website

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Customer support

<http://support.flir.com>

Shipping information	
UPC-12	845188011345
Country of origin	Estonia

Supplies & accessories:

- T198532; Car charger
- T198533; USB cable Std A <-> Micro B
- T127722ACC; Retractable lanyard
- T199127; Li-Ion Battery pack 3.6 V 2.6 Ah
- T199128; Battery charger, incl. power supply with multi plugs
- T199423ACC; Battery Li-ion 3.6 V, 2.6 Ah, 9.4 Wh
- T199414ACC; In-truck charger
- T199130; Lanyard strap
- T199357; Hard transport case

FLIR Kx3 series

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P/N: 72203-0411

Revision

41168

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2017-03-14 09:24 UTC+1

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Website

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Customer support

<http://support.flir.com>



General description	
The FLIR K33 is a robust and reliable infrared camera designed to perform under extremely severe conditions. The FLIR K33 has an intuitive interface with a design that makes it easy to control even with a gloved hand. The crisp and clear image helps you to navigate through smoke and to make quick and accurate decisions.	
Benefits:	
<ul style="list-style-type: none"> • Robust and reliable: The FLIR K33 is designed to meet tough operating conditions. It can withstand a drop from 2 m (6.5 ft.) onto a concrete floor, is water resistant to IP67, and is fully operational up to +85°C (+185°F), or +260°C (+500°F) for 5 min. • Clear and crisp thermal images: The maintenance-free uncooled microbolometer sensor produces clear and detail-rich images of 240 × 180 pixels which have been further improved with FSX, a digital image processing enhancement technique. Thermal images are presented on a large, bright 4" display, helping you to navigate and to make quick and accurate decisions. • Easy-to-use—also in a gloved firefighter's hand: An intuitive and simple user interface allows you to focus on the job. The FLIR K33 can be controlled by just one large button on top of the unit. Ideal for a gloved firefighter's hand. 	

Imaging and optical data	
IR resolution	240 × 180 pixels
Thermal sensitivity/NETD	< 40 mK @ +30°C (+86°F)
Field of view (FOV)	51° × 38°
Depth of field	0.84 m to infinity (33 in. to infinity)
Focal length	9 mm (0.35 in.)
Spatial resolution (IFOV)	3.6 mrad
F-number	1.25
Image frequency	60 Hz
Focus	Fixed

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
Pitch	25 μm

Image presentation	
Display	4 in. LCD, 320 × 240 pixels, backlit
Auto range	Yes, selectable on/off using FLIR Tools
Contrast optimization	Digital image enhancement using FSX

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Website

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Customer support

<http://support.flir.com>

Image presentation modes	
Image modes	TI Basic fire-fighting mode
Measurement	
Object temperature range	<ul style="list-style-type: none"> -20°C to +150°C (-4°F to +302°F) 0°C to +650°C (+32°F to +1202°F)
Accuracy	±4°C (±7.2°F) or ±4% of reading, for ambient temperature 10°C to 35°C (+50°F to 95°F)
Measurement analysis	
Spotmeter	1
Isotherm	Yes
Set-up	
Set-up commands	Local adaptation of units, date and time formats
Languages	English
Video streaming	
Non-radiometric IR video streaming	Uncompressed colorized video using USB
USB	
USB	USB Mini-B
Compatibility	
Compatible with FLIR software	FLIR Tools
Data communication interfaces	
Interfaces	<ul style="list-style-type: none"> Update from PC devices Data transfer to and from PC
Power system	
Battery type	Li Ion
Battery voltage	3.6 V
Battery capacity	4.4 Ah, at +20°C to +25°C (+68°F to +77°F)
Battery operating time	Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use
Charging system	<ul style="list-style-type: none"> Battery is charged inside the camera 2-bay charger Optional In-truck charger
Charging time	2 h to 85% capacity, charging status indicated by LEDs
Charging temperature	0°C to +45°C (+32°F to +113°F)
Power management	Automatic shutdown and sleep mode
Start-up time from sleep mode	< 4 s.
Start-up time	< 17 s. (IR image, no GUI)
Environmental data	
Operating temperature range	<ul style="list-style-type: none"> -20°C to +85°C (-4°F to +185°F) +150°C (+302°F): 15 min. +260°C (+500°F): 5 min.
Storage temperature range	-40°C to +85°C (-40°F to +185°F)

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Website

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Environmental data	
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
Relative humidity	95% relative humidity +25°C to +40°C (+77°F to +104°F) non-condensing
Directives	Designed to meet NFPA 1801:2013 specification: <ul style="list-style-type: none"> • Vibration • Impact acceleration resistance • Corrosion • Viewing surface abrasion • Heat resistance • Heat and flame • Product label durability
EMC	<ul style="list-style-type: none"> • EN 61000-6-2:2005 (Immunity) • EN 61000-6-3: 2011 (Emission) • FCC 47 CFR Part 15 B (Emission)
Magnetic fields	EN 61 000-4-8, Test level 5 for continuous field (severe industrial environment)
Encapsulation	IP 67 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Drop	2 m (6.6 ft.) on concrete floor (IEC 60068-2-31)
Safety (power supply)	CE/EN/UL/CSA/PSE 60950-1

Physical data	
Camera weight, incl. battery	1.1 ±0.05 kg (2.4 ±0.1 lb.)
Battery weight	0.152 kg (0.3 lb.)
Camera size (L × W × H)	120 × 125 × 280 mm (4.7 × 4.9 × 11 in.)
Tripod mounting	UNC ¼"-20 (adapter needed)
Material	<ul style="list-style-type: none"> • PPSU • Silicon rubber • Aluminium, cast • Flame-resistant magnesium alloy

Shipping information	
List of contents	<ul style="list-style-type: none"> • Infrared camera • Battery (2 ea.) • Battery charger • Hard transport case • Lanyard strap • Neck strap • Power supply • Printed documentation • Retractable lanyard • USB cable
Packaging, weight	5.7 kg (12.6 lb.)
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)
EAN-13	7332558011515
UPC-12	845188012465
Country of origin	Estonia

Supplies & accessories:

- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T198125; Battery charger, incl. power supply with multi plugs (Exx, Kxx)
- T198310ACC; Li-Ion Battery pack 3.6 V 16 Wh
- T127724ACC; Neck strap
- T127722ACC; Retractable lanyard
- T198416ACC; Lanyard strap



FLIR K33

P/N: 72203-0411

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Website

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Customer support

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- T198457ACC; Tripod Adapter, Kxx
- T198441ACC; Transport case Kxx
- T198322ACC; In-truck charger
- T199368ACC; Battery Li-ion 3.6 V, 4.4 Ah, 16 Wh
- T129915ACC; Carabiner strap

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Website

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Customer support

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General description	
The FLIR K53 is a robust and reliable infrared camera designed to perform under extremely severe conditions. The FLIR K53 has an intuitive interface with a design that makes it easy to control even with a gloved hand. The crisp and clear image helps you to navigate through smoke and to make quick and accurate decisions.	
Benefits:	
<ul style="list-style-type: none"> • Robust and reliable: The FLIR K53 is designed to meet tough operating conditions. It can withstand a drop from 2 m (6.5 ft.) onto a concrete floor, is water resistant to IP67, and is fully operational up to +85°C (+185°F), or +260°C (+500°F) for 5 min. • Clear and crisp thermal images: The maintenance-free uncooled microbolometer sensor produces clear and detail-rich images of 320 × 240 pixels which have been further improved with FSX, a digital image processing enhancement technique. Thermal images are presented on a large, bright 4" display, helping you to navigate and to make quick and accurate decisions. • Easy-to-use—also in a gloved firefighter's hand: An intuitive and simple user interface allows you to focus on the job. The FLIR K53 can be controlled by just one large button on top of the unit. Ideal for a gloved firefighter's hand. • Recording 	

Imaging and optical data	
IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 30 mK @ +30°C (+86°F)
Field of view (FOV)	51° × 38°
Depth of field	0.84 m to infinity (33 in. to infinity)
Focal length	9 mm (0.35 in.)
Spatial resolution (IFOV)	2.8 mrad
F-number	1.25
Image frequency	60 Hz
Focus	Fixed

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
Pitch	25 μm

Image presentation	
Display	4 in. LCD, 320 × 240 pixels, backlit
Auto range	Yes, selectable on/off using FLIR Tools



FLIR K53

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Website

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Customer support

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Image presentation	
Contrast optimization	Digital image enhancement using FSX
Image presentation modes	
Image modes	TI Basic fire-fighting mode
Measurement	
Object temperature range	<ul style="list-style-type: none">-20°C to +150°C (-4°F to +302°F)0°C to +650°C (+32°F to +1202°F)
Accuracy	±4°C (±7.2°F) or ±4% of reading, for ambient temperature 10°C to 35°C (+50°F to 95°F)
Measurement analysis	
Spotmeter	1
Isotherm	Yes
Set-up	
Set-up commands	Local adaptation of units, date and time formats
Languages	English
Storage of images	
Image storage	Standard JPEG
Storage media	Internal flash memory
Image storage capacity	200 files in total NOTE: The total number of files is co-dependent on the number of saved video clips.
Image storage mode	IR only
File formats	Standard JPEG
Image annotations	
Report generation	Separate software (FLIR Tools)
Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to internal flash memory
Storage capacity	200 files in total, with a maximum duration of 5 minutes each. NOTE: The total number of files is co-dependent on the number of saved images.
Video streaming	
Non-radiometric IR video streaming	Uncompressed colorized video using USB
USB	
USB	USB Mini-B
Compatibility	
Compatible with FLIR software	FLIR Tools



FLIR K53

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Website

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Customer support

<http://support.flir.com>

Data communication interfaces	
Interfaces	<ul style="list-style-type: none"> Update from PC devices Data transfer to and from PC

Power system	
Battery type	Li Ion
Battery voltage	3.6 V
Battery capacity	4.4 Ah, at +20°C to +25°C (+68°F to +77°F)
Battery operating time	Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use
Charging system	<ul style="list-style-type: none"> Battery is charged inside the camera 2-bay charger Optional In-truck charger
Charging time	2 h to 85% capacity, charging status indicated by LEDs
Charging temperature	0°C to +45°C (+32°F to +113°F)
Power management	Automatic shutdown and sleep mode
Start-up time from sleep mode	< 4 s.
Start-up time	< 17 s. (IR image, no GUI)

Environmental data	
Operating temperature range	<ul style="list-style-type: none"> -20°C to +85°C (-4°F to +185°F) +150°C (+302°F): 15 min. +260°C (+500°F): 5 min.
Storage temperature range	-40°C to +85°C (-40°F to +185°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
Relative humidity	95% relative humidity +25°C to +40°C (+77°F to +104°F) non-condensing
Directives	Designed to meet NFPA 1801:2013 specification: <ul style="list-style-type: none"> Vibration Impact acceleration resistance Corrosion Viewing surface abrasion Heat resistance Heat and flame Product label durability
EMC	<ul style="list-style-type: none"> EN 61000-6-2:2005 (Immunity) EN 61000-6-3: 2011 (Emission) FCC 47 CFR Part 15 B (Emission)
Magnetic fields	EN 61 000-4-8, Test level 5 for continuous field (severe industrial environment)
Encapsulation	IP 67 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Drop	2 m (6.6 ft.) on concrete floor (IEC 60068-2-31)
Safety (power supply)	CE/EN/UL/CSA/PSE 60950-1

Physical data	
Camera weight, incl. battery	1.1 ±0.05 kg (2.4 ±0.1 lb.)
Battery weight	0.152 kg (0.3 lb.)
Camera size (L × W × H)	120 × 125 × 280 mm (4.7 × 4.9 × 11 in.)



FLIR K53

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Physical data	
Tripod mounting	UNC ¼"-20 (adapter needed)
Material	<ul style="list-style-type: none">• PPSU• Silicon rubber• Aluminium, cast• Flame-resistant magnesium alloy

Shipping information	
List of contents	<ul style="list-style-type: none">• Infrared camera• Battery (2 ea.)• Battery charger• Hard transport case• Lanyard strap• Neck strap• Power supply• Printed documentation• Retractable lanyard• USB cable
Packaging, weight	5.7 kg (12.6 lb.)
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)
EAN-13	7332558011522
UPC-12	845188012472
Country of origin	Estonia

Supplies & accessories:

- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T198125; Battery charger, incl. power supply with multi plugs (Exx, Kxx)
- T198310ACC; Li-Ion Battery pack 3.6 V 16 Wh
- T127724ACC; Neck strap
- T127722ACC; Retractable lanyard
- T198416ACC; Lanyard strap
- T198457ACC; Tripod Adapter, Kxx
- T198441ACC; Transport case Kxx
- T198322ACC; In-truck charger
- T199368ACC; Battery Li-ion 3.6 V, 4.4 Ah, 16 Wh
- T129915ACC; Carabiner strap

FLIR Kx5 series

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P/N: 72201-0106

Revision

44706

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<http://support.flir.com>



General description	
The FLIR K45 is a robust and reliable infrared camera designed to perform under extremely severe conditions. The FLIR K45 has an intuitive interface with a design that makes it easy to control even with a gloved hand. The crisp and clear image helps you to navigate through smoke and to make quick and accurate decisions.	
Benefits:	
<ul style="list-style-type: none"> • Robust and reliable: The FLIR K45 is designed to meet tough operating conditions. It can withstand a drop from 2 m (6.5 ft.) onto a concrete floor, is water resistant to IP67, and is fully operational up to +85°C (+185°F), or +260°C (+500°F) for 5 min. • Clear and crisp thermal images: The maintenance-free uncooled microbolometer sensor produces clear and detail-rich images of 240 × 180 pixels which have been further improved with FSX, a digital image processing enhancement technique. Thermal images are presented on a large, bright 4" display, helping you to navigate and to make quick and accurate decisions. • Easy-to-use—also in a gloved firefighter's hand: An intuitive and simple user interface allows you to focus on the job. The FLIR K series can be controlled by just three large buttons on top of the unit. Ideal for a gloved firefighter's hand. 	

Imaging and optical data	
IR resolution	240 × 180 pixels
Thermal sensitivity/NETD	< 40 mK @ +30°C (+86°F)
Field of view (FOV)	51° × 38°
Depth of field	0.84 m to infinity (33 in. to infinity)
Focal length	9 mm (0.35 in.)
Spatial resolution (IFOV)	3.6 mrad
F-number	1.25
Image frequency	60 Hz
Focus	Fixed
Zoom	2× digital zoom

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
Pitch	25 μm

Image presentation	
Display	4 in. LCD, 320 × 240 pixels, backlit
Auto range	Yes, selectable on/off using FLIR Tools

P/N: 72201-0106

Revision

44706

Last modified

2017-09-06 09:18 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Image presentation	
Contrast optimization	Digital image enhancement using FSX
Image presentation modes	
Image modes	<ul style="list-style-type: none"> IR image TI Basic fire-fighting mode Black-and-white fire-fighting mode Fire mode Search-and-rescue mode Heat detection mode Thumbnail gallery
Measurement	
Object temperature range	<ul style="list-style-type: none"> -20°C to +150°C (-4°F to +302°F) 0°C to +650°C (+32°F to +1202°F)
Accuracy	±4°C (±7.2°F) or ±4% of reading, for ambient temperature 10°C to 35°C (+50°F to 95°F)
Measurement analysis	
Spotmeter	1
Automatic hot detection	Heat detection mode (the hottest 20% of the of scene is colorized)
Isotherm	Yes
Set-up	
Set-up commands	Local adaptation of units, date and time formats
Languages	English
Storage of images	
Image storage	Standard JPEG
Storage media	Internal flash memory
Image storage capacity	200 images
Image storage mode	IR only
File formats	Standard JPEG
Image annotations	
Report generation	Separate software (FLIR Tools)
Video streaming	
Non-radiometric IR video streaming	Uncompressed colorized video using USB
USB	
USB	USB Mini-B
Compatibility	
Compatible with FLIR software	FLIR Tools
Data communication interfaces	
Interfaces	<ul style="list-style-type: none"> Update from PC devices Data transfer to and from PC



FLIR K45

P/N: 72201-0106

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Power system	
Battery type	Li Ion
Battery voltage	3.6 V
Battery capacity	4.4 Ah, at +20°C to +25°C (+68°F to +77°F)
Battery operating time	Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use
Charging system	<ul style="list-style-type: none">Battery is charged inside the camera2-bay chargerOptional In-truck charger
Charging time	2 h to 85% capacity, charging status indicated by LEDs
Charging temperature	0°C to +45°C (+32°F to +113°F)
Power management	Automatic shutdown and sleep mode
Start-up time from sleep mode	< 4 s.
Start-up time	< 17 s. (IR image, no GUI)

Environmental data	
Operating temperature range	<ul style="list-style-type: none">-20°C to +85°C (-4°F to +185°F)+150°C (+302°F): 15 min.+260°C (+500°F): 5 min.
Storage temperature range	-40°C to +85°C (-40°F to +185°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
Relative humidity	95% relative humidity +25°C to +40°C (+77°F to +104°F) non-condensing
Directives	Designed to meet NFPA 1801:2013 specification: <ul style="list-style-type: none">VibrationImpact acceleration resistanceCorrosionViewing surface abrasionHeat resistanceHeat and flameProduct label durability
EMC	<ul style="list-style-type: none">EN 61000-6-2:2005 (Immunity)EN 61000-6-3: 2011 (Emission)FCC 47 CFR Part 15 B (Emission)
Magnetic fields	EN 61 000-4-8, Test level 5 for continuous field (severe industrial environment)
Encapsulation	IP 67 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Drop	2 m (6.6 ft.) on concrete floor (IEC 60068-2-31)
Safety (power supply)	CE/EN/UL/CSA/PSE 60950-1

Physical data	
Camera weight, incl. battery	1.1 ±0.05 kg (2.4 ±0.1 lb.)
Battery weight	0.152 kg (0.3 lb.)
Camera size (L × W × H)	120 × 125 × 280 mm (4.7 × 4.9 × 11 in.)
Tripod mounting	UNC ¼"-20 (adapter needed)
Material	<ul style="list-style-type: none">PPSUSilicon rubberAluminium, castFlame-resistant magnesium alloy



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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Shipping information	
List of contents	<ul style="list-style-type: none">• Infrared camera• Battery (2 ea.)• Battery charger• Hard transport case• Lanyard strap• Neck strap• Power supply• Printed documentation• Retractable lanyard• USB cable
Packaging, weight	5.7 kg (12.6 lb.)
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)
EAN-13	4743254002005
UPC-12	845188010898
Country of origin	Estonia

Supplies and accessories:

- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T198125; Battery charger, incl. power supply with multi plugs (Exx, Kxx)
- T198310ACC; Li-Ion Battery pack 3.6 V 16 Wh
- T127724ACC; Neck strap
- T127722ACC; Retractable lanyard
- T198416ACC; Lanyard strap
- T198457ACC; Tripod Adapter, Kxx
- T198441ACC; Transport case Kxx
- T198322ACC; In-truck charger
- T199368ACC; Battery Li-ion 3.6 V, 4.4 Ah, 16 Wh
- T129915ACC; Carabiner strap

P/N: 72201-0206

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
<p>The FLIR K55 is a robust and reliable infrared camera designed to perform under extremely severe conditions. The FLIR K55 has an intuitive interface with a design that makes it easy to control even with a gloved hand. The crisp and clear image helps you to navigate through smoke and to make quick and accurate decisions.</p>	
Benefits:	
<ul style="list-style-type: none"> • Robust and reliable: The FLIR K455 is designed to meet tough operating conditions. It can withstand a drop from 2 m (6.5 ft.) onto a concrete floor, is water resistant to IP67, and is fully operational up to +85°C (+185°F), or +260°C (+500°F) for 5 min. • Clear and crisp thermal images: The maintenance-free uncooled microbolometer sensor produces clear and detail-rich images of 320 × 240 pixels which have been further improved with FSX, a digital image processing enhancement technique. Thermal images are presented on a large, bright 4" display, helping you to navigate and to make quick and accurate decisions. • Easy-to-use—also in a gloved firefighter's hand: An intuitive and simple user interface allows you to focus on the job. The FLIR K series can be controlled by just three large buttons on top of the unit. Ideal for a gloved firefighter's hand. • Recording 	
Imaging and optical data	
IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 30 mK @ +30°C (+86°F)
Field of view (FOV)	51° × 38°
Depth of field	0.84 m to infinity (33 in. to infinity)
Focal length	9 mm (0.35 in.)
Spatial resolution (IFOV)	2.8 mrad
F-number	1.25
Image frequency	60 Hz
Focus	Fixed
Zoom	2× digital zoom
Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
Pitch	25 μm
Image presentation	
Display	4 in. LCD, 320 × 240 pixels, backlit



FLIR K55

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Website

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Customer support

<http://support.flir.com>

Image presentation	
Auto range	Yes, selectable on/off using FLIR Tools
Contrast optimization	Digital image enhancement using FSX

Image presentation modes	
Image modes	<ul style="list-style-type: none"> IR image TI Basic fire-fighting mode Black-and-white fire-fighting mode Fire mode Search-and-rescue mode Heat detection mode Thumbnail gallery

Measurement	
Object temperature range	<ul style="list-style-type: none"> -20°C to +150°C (-4°F to +302°F) 0°C to +650°C (+32°F to +1202°F)
Accuracy	±4°C (±7.2°F) or ±4% of reading, for ambient temperature 10°C to 35°C (+50°F to 95°F)

Measurement analysis	
Spotmeter	1
Automatic hot detection	Heat detection mode (the hottest 20% of the of scene is colorized)
Isotherm	Yes

Set-up	
Set-up commands	Local adaptation of units, date and time formats
Languages	English

Storage of images	
Image storage	Standard JPEG
Storage media	Internal flash memory
Image storage capacity	200 files in total NOTE: The total number of files is co-dependent on the number of saved video clips.
Image storage mode	IR only
File formats	Standard JPEG

Image annotations	
Report generation	Separate software (FLIR Tools)

Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to internal flash memory
Storage capacity	200 files in total, with a maximum duration of 5 minutes each. NOTE: The total number of files is co-dependent on the number of saved images.

Video streaming	
Non-radiometric IR video streaming	Uncompressed colorized video using USB

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Customer support

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USB	
USB	USB Mini-B

Compatibility	
Compatible with FLIR software	FLIR Tools

Data communication interfaces	
Interfaces	<ul style="list-style-type: none"> Update from PC devices Data transfer to and from PC

Power system	
Battery type	Li Ion
Battery voltage	3.6 V
Battery capacity	4.4 Ah, at +20°C to +25°C (+68°F to +77°F)
Battery operating time	Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use
Charging system	<ul style="list-style-type: none"> Battery is charged inside the camera 2-bay charger Optional In-truck charger
Charging time	2 h to 85% capacity, charging status indicated by LEDs
Charging temperature	0°C to +45°C (+32°F to +113°F)
Power management	Automatic shutdown and sleep mode
Start-up time from sleep mode	< 4 s.
Start-up time	< 17 s. (IR image, no GUI)

Environmental data	
Operating temperature range	<ul style="list-style-type: none"> -20°C to +85°C (-4°F to +185°F) +150°C (+302°F): 15 min. +260°C (+500°F): 5 min.
Storage temperature range	-40°C to +85°C (-40°F to +185°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
Relative humidity	95% relative humidity +25°C to +40°C (+77°F to +104°F) non-condensing
Directives	Designed to meet NFPA 1801:2013 specification: <ul style="list-style-type: none"> Vibration Impact acceleration resistance Corrosion Viewing surface abrasion Heat resistance Heat and flame Product label durability
EMC	<ul style="list-style-type: none"> EN 61000-6-2:2005 (Immunity) EN 61000-6-3: 2011 (Emission) FCC 47 CFR Part 15 B (Emission)
Magnetic fields	EN 61 000-4-8, Test level 5 for continuous field (severe industrial environment)
Encapsulation	IP 67 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Drop	2 m (6.6 ft.) on concrete floor (IEC 60068-2-31)
Safety (power supply)	CE/EN/UL/CSA/PSE 60950-1



FLIR K55

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Physical data	
Camera weight, incl. battery	1.1 ±0.05 kg (2.4 ±0.1 lb.)
Battery weight	0.152 kg (0.3 lb.)
Camera size (L × W × H)	120 × 125 × 280 mm (4.7 × 4.9 × 11 in.)
Tripod mounting	UNC ¼"-20 (adapter needed)
Material	<ul style="list-style-type: none">• PPSU• Silicon rubber• Aluminium, cast• Flame-resistant magnesium alloy

Shipping information	
List of contents	<ul style="list-style-type: none">• Infrared camera• Battery (2 ea.)• Battery charger• Hard transport case• Lanyard strap• Neck strap• Power supply• Printed documentation• Retractable lanyard• USB cable
Packaging, weight	5.7 kg (12.6 lb.)
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)
EAN-13	4743254002012
UPC-12	845188010904
Country of origin	Estonia

Supplies & accessories:

- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T198125; Battery charger, incl. power supply with multi plugs (Exx, Kxx)
- T198310ACC; Li-Ion Battery pack 3.6 V 16 Wh
- T127724ACC; Neck strap
- T127722ACC; Retractable lanyard
- T198416ACC; Lanyard strap
- T198457ACC; Tripod Adapter, Kxx
- T198441ACC; Transport case Kxx
- T198322ACC; In-truck charger
- T199368ACC; Battery Li-ion 3.6 V, 4.4 Ah, 16 Wh
- T129915ACC; Carabiner strap

P/N: 72202-0303

Revision

46856

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2017-12-12 09:30 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description
The FLIR K65 is a robust and reliable infrared camera designed to perform under extremely severe conditions. The FLIR K65 has an intuitive interface with a design that makes it easy to control even with a gloved hand. The crisp and clear image helps you to navigate through smoke and to make quick and accurate decisions.
Benefits:
<ul style="list-style-type: none"> • Compliance with NFPA 1801-2013. • Robust and reliable: The FLIR K65 is designed to meet tough operating conditions. It can withstand a drop from 2 m (6.5 ft.) onto a concrete floor, is water resistant to IP67, and is fully operational up to 85°C (185°F), and operational up to +150°C (+302°F) for 15 minutes, and +260°C (+500°F) for 5 minutes. • Clear and crisp thermal images: The maintenance-free uncooled microbolometer sensor produces clear and detail-rich images of 320 × 240 pixels which have been further improved with FSX, a digital image-processing enhancement technique. Thermal images are presented on a large, bright 4" display, helping you to navigate and to make quick and accurate decisions. • Easy-to-use—also in a gloved firefighter's hand: An intuitive and simple user interface allows you to focus on the job. The FLIR K series can be controlled by just three large buttons on top of the unit. Ideal for a gloved firefighter's hand. • Recording.

Imaging and optical data	
IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 30 mK @ +30°C (+86°F)
Field of view (FOV)	51° × 38°
Depth of field	0.84 m to infinity (33 in. to infinity)
Focal length	9 mm (0.35 in.)
Spatial resolution (IFOV)	2.8 mrad
F-number	1.25
Image frequency	60 Hz
Focus	Fixed
Zoom	2× digital zoom

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer (VOx)
Spectral range	8–14 μm
Pitch	25 μm

P/N: 72202-0303

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Image presentation	
Display	4 in. LCD, 320 × 240 pixels, backlit
Auto range	Yes, selectable on/off using FLIR Tools
Contrast optimization	Digital image enhancement using FSX

Image presentation modes	
Image modes	<ul style="list-style-type: none"> IR image TI Basic NFPA fire-fighting mode Black-and-white fire-fighting mode Fire mode Search-and-rescue mode Heat detection mode Thumbnail gallery

Measurement	
Object temperature range	<ul style="list-style-type: none"> -20°C to +150°C (-4°F to +302°F) 0°C to +650°C (+32°F to +1202°F)
Accuracy	±4°C (±7.2°F) or ±4% of reading, for ambient temperature 10°C to 35°C (+50°F to 95°F)

Measurement analysis	
Spotmeter	1
Automatic hot detection	Heat detection mode (the hottest 20% of the of scene is colorized)
Isotherm	Yes, according to NFPA

Set-up	
Set-up commands	Local adaptation of units, date and time formats
Languages	English

Storage of images	
Image storage	Standard JPEG
Storage media	Internal flash memory
Image storage capacity	200 files in total NOTE: The number of files is co-dependent on the number of saved video clips.
Image storage mode	IR only
File formats	Standard JPEG

Image annotations	
Report generation	Separate software (FLIR Tools)

Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to internal flash memory
Storage capacity	200 files in total, with a maximum duration of 5 minutes each. NOTE: The total number of files is co-dependent on the number of saved images.

Video streaming	
Non-radiometric IR video streaming	Uncompressed colorized video using USB



FLIR K65

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Website

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Customer support

<http://support.flir.com>

USB	
USB	USB Mini-B

Compatibility	
Compatible with FLIR software	FLIR Tools

Data communication interfaces	
Interfaces	<ul style="list-style-type: none"> Update from PC devices Data transfer to and from PC

Power system	
Battery type	Li Ion
Battery voltage	3.6 V
Battery capacity	4.4 Ah, at +20°C to +25°C (+68°F to +77°F)
Battery operating time	Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use <div style="border: 1px solid black; padding: 2px; margin-top: 5px;"> NOTE: This operating time is independent of camera mode. </div>
Charging system	<ul style="list-style-type: none"> Battery is charged inside the camera 2-bay charger Optional In-truck charger
Charging time	2 h to 85% capacity, charging status indicated by LEDs
Charging temperature	0°C to +45°C (+32°F to +113°F)
Power management	Automatic shutdown and sleep mode
Start-up time from sleep mode	< 4 s.
Start-up time	< 17 s. (IR image, no GUI)

Environmental data	
Operating temperature range	<ul style="list-style-type: none"> -20°C to +85°C (-4°F to +185°F) +150°C (+302°F): 15 min. +260°C (+500°F): 5 min.
Storage temperature range	-40°C to +85°C (-40°F to +185°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
Relative humidity	95% relative humidity +25°C to +40°C (+77°F to +104°F) non-condensing
Directives	Certified according to NFPA1801:2013 specification: <ul style="list-style-type: none"> Vibration Impact acceleration resistance Corrosion Viewing surface abrasion Heat resistance Heat and flame Product label durability
EMC	<ul style="list-style-type: none"> EN 61000-6-2:2005 (Immunity) EN 61000-6-3: 2011 (Emission) FCC 47 CFR Part 15 B (Emission)
Magnetic fields	EN 61 000-4-8, Test level 5 for continuous field (severe industrial environment)
Encapsulation	IP 67 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)



FLIR K65

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Environmental data	
Drop	2 m (6.6 ft.) on concrete floor (IEC 60068-2-31)
Safety (power supply)	CE/EN/UL/CSA/PSE 60950-1

Certifications	
Compliance	NFPA1801:2013 Ex-certified according to ANSI/ISA 12.12.01-2013 and meets Class I Division 2 Gas Groups C and D T4.

Physical data	
Camera weight, incl. battery	1.1 ±0.05 kg (2.4 ±0.1 lb.)
Battery weight	0.152 kg (0.3 lb.)
Camera size (L × W × H)	120 × 125 × 280 mm (4.7 × 4.9 × 11 in.)
Tripod mounting	UNC ¼"-20 (adapter needed)
Material	<ul style="list-style-type: none">• PPSU• Silicon rubber• Aluminium, cast• Flame-resistant magnesium alloy

Shipping information	
List of contents	<ul style="list-style-type: none">• Infrared camera• Battery (2 ea.)• Battery charger• Hard transport case• Power supply• Printed documentation• Torx screwdriver (T20)• USB cable
Packaging, weight	5.7 kg (12.6 lb.)
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)
EAN-13	4743254001992
UPC-12	845188010881
Country of origin	Estonia

Supplies & accessories:

- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T198125; Battery charger, incl. power supply with multi plugs (Exx, Kxx)
- T198310ACC; Li-Ion Battery pack 3.6 V 16 Wh
- T127724ACC; Neck strap
- T127722ACC; Retractable lanyard
- T198416ACC; Lanyard strap
- T198457ACC; Tripod Adapter, Kxx
- T198441ACC; Transport case Kxx
- T911309ACC; Screwdriver TX20
- T198322ACC; In-truck charger
- T199398; FLIR K65 accessory kit
- T199368ACC; Battery Li-ion 3.6 V, 4.4 Ah, 16 Wh
- T129915ACC; Carabiner strap

FLIR RS6xxx series

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P/N: 29356-213

Revision

44535

Last modified

2017-08-29 13:47 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Detector data	
Detector Type	FLIR Indium Antimonide (InSb)
Spectral Range	3.0 – 5.0 μm
Resolution	640 x 512
Detector Pitch	25 μm
Thermal Sensitivity/NETD	< 20 mK
Well Capacity	11 M electrons
Operability	> 99.8% (> 99.95% typical)
Sensor Cooling	Closed-cycle rotary

Electronics	
Readout Type	Snapshot
Readout Modes	Asynchronous integrate while read, Asynchronous integrate then read
Synchronization Modes	Sync In, Sync Out
Image Time Stamp	Internal IRIG-B timestamp clock, TSPI accurate
Integration Time	480 ns to Full Frame
Pixel Clock	200 MHz
Frame Rate (Full Window)	Programmable; 0.0015 Hz to 565 Hz at full window
Subwindow Mode	Flexible windowing down to 16 x 4 (steps of 16 columns, 4 rows)
Dynamic Range	14-bit
On-Camera Image Storage	None
Radiometric Data Streaming	Gigabit Ethernet (GigE Vision), CXP Dual Link
Standard Video	HD-SDI
Command and Control	Gigabit Ethernet, not Genicam compliant

Optics	
Camera f/Number	f/5
Lens	120-1200 mm Zoom
Focus	Motorized FOV/Focus

Image/Video Presentation	
Palettes	Selectable 8-bit
Automatic Gain Control	Manual, Linear, Plateau equalization, ROI, DDE
Overlay	Customizable (Date, Integration time, Internal temp, Frame rate, Sync mode, Cooler hours)
Video Modes	HD-SDI
Digital Zoom	1x, 2x, 4x



FLIR RS6813

P/N: 29356-213

Revision

44535

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General	
Operating Temperature Range	-20°C to 50°C
Shock/Vibration	40 g, 11 msec ½ sine pulse/4.3 g RMS random vibration, all 3 axes
Power	24 VDC (< 24 W steady state)
Weight	40 kg. (88 lbs.)
Size (L x W x H)	914 mm x 305 mm x 287 mm (36 in. length x 12 in. x 11.3 in.)
Mounting	9 x 3/8"-16 tapped holes

Supplies & accessories:

P/N: 26052-210

Revision

44515

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Website

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Customer support

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Detector data	
Detector Type	FLIR Indium Antimonide (InSb)
Spectral Range	3.0 – 5.0 μm
Resolution	640 x 512
Detector Pitch	15 μm
Thermal Sensitivity/NETD	< 25 mK
Well Capacity	7.2 M electrons
Operability	> 99.8% (> 99.95% typical)
Sensor Cooling	Closed-cycle rotary

Electronics	
Readout Type	Snapshot
Readout Modes	Asynchronous integrate while read, Asynchronous integrate then read
Synchronization Modes	Sync In, Sync Out
Image Time Stamp	Internal IRIG-B timestamp clock, TSPI accurate
Integration Time	480 ns to Full Frame
Pixel Clock	50 MHz
Frame Rate (Full Window)	Programmable; 0.0015 Hz to 125 Hz at full window
Subwindow Mode	Flexible windowing down to 16 x 4 (steps of 16 columns, 4 rows)
Dynamic Range	14-bit
On-Camera Image Storage	None
Radiometric Data Streaming	Gigabit Ethernet (GigE Vision), Camera Link Base Fiber
Standard Video	NTSC or PAL composite
Command and Control	Gigabit Ethernet, not Genicam compliant

Optics	
Camera f/Number	f/4
Lens	50/250 mm
Focus	Motorized FOV/Focus

Image/Video Presentation	
Palettes	Selectable 8-bit
Automatic Gain Control	Manual, Linear, Plateau equalization, ROI, DDE
Overlay	Customizable (Date, Integration time, Internal temp, Frame rate, Sync mode, Cooler hours)



FLIR RS6700

P/N: 26052-210

Revision

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Image/Video Presentation	
Video Modes	NTSC, PAL
Digital Zoom	1x, 2x, 4x

General	
Operating Temperature Range	-20°C to 50°C (-4 to 122°F)
Shock/Vibration	40 g, 11 msec ½ sine pulse/4.3 g RMS random vibration, all 3 axes
Power	24 VDC (< 41 W steady state, 112 W with heaters on)
Weight	11.4 kg (25 lbs)
Size (L x W x H)	560 mm length x 230 mm Diameter (22 in. length x 9 in. Diameter)
Mounting	5 x ¼" -20 tapped holes

Supplies & accessories:

P/N: 26052-211

Revision

44516

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Website

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Detector data	
Detector Type	FLIR Indium Antimonide (InSb)
Spectral Range	3.0 – 5.0 μm
Resolution	640 x 512
Detector Pitch	15 μm
Thermal Sensitivity/NETD	< 25 mK
Well Capacity	7.2 M electrons
Operability	> 99.8% (> 99.95% typical)
Sensor Cooling	Closed-cycle rotary

Electronics	
Readout Type	Snapshot
Readout Modes	Asynchronous integrate while read, Asynchronous integrate then read
Synchronization Modes	Sync In, Sync Out
Image Time Stamp	Internal IRIG-B timestamp clock, TSPI accurate
Integration Time	480 ns to Full Frame
Pixel Clock	50 MHz
Frame Rate (Full Window)	Programmable; 0.0015 Hz to 125 Hz at full window
Subwindow Mode	Flexible windowing down to 16 x 4 (steps of 16 columns, 4 rows)
Dynamic Range	14-bit
On-Camera Image Storage	None
Radiometric Data Streaming	Gigabit Ethernet (GigE Vision), Camera Link Base Fiber
Standard Video	NTSC or PAL composite
Command and Control	Gigabit Ethernet, not Genicam compliant

Optics	
Camera f/Number	f/4
Lens	100/500 mm
Focus	Motorized FOV/Focus

Image/Video Presentation	
Palettes	Selectable 8-bit
Automatic Gain Control	Manual, Linear, Plateau equalization, ROI, DDE
Overlay	Customizable (Date, Integration time, Internal temp, Frame rate, Sync mode, Cooler hours)



FLIR RS6701

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Image/Video Presentation	
Video Modes	NTSC, PAL
Digital Zoom	1x, 2x, 4x

General	
Operating Temperature Range	-20°C to 50°C (-4 to 122°F)
Shock/Vibration	40 g, 11 msec ½ sine pulse/4.3 g RMS random vibration, all 3 axes
Power	24 VDC (< 41 W steady state, 112 W with heaters on)
Weight	11.6 kg (25.5 lbs)
Size (L x W x H)	560 mm length x 230 mm Diameter (22 in. length x 9 in. Diameter)
Mounting	5 x ¼" -20 tapped holes

Supplies & accessories:

P/N: 26052-212

Revision

44517

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Detector data	
Detector Type	FLIR Indium Antimonide (InSb)
Spectral Range	3.0 – 5.0 μm
Resolution	640 x 512
Detector Pitch	15 μm
Thermal Sensitivity/NETD	< 25 mK
Well Capacity	7.2 M electrons
Operability	> 99.8% (> 99.95% typical)
Sensor Cooling	Closed-cycle rotary

Electronics	
Readout Type	Snapshot
Readout Modes	Asynchronous integrate while read, Asynchronous integrate then read
Synchronization Modes	Sync In, Sync Out
Image Time Stamp	Internal IRIG-B timestamp clock, TSPI accurate
Integration Time	480 ns to Full Frame
Pixel Clock	50 MHz
Frame Rate (Full Window)	Programmable; 0.0015 Hz to 125 Hz at full window
Subwindow Mode	Flexible windowing down to 16 x 4 (steps of 16 columns, 4 rows)
Dynamic Range	14-bit
On-Camera Image Storage	None
Radiometric Data Streaming	Gigabit Ethernet (GigE Vision), Camera Link Base Fiber
Standard Video	NTSC or PAL composite
Command and Control	Gigabit Ethernet, not Genicam compliant

Optics	
Camera f/Number	f/4
Lens	150/750 mm
Focus	Motorized FOV/Focus

Image/Video Presentation	
Palettes	Selectable 8-bit
Automatic Gain Control	Manual, Linear, Plateau equalization, ROI, DDE
Overlay	Customizable (Date, Integration time, Internal temp, Frame rate, Sync mode, Cooler hours)



FLIR RS6702

P/N: 26052-212

Revision

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Image/Video Presentation	
Video Modes	NTSC, PAL
Digital Zoom	1x, 2x, 4x

General	
Operating Temperature Range	-20°C to 50°C (-4 to 122°F)
Shock/Vibration	40 g, 11 msec ½ sine pulse/4.3 g RMS random vibration, all 3 axes
Power	24 VDC (< 41 W steady state, 112 W with heaters on)
Weight	14.1 kg (31 lbs)
Size (L x W x H)	610 mm length x 230 mm Diameter (24 in. length x 9 in. Diameter)
Mounting	5 x ¼" -20 tapped holes

Supplies & accessories:

FLIR RS8xxx series

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P/N: 29257-213

Revision

44522

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Website

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Detector data	
Detector Type	FLIR Indium Antimonide (InSb)
Spectral Range	3.0 – 5.0 μm
Resolution	1344 x 784
Detector Pitch	14 μm
Thermal Sensitivity/NETD	< 20 mK
Well Capacity	5.9 M electrons
Operability	> 99.8% (> 99.95% typical)
Sensor Cooling	Closed-cycle linear Stirling cooler

Electronics	
Readout Type	Snapshot
Readout Modes	Asynchronous integrate while read, Asynchronous integrate then read
Synchronization Modes	Sync In, Sync Out
Image Time Stamp	Internal IRIG-B timestamp clock, TSPI accurate
Integration Time	480 ns to Full Frame
Pixel Clock	200 MHz
Frame Rate (Full Window)	Programmable; 0.0015 Hz to 124 Hz at full window
Subwindow Mode	Flexible windowing down to 64 x 4 (steps of 64 columns, 4 rows)
Dynamic Range	14-bit
On-Camera Image Storage	None
Radiometric Data Streaming	Gigabit Ethernet (GigE Vision), CXP Single Link
Standard Video	HD-SDI
Command and Control	Gigabit Ethernet, not Genicam compliant

Optics	
Camera f/Number	f/5
Lens	120-1200 mm Zoom
Focus	Motorized FOV/Focus

Image/Video Presentation	
Palettes	Selectable 8-bit
Automatic Gain Control	Manual, Linear, Plateau equalization, ROI, DDE
Overlay	Customizable (Date, Integration time, Internal temp, Frame rate, Sync mode, Cooler hours)
Video Modes	HD-SDI



FLIR RS8313

P/N: 29257-213

Revision

44522

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Image/Video Presentation	
Digital Zoom	1x, 2x, 4x

General	
Operating Temperature Range	-20°C to 50°C (-4 to 122°F)
Shock/Vibration	40 g, 11 msec ½ sine pulse/4.3 g RMS random vibration, all 3 axes
Power	24 VDC (< 24 W steady state)
Weight	40 kg. (88 lbs.)
Size (L x W x H)	914 mm x 305 mm x 287 mm (36 in. length x 12 in. x 11.3 in.)
Mounting	9 x 3/8"-16 tapped holes

Supplies & accessories:

P/N: 29257-203

Revision

44521

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Website

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Detector data	
Detector Type	FLIR Indium Antimonide (InSb)
Spectral Range	3.0 – 5.0 μm
Resolution	1344 x 784
Detector Pitch	14 μm
Thermal Sensitivity/NETD	< 20 mK
Well Capacity	5.9 M electrons
Operability	> 99.8% (> 99.95% typical)
Sensor Cooling	Closed-cycle linear Stirling cooler

Electronics	
Readout Type	Snapshot
Readout Modes	Asynchronous integrate while read, Asynchronous integrate then read
Synchronization Modes	Sync In, Sync Out
Image Time Stamp	Internal IRIG-B timestamp clock, TSPI accurate
Integration Time	480 ns to Full Frame
Pixel Clock	200 MHz
Frame Rate (Full Window)	Programmable; 0.0015 Hz to 124 Hz at full window
Subwindow Mode	Flexible windowing down to 64 x 4 (steps of 64 columns, 4 rows)
Dynamic Range	14-bit
On-Camera Image Storage	None
Radiometric Data Streaming	Gigabit Ethernet (GigE Vision), Camera Link Full
Standard Video	HD-SDI
Command and Control	Gigabit Ethernet, not Genicam compliant

Optics	
Camera f/Number	f/5
Lens	120-1200 mm Zoom
Focus	Motorized FOV/Focus

Image/Video Presentation	
Palettes	Selectable 8-bit
Automatic Gain Control	Manual, Linear, Plateau equalization, ROI, DDE
Overlay	Customizable (Date, Integration time, Internal temp, Frame rate, Sync mode, Cooler hours)
Video Modes	HD-SDI



FLIR RS8303

P/N: 29257-203

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Image/Video Presentation	
Digital Zoom	1x, 2x, 4x

General	
Operating Temperature Range	-20°C to 50°C (-4 to 122°F)
Shock/Vibration	40 g, 11 msec ½ sine pulse/4.3 g RMS random vibration, all 3 axes
Power	24 VDC (< 24 W steady state)
Weight	40 kg. (88 lbs.)
Size (L x W x H)	914 mm x 305 mm x 287 mm (36 in. length x 12 in. x 11.3 in.)
Mounting	9 x 3/8"-16 tapped holes

Supplies & accessories:

P/N: 29366-203

Revision

44546

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Detector data	
Detector Type	FLIR Indium Antimonide (InSb)
Spectral Range	3.0 – 5.0 μm
Resolution	1024 x 1024
Detector Pitch	18 μm
Thermal Sensitivity/NETD	< 20 mK
Well Capacity	12.1 M electrons
Operability	> 99.8% (> 99.95% typical)
Sensor Cooling	Closed-cycle linear Stirling cooler

Electronics	
Readout Type	Snapshot
Readout Modes	Asynchronous integrate while read, Asynchronous integrate then read
Synchronization Modes	Sync In, Sync Out
Image Time Stamp	Internal IRIG-B timestamp clock, TSPI accurate
Integration Time	480 ns to Full Frame
Pixel Clock	200 MHz
Frame Rate (Full Window)	Programmable; 0.0015 Hz to 124 Hz at full window
Subwindow Mode	Flexible windowing down to 64 x 4 (steps of 64 columns, 4 rows)
Dynamic Range	14-bit
On-Camera Image Storage	None
Radiometric Data Streaming	Gigabit Ethernet (GigE Vision), Camera Link Full
Standard Video	HD-SDI
Command and Control	Gigabit Ethernet, not Genicam compliant

Optics	
Camera f/Number	f/5
Lens	120-1200 mm Zoom
Focus	Motorized FOV/Focus

Image/Video Presentation	
Palettes	Selectable 8-bit
Automatic Gain Control	Manual, Linear, Plateau equalization, ROI, DDE
Overlay	Customizable (Date, Integration time, Internal temp, Frame rate, Sync mode, Cooler hours)
Video Modes	HD-SDI
Digital Zoom	1x, 2x, 4x



FLIR RS8203

P/N: 29366-203

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General	
Operating Temperature Range	-20°C to 50°C
Shock/Vibration	40 g, 11 msec ½ sine pulse/4.3 g RMS random vibration, all 3 axes
Power	24 VDC (< 24 W steady state)
Weight	40 kg. (88 lbs.)
Size (L x W x H)	914 mm x 305 mm x 287 mm (36 in. length x 12 in. x 11.3 in.)
Mounting	9 x 3/8"-16 tapped holes

Supplies & accessories:

P/N: 29366-213

Revision

44545

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Detector data	
Detector Type	FLIR Indium Antimonide (InSb)
Spectral Range	3.0 – 5.0 μm
Resolution	1024 x 1024
Detector Pitch	18 μm
Thermal Sensitivity/NETD	< 20 mK
Well Capacity	12.1 M electrons
Operability	> 99.8% (> 99.95% typical)
Sensor Cooling	Closed-cycle linear Stirling cooler

Electronics	
Readout Type	Snapshot
Readout Modes	Asynchronous integrate while read, Asynchronous integrate then read
Synchronization Modes	Sync In, Sync Out
Image Time Stamp	Internal IRIG-B timestamp clock, TSPI accurate
Integration Time	480 ns to Full Frame
Pixel Clock	200 MHz
Frame Rate (Full Window)	Programmable; 0.0015 Hz to 129 Hz at full window
Subwindow Mode	Flexible windowing down to 64 x 4 (steps of 64 columns, 4 rows)
Dynamic Range	14-bit
On-Camera Image Storage	None
Radiometric Data Streaming	Gigabit Ethernet (GigE Vision), CXP Single Link
Standard Video	HD-SDI
Command and Control	Gigabit Ethernet, not Genicam compliant

Optics	
Camera f/Number	f/5
Lens	120-1200 mm Zoom
Focus	Motorized FOV/Focus

Image/Video Presentation	
Palettes	Selectable 8-bit
Automatic Gain Control	Manual, Linear, Plateau equalization, ROI, DDE
Overlay	Customizable (Date, Integration time, Internal temp, Frame rate, Sync mode, Cooler hours)
Video Modes	HD-SDI



FLIR RS8213

P/N: 29366-213

Revision

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Image/Video Presentation	
Digital Zoom	1x, 2x, 4x

General	
Operating Temperature Range	-20°C to 50°C
Shock/Vibration	40 g, 11 msec ½ sine pulse/4.3 g RMS random vibration, all 3 axes
Power	24 VDC (< 24 W steady state)
Weight	40 kg. (88 lbs.)
Size (L x W x H)	914 mm x 305 mm x 287 mm (36 in. length x 12 in. x 11.3 in.)
Mounting	9 x 3/8"-16 tapped holes

Supplies & accessories:

FLIR SC6xxx series

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P/N: 24048-200

Revision

44511

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Website

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Customer support

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Detector data	
Detector Type	FLIR Indium Antimonide (InSb)
Spectral Range	1.0 – 5.0 μm
Resolution	640 x 512
Detector Pitch	15 μm
Thermal Sensitivity/NETD	< 18 mK
Well Capacity	7.2 M electrons
Operability	> 99.8% (> 99.95% typical)
Sensor Cooling	Closed-cycle rotary

Electronics	
Readout Type	Snapshot
Readout Modes	Asynchronous integrate while read Asynchronous integrate then read
Synchronization Modes	Sync In, Sync Out
Image Time Stamp	Internal IRIG-B timestamp clock, TSPI accurate
Integration Time	480 ns to Full Frame
Pixel Clock	50 MHz
Frame Rate (Full Window)	Programmable; 0.0015 Hz to 128 Hz at full window
Subwindow Mode	Flexible windowing down to 16 x 4 (steps of 16 columns, 4 rows)
Dynamic Range	14-bit
On-Camera Image Storage	None
Radiometric Data Streaming	Gigabit Ethernet (GigE Vision), Camera Link
Standard Video	NTSC or PAL composite, VGA
Command and Control	Gigabit Ethernet

Temperature Measurement	
Standard Temperature Range	-20°C to 350°C (-4°F to 662°F)
Optional Temperature Range	Up to 1,500°C (2,732°F), Up to 3,000°C (5,432°F)
Accuracy	$\pm 1^\circ\text{C}$ or $\pm 1\%$ of reading: <ul style="list-style-type: none"> 0°C to +3000°C (25 mm, 50 mm, 100 mm lenses) $\pm 2^\circ\text{C}$ or $\pm 2\%$ of reading: <ul style="list-style-type: none"> -20°C to 0°C (25 mm, 50 mm, 100 mm lenses)



FLIR SC6700

P/N: 24048-200

Revision

44511

Last modified

2017-08-29 13:02 UTC+1

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Optics	
Camera f/Number	f/2.5
Available Lenses	25 mm, 50 mm, 100 mm
Close-up Lenses/Microscopes	N/A
Lens Interface	FLIR 3-tab bayonet
Focus	Manual
Filtering	4-position motorized filter wheel

Image/Video Presentation	
Palettes	Selectable 8-bit
Automatic Gain Control	Manual, Linear, Plateau equalization, ROI, DDE
Overlay	Customizable (Date, Integration time, Internal temp, Frame rate, Sync mode, Cooler hours)
Video Modes	NTSC, PAL
Digital Zoom	1x, 2x, 4x

General	
Operating Temperature Range	-20°C to 50°C (-4°F to 122°F)
Shock/Vibration	40 g, 11 msec ½ sine pulse/4.3 g RMS random vibration, all 3 axes
Power	24 VDC (< 21.25 W steady state)
Weight w/o Lens	4.5 kg (10 lbs)
Size (L x W x H) w/o Lens	218 x 142 x 157 mm (8.6 x 5.6 x 6.2 in.)
Mounting	<ul style="list-style-type: none">• 2 x ¼" -20 tapped holes• 1 x 3/8"-16 tapped hole• 4 x 10-24 tapped holes

Supplies & accessories:

- 27660-000; Lens 1-5 um 25 mm f/2.3 Three Tab Bayonet
- 27660-001; Lens 1-5 um 50 mm f/2.3 Three Tab Bayonet
- 27660-002; Lens 1-5 um 100 mm f/2.3 Three Tab Bayonet
- T128664ACC; FLIR BHP SDK

P/N: 24048-201

Revision

44512

Last modified

2017-08-29 13:03 UTC+1

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Website

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Customer support

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Detector data	
Detector Type	FLIR Indium Antimonide (InSb)
Spectral Range	3.0 – 5.0 μm
Resolution	640 x 512
Detector Pitch	15 μm
Thermal Sensitivity/NETD	< 18 mK
Well Capacity	7.2 M electrons
Operability	> 99.8% (> 99.95% typical)
Sensor Cooling	Closed-cycle rotary

Electronics	
Readout Type	Snapshot
Readout Modes	Asynchronous integrate while read Asynchronous integrate then read
Synchronization Modes	Sync In, Sync Out
Image Time Stamp	Internal IRIG-B timestamp clock, TSPI accurate
Integration Time	480 ns to Full Frame
Pixel Clock	50 MHz
Frame Rate (Full Window)	Programmable; 0.0015 Hz to 128 Hz at full window
Subwindow Mode	Flexible windowing down to 16 x 4 (steps of 16 columns, 4 rows)
Dynamic Range	14-bit
On-Camera Image Storage	None
Radiometric Data Streaming	Gigabit Ethernet (GigE Vision), Camera Link
Standard Video	NTSC or PAL composite, VGA
Command and Control	Gigabit Ethernet

Temperature Measurement	
Standard Temperature Range	-20°C to 350°C (-4°F to 662°F)
Optional Temperature Range	Up to 1,500°C (2,732°F), Up to 3,000°C (5,432°F)
Accuracy	<p>$\pm 1^\circ\text{C}$ or $\pm 1\%$ of reading:</p> <ul style="list-style-type: none"> 0°C to +3000°C (17mm, 25 mm, 50 mm, 100 mm, 200 mm lenses) <p>$\pm 2^\circ\text{C}$ or $\pm 2\%$ of reading:</p> <ul style="list-style-type: none"> -20°C to 0°C (17 mm, 25 m, 50 mm, 100 mm, 200 mm lenses) -10°C to +500°C (1x & 4x Close Up lenses)



FLIR SC6701

P/N: 24048-201

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Optics	
Camera f/Number	f/2.5
Available Lenses	17 mm, 25 mm, 50 mm, 100 mm, 200 mm
Close-up Lenses/Microscopes	1x, 4x (3-5 μ m, requires f/4 camera)
Lens Interface	FLIR 3-tab bayonet
Focus	Manual
Filtering	4-position motorized filter wheel

Image/Video Presentation	
Palettes	Selectable 8-bit
Automatic Gain Control	Manual, Linear, Plateau equalization, ROI, DDE
Overlay	Customizable (Date, Integration time, Internal temp, Frame rate, Sync mode, Cooler hours)
Video Modes	NTSC, PAL
Digital Zoom	1x, 2x, 4x

General	
Operating Temperature Range	-20°C to 50°C (-4°F to 122°F)
Shock/Vibration	40 g, 11 msec ½ sine pulse/4.3 g RMS random vibration, all 3 axes
Power	24 VDC (< 21.25 W steady state)
Weight w/o Lens	4.5kg (10 lbs)
Size (L x W x H) w/o Lens	218 x 142 x 157 mm (8.6 x 5.6 x 6.2 in.)
Mounting	<ul style="list-style-type: none">• 2 x ¼" -20 tapped holes• 1 x 3/8"-16 tapped hole• 4 x 10-24 tapped holes

Supplies & accessories:

- 29245-000; Lens, 3-5 μ m, 1X microscope, f/4 Three Tab Bayonet
- 29245-002; Lens, 3-5 μ m, 4X microscope, f/4 Three Tab Bayonet
- 4138205; Lens 3-5 μ m 13 mm f/2.5 Three Tab Bayonet
- 26498-000; 25mm lens, 3.0-5.0 μ m, f/2.5
- 26498-001; 50mm lens, 3.0-5.0 μ m, f/2.5
- 26498-002; 100mm lens, 3.0-5.0 μ m, f/2.5
- 26498-004; 200mm lens, 3.0-5.0 μ m, f/2.5

P/N: 24048-202

Revision

44513

Last modified

2017-08-29 13:05 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Detector data	
Detector Type	FLIR Indium Antimonide (InSb)
Spectral Range	1.0 – 5.0 μm
Resolution	640 x 512
Detector Pitch	15 μm
Thermal Sensitivity/NETD	< 18 mK
Well Capacity	7.2 M electrons
Operability	> 99.8% (> 99.95% typical)
Sensor Cooling	Closed-cycle rotary

Electronics	
Readout Type	Snapshot
Readout Modes	Asynchronous integrate while read Asynchronous integrate then read
Synchronization Modes	Sync In, Sync Out
Image Time Stamp	Internal IRIG-B timestamp clock, TSPI accurate
Integration Time	480 ns to Full Frame
Pixel Clock	50 MHz
Frame Rate (Full Window)	Programmable; 0.0015 Hz to 128 Hz at full window
Subwindow Mode	Flexible windowing down to 16 x 4 (steps of 16 columns, 4 rows)
Dynamic Range	14-bit
On-Camera Image Storage	None
Radiometric Data Streaming	Gigabit Ethernet (GigE Vision), Camera Link
Standard Video	NTSC or PAL composite, VGA
Command and Control	Gigabit Ethernet

Temperature Measurement	
Standard Temperature Range	-20°C to 350°C (-4°F to 662°F)
Optional Temperature Range	Up to 1,500°C (2,732°F), Up to 3,000°C (5,432°F)
Accuracy	$\pm 1^\circ\text{C}$ or $\pm 1\%$ of reading: <ul style="list-style-type: none"> 0°C to +3000°C (25 mm, 50 mm, 100 mm lenses)
	$\pm 2^\circ\text{C}$ or $\pm 2\%$ of reading: <ul style="list-style-type: none"> -20°C to 0°C (25 mm, 50 mm, 100 mm lenses)



FLIR SC6702

P/N: 24048-202

Revision

44513

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2017-08-29 13:05 UTC+1

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Optics	
Camera f/Number	f/4
Available Lenses	25 mm, 50 mm, 100mm
Close-up Lenses/Microscopes	N/A
Lens Interface	FLIR 3-tab bayonet
Focus	Manual
Filtering	4-position motorized filter wheel

Image/Video Presentation	
Palettes	Selectable 8-bit
Automatic Gain Control	Manual, Linear, Plateau equalization, ROI, DDE
Overlay	Customizable (Date, Integration time, Internal temp, Frame rate, Sync mode, Cooler hours)
Video Modes	NTSC, PAL
Digital Zoom	1x, 2x, 4x

General	
Operating Temperature Range	-20°C to 50°C (-4°F to 122°F)
Shock/Vibration	40 g, 11 msec ½ sine pulse/4.3 g RMS random vibration, all 3 axes
Power	24 VDC (< 21.25 W steady state)
Weight w/o Lens	4.5kg (10 lbs)
Size (L x W x H) w/o Lens	218 x 142 x 157 mm (8.6 x 5.6 x 6.2 in.)
Mounting	<ul style="list-style-type: none">• 2 x ¼" -20 tapped holes• 1 x 3/8"-16 tapped hole• 4 x 10-24 tapped holes

Supplies & accessories:

- 27660-000; Lens 1-5 um 25 mm f/2.3 Three Tab Bayonet
- 27660-001; Lens 1-5 um 50 mm f/2.3 Three Tab Bayonet
- 27660-002; Lens 1-5 um 100 mm f/2.3 Three Tab Bayonet

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44514

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Website

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Customer support

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Detector data	
Detector Type	FLIR Indium Antimonide (InSb)
Spectral Range	3.0 – 5.0 μm
Resolution	640 x 512
Detector Pitch	15 μm
Thermal Sensitivity/NETD	< 18 mK
Well Capacity	7.2 M electrons
Operability	> 99.8% (> 99.95% typical)
Sensor Cooling	Closed-cycle rotary

Electronics	
Readout Type	Snapshot
Readout Modes	Asynchronous integrate while read Asynchronous integrate then read
Synchronization Modes	Sync In, Sync Out
Image Time Stamp	Internal IRIG-B timestamp clock, TSPI accurate
Integration Time	480 ns to Full Frame
Pixel Clock	50 MHz
Frame Rate (Full Window)	Programmable; 0.0015 Hz to 128 Hz at full window
Subwindow Mode	Flexible windowing down to 16 x 4 (steps of 16 columns, 4 rows)
Dynamic Range	14-bit
On-Camera Image Storage	None
Radiometric Data Streaming	Gigabit Ethernet (GigE Vision), Camera Link
Standard Video	NTSC or PAL composite, VGA
Command and Control	Gigabit Ethernet

Temperature Measurement	
Standard Temperature Range	-20°C to 350°C (-4°F to 662°F)
Optional Temperature Range	Up to 1,500°C (2,732°F), Up to 3,000°C (5,432°F)
Accuracy	$\pm 1^\circ\text{C}$ or $\pm 1\%$ of reading: <ul style="list-style-type: none"> 0°C to +3000°C (17 mm, 25 mm, 50 mm, 100 mm, 200 mm lenses)



FLIR SC6703

P/N: 24048-203

Revision

44514

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2017-08-29 13:06 UTC+1

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Customer support

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Temperature Measurement	
	$\pm 2^{\circ}\text{C}$ or $\pm 2\%$ of reading: <ul style="list-style-type: none"> -20°C to 0°C (17 mm, 25 mm, 50 mm, 100 mm, 200 mm lenses) -10°C to +500°C (1x & 4x Close Up lenses)

Optics	
Camera f/Number	f/4
Available Lenses	3-5 μm : 17 mm, 25 mm, 50 mm, 100 mm, 200 mm
Close-up Lenses/Microscopes	1x, 4x (3-5 μm , requires f/4 camera)
Lens Interface	FLIR 3-tab bayonet
Focus	Manual
Filtering	4-position motorized filter wheel

Image/Video Presentation	
Palettes	Selectable 8-bit
Automatic Gain Control	Manual, Linear, Plateau equalization, ROI, DDE
Overlay	Customizable (Date, Integration time, Internal temp, Frame rate, Sync mode, Cooler hours)
Video Modes	NTSC, PAL
Digital Zoom	1x, 2x, 4x

General	
Operating Temperature Range	-20°C to 50°C (-4°F to 122°F)
Shock/Vibration	40 g, 11 msec 1/2 sine pulse/4.3 g RMS random vibration, all 3 axes
Power	24 VDC (< 21.25 W steady state)
Weight w/o Lens	4.5kg (10 lbs)
Size (L x W x H) w/o Lens	218 x 142 x 157 mm (8.6 x 5.6 x 6.2 in.)
Mounting	<ul style="list-style-type: none"> 2 x 1/4" -20 tapped holes 1 x 3/8"-16 tapped hole 4 x 10-24 tapped holes

Supplies & accessories:

- 29245-000; Lens, 3-5 μm , 1X microscope, f/4 Three Tab Bayonet
- 29245-002; Lens, 3-5 μm , 4X microscope, f/4 Three Tab Bayonet
- 4138205; Lens 3-5 μm 13 mm f/2.5 Three Tab Bayonet
- 26498-000; 25mm lens, 3.0-5.0 μm , f/2.5
- 26498-001; 50mm lens, 3.0-5.0 μm , f/2.5
- 26498-002; 100mm lens, 3.0-5.0 μm , f/2.5
- 26498-004; 200mm lens, 3.0-5.0 μm , f/2.5

FLIR SC7xxx series

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P/N: 67904-0101

Revision

29700

Last modified

2015-10-16 07:11 UTC+1

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Website

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Customer support

<http://support.flir.com>



Detector/image	
Detector type	Focal plane array (FPA)
Sensor material	InGaAs
IR resolution	320 × 256
Detector pitch	30 μm
f-number	N/A
Optical interface	C-Mount
Lens identification	N/A
Windowing	160 × 128/80 × 64/User
Arbitrary size windowing (down to)	48 × 8
Arbitrary size windowing (steps)	Horizontal: ≥ 48 steps of 16 pixels Vertical: ≥ 8 steps of 4 pixels
Maximum image frequency (full frame)	340 Hz
Maximum image frequency	20 kHz
Maximum frame rate	340 Hz @ 320 × 256 @ 6 μs 1025 Hz @ 160 × 128 @ 6 μs 2695 Hz @ 80 × 64 @ 6 μs 20 400 Hz @ 48 × 4 @ 6 μs
Integration time range	400 ns to 999ms
Integration time step	200 ns
Integration time mode	ITR/IWR/fast ITR
Digital output	GigE
Cooler type	2-stage TEC switchable (1 or 2 TEC operation)
Cooling temperature	Down to -5°C (23°F) with 2-stage TEC operation
Operability	>99%

Physical data	
Size (L × W × H)	253 mm × 130 mm × 168 mm (9.96" × 5.12" × 6.61") (without lens)
Weight without lens	4.350 kg (10.580 lb.) (without lens)
Tripod mounting	UNC ¼"-20

Power system	
Power supply	12 V DC



FLIR SC7100 SW

P/N: 67904-0101

Revision

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Website

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Power system	
Power consumption (cooldown/stab)	25 W (single TEC)/60 W (double TEC)

Environmental data	
Operating temperature range	-20°C/+50°C (-4°F/131°F)
Bump	Operational 25G, IEC 68-2-29
Vibration	Operational 2G, IEC 68-2-26
Encapsulation	IP 54 (IEC 60529)

Radiometry/measurement	
Spectral range	0.9–1.7 μm
Thermal sensitivity/NETD	N/A
CNUCTM/HypercalTM	No
CLUT/extended linear response	No
Temperature measurement accuracy	$\pm 1\%$
Maximum temperature without filter	
Well capacity (e-)	Low gain: 3.5 Me- High gain: 0.17 Me-
Filter wheel	4 slots for 1" filter 1 mm thick
Filter holding	Screw-in holder

Timings and signals	
SYNC IN	LVTTTL
SYNC IN jitter	200 ns
SYNC IN active edge	Falling or rising edge
Delay between SYNC IN and integration	
Delay between SYNC IN and top frame	
Analog signals	1 \times (-5 to 5 V) + 2 \times (0–10 V)
TRIGGER IN	LVTTTL
Video output	PAL or NTSC/composite or S-Video
Waveform generator	N/A

Ethernet	
GigE Vision	Yes

Camera link	
Connector type	1 \times MDR26
Tap number	1 (A/B)
Bit depth	16 bpp

Radio	
Wi-Fi	N/A
Antenna	N/A

Shipping information	
Packaging, type	



FLIR SC7100 SW

P/N: 67904-0101

Revision

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Shipping information	
Packaging, weight	
Packaging, size	
EAN-13	7332558008652
UPC-12	845188009175
Country of origin	Sweden

Lenses	
Available optic 1	L0908 6 mm f/1.4 (77° × 65°)
Available optic 2	L0920 12 mm f/1.4 (44° × 35°)
Available optic 3	L0921 16 mm f/1.4 (33° × 27°)
Available optic 4	L0922 25 mm f/1.6 (22° × 17°)
Available optic 5	L0923 35 mm f/1.6 (16° × 12°)
Available optic 6	L0924 50 mm f/2 (11° × 9°)
Available optic 7	L0925 75 mm F2.5 (7,3° × 5,8°)
Available optic 8	L0926 100 mm f/2,8 (5.5° × 4,4°)
Available optic 9	L1001 1000 mm f/10 (0.59° × 0,47°)
Available optic 10	L1010 High performance 25 mm f/1.4 (22° × 17°)
Available optic 11	L1011 High performance 35 mm f/1.4 (16° × 12°)
Available optic 12	L1012 High performance 50 mm f/1.4 (11° × 9°)
Available optic 13	L1015 High performance macro zoom f/7 to f/21 x0.7 up to x4.5

P/N: 68101-0101

Revision

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Website

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Customer support

<http://support.flir.com>



Detector/image	
Detector type	Focal plane array (FPA)
Sensor material	InSb
IR resolution	320 × 256
Detector pitch	30 μm
f-number	f/3
Optical interface	M80 thread
Lens identification	N/A
Windowing	160 × 128/64 × 120/64 × 8
Arbitrary size windowing (down to)	No
Arbitrary size windowing (steps)	N/A
Maximum image frequency (full frame)	170 Hz
Maximum image frequency	> 11 kHz
Maximum frame rate	178 Hz @ 320 × 256 @ 8 μs 656 Hz @ 160 × 128 @ 8 μs 1479 Hz @ 64 × 120 @ 8 μs 11427 Hz @ 64 × 8 @ 8 μs
Integration time range	1–20 000 μs
Integration time step	250 ns
Integration time mode	ITR
Digital output	GigE/Camlink base
Cooler type	Closed-cycle (rotary) Stirling cooler
Cooling temperature	77 K
Operability	>99.5%

Physical data	
Size (L × W × H)	253 mm × 130 mm × 168 mm (9.96" × 5.12" × 6.61") (without lens)
Weight without lens	4.950 kg (10.910 lb.) (without lens)
Tripod mounting	UNC ¼"-20

Power system	
Power supply	12 V DC (10–15 V DC)
Power consumption (cooldown/stab)	30 W/25 W



FLIR SC7200

P/N: 68101-0101

Revision

29700

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Environmental data	
Operating temperature range	-20°C/+50°C (-4°F/131°F)
Bump	Operational 25G, IEC 68-2-29
Vibration	Operational 2G, IEC 68-2-26
Encapsulation	IP 54 (IEC 60529)

Radiometry/measurement	
Spectral range	1.5–5.5 μm
Thermal sensitivity/NETD	<25 mK (20 mK typical)
CNUCTM/HypercalTM	Yes
CLUT/extended linear response	No
Temperature measurement accuracy	$\pm 1^\circ\text{C}$ (1.8°F) or $\pm 1\%$
Maximum temperature without filter	300°C (572°F)
Well capacity (e-)	7.11 Me-
Filter wheel	4 slots for 1" filter 1 mm thick
Filter holding	Glued

Timings and signals	
SYNC IN	LVTTL
SYNC IN jitter	250 ns
SYNC IN active edge	Falling or rising edge
Delay between SYNC IN and integration	7.15–7.4 μs
Delay between SYNC IN and top frame	2.4–2.65 μs
Analog signals	1 \times (-5 to 5 V) + 2 \times (0–10 V)
TRIGGER IN	LVTTL
Video output	PAL or NTSC/composite or S-Video
Waveform generator	N/A

Ethernet	
GigE Vision	Yes

Camera link	
Connector type	1 \times MDR26
Tap number	1 (A/B)
Bit depth	16 bpp

Radio	
Wi-Fi	N/A
Antenna	N/A

Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558008799



FLIR SC7200

P/N: 68101-0101

Revision

29700

Last modified

2015-10-16 07:11 UTC+1

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Shipping information	
UPC-12	845188009311
Country of origin	Sweden

Lenses	
Available optic 1	L0315 12 mm f/2
Available optic 2	L0116 25 mm f/2
Available optic 3	L0106 50 mm f/2
Available optic 4	L0118 100 mm f/2
Available optic 5	L0804 200 mm f/2
Available optic 6	L0120 Close up x1 f/2
Available optic 7	L0120E Close up x3 f/2
Available optic 8	L0905 Close up x1 wd 30cm
Available optic 9	L0709T 27 mm BB f/3
Available optic 10	L0608T 50 mm BB f/3
Available optic 11	L0604T 100 mm BB f/3
Available optic 12	L0701 200 mm BB f/3
Available optic 13	

P/N: 65801-0101

Revision

29700

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Website

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Customer support

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Detector/image	
Detector type	Focal plane array (FPA)
Sensor material	InSb
IR resolution	320 × 256
Detector pitch	30 μm
f-number	f/3
Optical interface	M80 thread
Lens identification	N/A
Windowing	160 × 128/64 × 120/80 × 64
Arbitrary size windowing (down to)	No
Arbitrary size windowing (steps)	N/A
Maximum image frequency (full frame)	190 Hz
Maximum image frequency	3040 Hz
Maximum frame rate	190 Hz @ 320 × 256 @ 8 μs 760 Hz @ 160 × 128 @ 8 μs 3040 Hz @ 64 × 120 @ 8 μs
Integration time range	1–20 000 μs
Integration time step	250 ns
Integration time mode	IWR/ITR
Digital output	GigE/Camlink base
Cooler type	Closed-cycle (rotary) Stirling cooler
Cooling temperature	77 K
Operability	>99.5%

Physical data	
Size (L × W × H)	253 mm × 130 mm × 168 mm (9.96" × 5.12" × 6.61") (without lens)
Weight without lens	4.950 kg (10.910 lb.) (without lens)
Tripod mounting	UNC ¼"-20
Power system	
Power supply	12 V DC (10–15 V DC)
Power consumption (cooldown/stab)	30 W/25 W



FLIR SC7210

P/N: 65801-0101

Revision

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Website

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Customer support

<http://support.flir.com>

Environmental data	
Operating temperature range	-20°C/+50°C (-4°F/131°F)
Bump	Operational 25G, IEC 68-2-29
Vibration	Operational 2G, IEC 68-2-26
Encapsulation	IP 54 (IEC 60529)

Radiometry/measurement	
Spectral range	1.5–5.5 µm
Thermal sensitivity/NETD	<25 mK (20 mK typical)
CNUCTM/HypercalTM	Yes
CLUT/extended linear response	No
Temperature measurement accuracy	±1°C (1.8°F) or ±1%
Maximum temperature without filter	300°C (572°F)
Well capacity (e-)	5 Me-
Filter wheel	4 slots for 1" filter 1 mm thick
Filter holding	Screw-in holder

Timings and signals	
SYNC IN	LVTTL
SYNC IN jitter	100 ns
SYNC IN active edge	Falling or rising edge
Delay between SYNC IN and integration	1100–1200 ns
Delay between SYNC IN and top frame	0.768 µs
Analog signals	1 × (-5 to 5 V) + 2 × (0–10 V)
TRIGGER IN	LVTTL
Video output	PAL or NTSC/composite or S-Video
Waveform generator	N/A

Ethernet	
GigE Vision	Yes

Camera link	
Connector type	1 × MDR26
Tap number	1 (A/B)
Bit depth	16 bpp

Radio	
Wi-Fi	N/A
Antenna	N/A

Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558007952



FLIR SC7210

P/N: 65801-0101

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Shipping information	
UPC-12	845188008314
Country of origin	Sweden

Lenses	
Available optic 1	L0315 12 mm f/2
Available optic 2	L0116 25 mm f/2
Available optic 3	L0106 50 mm f/2
Available optic 4	L0118 100 mm f/2
Available optic 5	L0804 200 mm f/2
Available optic 6	L0120 Close up x1 f/2
Available optic 7	L0120E Close up x3 f/2
Available optic 8	L0905 Close up x1 wd 30cm
Available optic 9	L0709T 27 mm BB f/3
Available optic 10	L0608T 50 mm BB f/3
Available optic 11	L0604T 100 mm BB f/3
Available optic 12	L0701 200 mm BB f/3
Available optic 13	

P/N: 65901-0101

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Website

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Customer support

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Detector/image	
Detector type	Focal plane array (FPA)
Sensor material	MCT
IR resolution	320 × 256
Detector pitch	30 μm
f-number	f/2 or f/4
Optical interface	M80 thread
Lens identification	N/A
Windowing	160 × 128/80 × 64
Arbitrary size windowing (down to)	
Arbitrary size windowing (steps)	Horizontal: ≥64 steps of 4 pixels Vertical: ≥3 steps
Maximum image frequency (full frame)	235 Hz
Maximum image frequency	32780 Hz
Maximum frame rate	235 Hz @ 320 × 256 @ 8 μs 915 Hz @ 160 × 128 @ 8 μs 3420 Hz @ 80 × 64 @ 8 μs 32 780 Hz @ 64 × 3 @ 8 μs
Integration time range	10–20 000 μs
Integration time step	250 ns
Integration time mode	ITR
Digital output	GigE/Camlink base
Cooler type	Closed-cycle (rotary) Stirling cooler
Cooling temperature	90 K
Operability	>99%

Physical data	
Size (L × W × H)	253 mm × 130 mm × 168 mm (9.96" × 5.12" × 6.61") (without lens)
Weight without lens	4.950 kg (10.910 lb.) (without lens)
Tripod mounting	UNC ¼"-20

Power system	
Power supply	12 V DC (10–15 V DC)
Power consumption (cooldown/stab)	30 W/25 W



FLIR SC7300 LW

P/N: 65901-0101

Revision

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Website

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Customer support

<http://support.flir.com>

Environmental data	
Operating temperature range	-20°C/+50°C (-4°F/131°F)
Bump	Operational 25G, IEC 68-2-29
Vibration	Operational 2G, IEC 68-2-26
Encapsulation	IP 54 (IEC 60529)

Radiometry/measurement	
Spectral range	7.7–9.3 μm
Thermal sensitivity/NETD	
CNUCTM/HypercalTM	Yes
CLUT/extended linear response	No
Temperature measurement accuracy	±1°C (1.8°F) or ±1%
Maximum temperature without filter	150°C (302°F)
Well capacity (e-)	37 Me-/12 Me- (37 Me- default)
Filter wheel	4 slots for 1" filter 1 mm thick
Filter holding	Screw-in holder

Timings and signals	
SYNC IN	LVTTTL
SYNC IN jitter	
SYNC IN active edge	Falling or rising edge
Delay between SYNC IN and integration	2 μs
Delay between SYNC IN and top frame	200 ns
Analog signals	1 × (-5 to 5 V) + 2 × (0–10 V)
TRIGGER IN	LVTTTL
Video output	PAL or NTSC/composite or S-Video
Waveform generator	N/A

Ethernet	
GigE Vision	Yes

Camera link	
Connector type	1 × MDR26
Tap number	1 (A/B)
Bit depth	16 bpp

Radio	
Wi-Fi	N/A
Antenna	N/A

Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558007976



FLIR SC7300 LW

P/N: 65901-0101

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Shipping information	
UPC-12	845188008338
Country of origin	Sweden

Lenses	
Available optic 1	L0306V 12 mm f/2
Available optic 2	L0324V 25 mm f/2
Available optic 3	L0302V 50 mm f/2
Available optic 4	
Available optic 5	
Available optic 6	L0201V 100 mm f/2
Available optic 7	L0113TV 200 mm f/2
Available optic 8	L0215V Close up x1 f/2
Available optic 9	L0215E Close up x3 f/2
Available optic 10	
Available optic 11	
Available optic 12	
Available optic 13	

P/N: 66001-0101

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Detector/image	
Detector type	Focal plane array (FPA)
Sensor material	MCT
IR resolution	320 × 256
Detector pitch	30 μm
f-number	f/2 or f/4
Optical interface	M80 thread
Lens identification	N/A
Windowing	160 × 128/80 × 64
Arbitrary size windowing (down to)	64 × 3
Arbitrary size windowing (steps)	Horizontal: ≥64 steps of 4 pixels Vertical: ≥3 steps
Maximum image frequency (full frame)	235 Hz
Maximum image frequency	32780 Hz
Maximum frame rate	235 Hz @ 320 × 256 @ 8 μs 915 Hz @ 160 × 128 @ 8 μs 3420 Hz @ 80 × 64 @ 8 μs 32780 Hz @ 64 × 3 @ 8 μs
Integration time range	10–20 000 μs
Integration time step	250 ns
Integration time mode	ITR
Digital output	GigE/Camlink base
Cooler type	Closed-cycle (rotary) Stirling cooler
Cooling temperature	90 K
Operability	>99%

Physical data	
Size (L × W × H)	253 mm × 130 mm × 168 mm (9.96" × 5.12" × 6.61") (without lens)
Weight without lens	4.950 kg (10.910 lb.) (without lens)
Tripod mounting	UNC ¼"-20

Power system	
Power supply	12 V DC (10–15 V DC)
Power consumption (cooldown/stab)	30 W/25 W



FLIR SC7300 MW

P/N: 66001-0101

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Website

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Customer support

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Environmental data	
Operating temperature range	-20°C/+50°C (-4°F/131°F)
Bump	Operational 25G, IEC 68-2-29
Vibration	Operational 2G, IEC 68-2-26
Encapsulation	IP 54 (IEC 60529)

Radiometry/measurement	
Spectral range	3.7–4.8 μm
Thermal sensitivity/NETD	<20 mK
CNUCTM/HypercalTM	Yes
CLUT/extended linear response	No
Temperature measurement accuracy	$\pm 1^\circ\text{C}$ (1.8°F) or $\pm 1\%$
Maximum temperature without filter	150°C (302°F)
Well capacity (e-)	37 Me-/12 Me- (12 Me- default)
Filter wheel	4 slots for 1" filter 1 mm thick
Filter holding	Screw-in holder

Timings and signals	
SYNC IN	LVTTTL
SYNC IN jitter	200 ns
SYNC IN active edge	Falling or rising edge
Delay between SYNC IN and integration	2 μs
Delay between SYNC IN and top frame	200 ns
Analog signals	1 \times (-5 to 5 V) + 2 \times (0–10 V)
TRIGGER IN	LVTTTL
Video output	PAL or NTSC/composite or S-Video
Waveform generator	N/A

Ethernet	
GigE Vision	Yes

Camera link	
Connector type	1 \times MDR26
Tap number	1 (A/B)
Bit depth	16 bpp

Radio	
Wi-Fi	N/A
Antenna	N/A

Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558007983



FLIR SC7300 MW

P/N: 66001-0101

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Shipping information	
UPC-12	845188008345
Country of origin	Sweden

Lenses	
Available optic 1	L0315 12 mm f/2
Available optic 2	L0116 25 mm f/2
Available optic 3	L0106 50 mm f/2
Available optic 4	L0118 100 mm f/2
Available optic 5	L0804 200 mm f/2
Available optic 6	L0120 Close up x1 f/2
Available optic 7	L0120E Close up x3 f/2
Available optic 8	L0905 Close up x1 wd 30cm
Available optic 9	
Available optic 10	
Available optic 11	
Available optic 12	
Available optic 13	

P/N: 65801-0202

Revision

29700

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Website

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Customer support

<http://support.flir.com>



Detector/image	
Detector type	Focal plane array (FPA)
Sensor material	InSb
IR resolution	320 × 256
Detector pitch	30 μm
f-number	f/3
Optical interface	M80 thread
Lens identification	N/A
Windowing	160 × 128/64 × 128
Arbitrary size windowing (down to)	64 × 4
Arbitrary size windowing (steps)	Horizontal: ≥48, steps of 16 pixels Vertical: ≥4, steps of 2 pixels
Maximum image frequency (full frame)	383 Hz
Maximum image frequency	31740 Hz
Maximum frame rate	383 Hz @ 320 × 256 @ 8 μs 1250 Hz @ 160 × 128 @ 8 μs 3590 Hz @ 80 × 64 @ 8 μs 31740 Hz @ 48 × 4 @ 8 μs
Integration time range	1–20 000 μs
Integration time step	250 ns
Integration time mode	IWR/ITR
Digital output	GigE/Camlink base
Cooler type	Closed-cycle (rotary) Stirling cooler
Cooling temperature	77 K
Operability	>99.5%

Physical data	
Size (L × W × H)	253 mm × 130 mm × 168 mm (9.96" × 5.12" × 6.61") (without lens)
Weight without lens	4.950 kg (10.910 lb.) (without lens)
Tripod mounting	UNC ¼"-20

Power system	
Power supply	12 V DC (10–15 V DC)



FLIR SC7500

P/N: 65801-0202

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Power system	
Power consumption (cooldown/stab)	30 W/25 W

Environmental data	
Operating temperature range	-20°C/+50°C (-4°F/131°F)
Bump	Operational 25G, IEC 68-2-29
Vibration	Operational 2G, IEC 68-2-26
Encapsulation	IP 54 (IEC 60529)

Radiometry/measurement	
Spectral range	1.5–5.5 μm
Thermal sensitivity/NETD	<25 mK (20 mK typical)
CNUCTM/HypercalTM	Yes
CLUT/extended linear response	No
Temperature measurement accuracy	$\pm 1^\circ\text{C}$ (1.8°F) or $\pm 1\%$
Maximum temperature without filter	300°C (572°F)
Well capacity (e-)	21 Me- in ITR 16 Me- in IWR
Filter wheel	4 slots for 1" filter 1 mm thick
Filter holding	Screw-in holder

Timings and signals	
SYNC IN	LVTTL
SYNC IN jitter	100 ns
SYNC IN active edge	Falling or rising edge
Delay between SYNC IN and integration	1100–1200 ns
Delay between SYNC IN and top frame	0.768 μs
Analog signals	1 \times (-5 to 5 V) + 2 \times (0–10 V)
TRIGGER IN	LVTTL
Video output	PAL or NTSC/composite or S-Video
Waveform generator	N/A

Ethernet	
GigE Vision	Yes

Camera link	
Connector type	1 \times MDR26
Tap number	1 (A/B)
Bit depth	16 bpp

Radio	
Wi-Fi	N/A
Antenna	N/A

Shipping information	
Packaging, type	



FLIR SC7500

P/N: 65801-0202

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Shipping information	
Packaging, weight	
Packaging, size	
EAN-13	7332558007969
UPC-12	845188008321
Country of origin	Sweden

Lenses	
Available optic 1	L0315 12 mm f/2
Available optic 2	L0116 25 mm f/2
Available optic 3	L0106 50 mm f/2
Available optic 4	L0118 100 mm f/2
Available optic 5	L0804 200 mm f/2
Available optic 6	L0120 Close up x1 f/2
Available optic 7	L0120E Close up x3 f/2
Available optic 8	L0905 Close up x1 wd 30cm
Available optic 9	L0709T 27 mm BB f/3
Available optic 10	L0608T 50 mm BB f/3
Available optic 11	L0604T 100 mm BB f/3
Available optic 12	L0701 200 mm BB f/3
Available optic 13	

P/N: 66101-0101

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Detector/image	
Detector type	Focal plane array (FPA)
Sensor material	InSb
IR resolution	640 × 512
Detector pitch	15 μm
f-number	f/3
Optical interface	M80 thread
Lens identification	N/A
Windowing	320 × 256/160 × 128
Arbitrary size windowing (down to)	48 × 4
Arbitrary size windowing (steps)	Horizontal: ≥48, steps of 16 pixels Vertical: ≥4, steps of 4 pixels
Maximum image frequency (full frame)	100 Hz
Maximum image frequency	3425 Hz
Maximum frame rate	100 Hz @ 640 × 512 @ 20 μs /IWR 328 @ 320 × 256 @ 20 μs/IWR 870 Hz @ 160 × 128 @ 10 μs/IWR 3425 Hz @ 48 × 4 @ 10 μs/IWR
Integration time range	0.1–20 000 μs
Integration time step	200 ns
Integration time mode	IWR/ITR
Digital output	GigE/Camlink base
Cooler type	Closed-cycle (rotary) Stirling cooler
Cooling temperature	77 K
Operability	>99.5%

Physical data	
Size (L × W × H)	253 mm × 130 mm × 168 mm (9.96" × 5.12" × 6.61") (without lens)
Weight without lens	4.950 kg (10.910 lb.) (without lens)
Tripod mounting	UNC ¼"-20

Power system	
Power supply	12 V DC (10–15 V DC)



FLIR SC7600

P/N: 66101-0101

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Power system	
Power consumption (cooldown/stab)	30 W/25 W

Environmental data	
Operating temperature range	-20°C/+50°C (-4°F/131°F)
Bump	Operational 25G, IEC 68-2-29
Vibration	Operational 2G, IEC 68-2-26
Encapsulation	IP 54 (IEC 60529)

Radiometry/measurement	
Spectral range	1.5–5.5 µm
Thermal sensitivity/NETD	<25 mK (20 mK typical)
CNUCTM/HypercalTM	Yes
CLUT/extended linear response	No
Temperature measurement accuracy	±1°C (1.8°F) or ±1%
Maximum temperature without filter	300°C (572°F)
Well capacity (e-)	7 Me-
Filter wheel	4 slots for 1" filter 1 mm thick
Filter holding	Screw-in holder

Timings and signals	
SYNC IN	LVTTL
SYNC IN jitter	
SYNC IN active edge	Falling or rising edge
Delay between SYNC IN and integration	2.2–2.4 µs ITR
Delay between SYNC IN and top frame	1.8–2 µs ITR and IWR
Analog signals	1 × (-5 to 5 V) + 2 × (0–10 V)
TRIGGER IN	LVTTL
Video output	PAL or NTSC/composite or S-Video
Waveform generator	N/A

Ethernet	
GigE Vision	Yes

Camera link	
Connector type	1 × MDR26
Tap number	1 (A/B)
Bit depth	16 bpp

Radio	
Wi-Fi	N/A
Antenna	N/A

Shipping information	
Packaging, type	



FLIR SC7600

P/N: 66101-0101

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Shipping information	
Packaging, weight	
Packaging, size	
EAN-13	7332558007990
UPC-12	845188008352
Country of origin	Sweden

Lenses	
Available optic 1	L0315 12 mm f/2
Available optic 2	L0116 25 mm f/2
Available optic 3	L0106 50 mm f/2
Available optic 4	L0118 100 mm f/2
Available optic 5	L0804 200 mm f/2
Available optic 6	L0120 Close up x1 f/2
Available optic 7	L0120E Close up x3 f/2
Available optic 8	L0905 Close up x1 wd 30cm
Available optic 9	L0709T 27 mm BB f/3
Available optic 10	L0608T 50 mm BB f/3
Available optic 11	L0604T 100 mm BB f/3
Available optic 12	L0701 200 mm BB f/3
Available optic 13	

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Detector/image	
Detector type	Focal plane array (FPA)
Sensor material	InSb
IR resolution	640 × 512
Detector pitch	15 μm
f-number	f/3
Optical interface	M80 thread
Lens identification	N/A
Windowing	320 × 256/160 × 128
Arbitrary size windowing (down to)	48 × 4
Arbitrary size windowing (steps)	Horizontal: ≥48, steps of 16 pixels Vertical: ≥4, steps of 4 pixels
Maximum image frequency (full frame)	100 Hz
Maximum image frequency	3425 Hz
Maximum frame rate	100 Hz @ 640 × 512 @ 20 μs /IWR 328 @ 320 × 256 @ 20 μs/IWR 870 Hz @ 160 × 128 @ 10 μs/IWR 3425 Hz @ 48 × 4 @ 10 μs/IWR
Integration time range	0.1–20 000 μs
Integration time step	200 ns
Integration time mode	IWR/ITR
Digital output	GigE/Camlink base
Cooler type	Closed-cycle (rotary) Stirling cooler
Cooling temperature	77 K
Operability	>99.5%

Physical data	
Size (L × W × H)	253 mm × 130 mm × 168 mm (9.96" × 5.12" × 6.61") (without lens)
Weight without lens	4.950 kg (10.910 lb.) (without lens)
Tripod mounting	UNC ¼"-20

Power system	
Power supply	12 V DC (10–15 V DC)



FLIR SC7600 Cooling Fan

P/N: 66103-0202

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Customer support

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Power system	
Power consumption (cooldown/stab)	30 W/25 W

Environmental data	
Operating temperature range	-20°C/+50°C (-4°F/131°F)
Bump	Operational 25G, IEC 68-2-29
Vibration	Operational 2G, IEC 68-2-26
Encapsulation	IP 54 (IEC 60529)

Radiometry/measurement	
Spectral range	1.5–5.5 µm
Thermal sensitivity/NETD	<25 mK (20 mK typical)
CNUCTM/HypercalTM	Yes
CLUT/extended linear response	No
Temperature measurement accuracy	±1°C (1.8°F) or ±1%
Maximum temperature without filter	300°C (572°F)
Well capacity (e-)	7 Me-
Filter wheel	4 slots for 1" filter 1 mm thick
Filter holding	Screw-in holder

Timings and signals	
SYNC IN	LVTTL
SYNC IN jitter	
SYNC IN active edge	Falling or rising edge
Delay between SYNC IN and integration	2.2–2.4 µs ITR
Delay between SYNC IN and top frame	1.8–2 µs ITR and IWR
Analog signals	1 × (-5 to 5 V) + 2 × (0–10 V)
TRIGGER IN	LVTTL
Video output	PAL or NTSC/composite or S-Video
Waveform generator	N/A

Ethernet	
GigE Vision	Yes

Camera link	
Connector type	1 × MDR26
Tap number	1 (A/B)
Bit depth	16 bpp

Radio	
Wi-Fi	N/A
Antenna	N/A

Shipping information	
Packaging, type	



FLIR SC7600 Cooling Fan

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Shipping information	
Packaging, weight	
Packaging, size	
EAN-13	7332558008003
UPC-12	845188008369
Country of origin	Sweden

Lenses	
Available optic 1	L0315 12 mm f/2
Available optic 2	L0116 25 mm f/2
Available optic 3	L0106 50 mm f/2
Available optic 4	L0118 100 mm f/2
Available optic 5	L0804 200 mm f/2
Available optic 6	L0120 Close up x1 f/2
Available optic 7	L0120E Close up x3 f/2
Available optic 8	L0905 Close up x1 wd 30cm
Available optic 9	L0709T 27 mm BB f/3
Available optic 10	L0608T 50 mm BB f/3
Available optic 11	L0604T 100 mm BB f/3
Available optic 12	L0701 200 mm BB f/3
Available optic 13	

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Website

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Detector/image	
Detector type	Focal plane array (FPA)
Sensor material	InSb
IR resolution	640 × 512
Detector pitch	15 μm
f-number	f/2.5 or f/4
Optical interface	M80 thread
Lens identification	N/A
Windowing	320 × 256/160 × 128
Arbitrary size windowing (down to)	48 × 4
Arbitrary size windowing (steps)	Horizontal: ≥48, steps of 16 pixels Vertical: ≥4, steps of 4 pixels
Maximum image frequency (full frame)	100 Hz
Maximum image frequency	3425 Hz
Maximum frame rate	100 Hz @ 640 × 512 @ 20 μs /IWR 328 @ 320 × 256 @ 20 μs/IWR 870 Hz @ 160 × 128 @ 10 μs/IWR 3425 Hz @ 48 × 4 @ 10 μs/IWR
Integration time range	0.4–20 000 μs
Integration time step	200 ns
Integration time mode	IWR/ITR
Digital output	GigE/Camlink base
Cooler type	Closed-cycle (rotary) Stirling cooler
Cooling temperature	77 K
Operability	>99.5%

Physical data	
Size (L × W × H)	253 mm × 130 mm × 168 mm (9.96" × 5.12" × 6.61") (without lens)
Weight without lens	4.950 kg (10.910 lb.) (without lens)
Tripod mounting	UNC ¼"-20

Power system	
Power supply	12 V DC (10–15 V DC)



FLIR SC7650

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Website

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Power system	
Power consumption (cooldown/stab)	30 W/25 W

Environmental data	
Operating temperature range	-20°C/+50°C (-4°F/131°F)
Bump	Operational 25G, IEC 68-2-29
Vibration	Operational 2G, IEC 68-2-26
Encapsulation	IP 54 (IEC 60529)

Radiometry/measurement	
Spectral range	1.5–5.5 µm
Thermal sensitivity/NETD	<25 mK (20 mK typical)
CNUCTM/HypercalTM	Yes
CLUT/extended linear response	No
Temperature measurement accuracy	±1°C (1.8°F) or ±1%
Maximum temperature without filter	300°C (572°F)
Well capacity (e-)	7 Me-
Filter wheel	4 slots for 1" filter 1 mm thick
Filter holding	Screw-in holder

Timings and signals	
SYNC IN	LVTTL
SYNC IN jitter	
SYNC IN active edge	
Delay between SYNC IN and integration	
Delay between SYNC IN and top frame	
Analog signals	1 × (-5 to 5 V) + 2 × (0–10 V)
TRIGGER IN	LVTTL
Video output	PAL or NTSC/composite or S-Video
Waveform generator	N/A

Ethernet	
GigE Vision	Yes

Camera link	
Connector type	1 × MDR26
Tap number	1 (A/B)
Bit depth	16 bpp

Radio	
Wi-Fi	N/A
Antenna	N/A

Shipping information	
Packaging, type	



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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Shipping information	
Packaging, weight	
Packaging, size	
EAN-13	7332558008010
UPC-12	845188008376
Country of origin	Sweden

Lenses	
Available optic 1	L0315 12 mm f/2
Available optic 2	L0116 25 mm f/2
Available optic 3	L0106 50 mm f/2
Available optic 4	L0118 100 mm f/2
Available optic 5	L0804 200 mm f/2
Available optic 6	L0120 Close up x1 f/2
Available optic 7	L0120E Close up x3 f/2
Available optic 8	L0905 Close up x1 wd 30cm
Available optic 9	
Available optic 10	
Available optic 11	
Available optic 12	
Available optic 13	

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Website

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Detector/image	
Detector type	Focal plane array (FPA)
Sensor material	InSb
IR resolution	640 × 512
Detector pitch	15 μm
f-number	f/2.5 or f/4
Optical interface	M80 thread
Lens identification	N/A
Windowing	320 × 256/160 × 128
Arbitrary size windowing (down to)	48 × 4
Arbitrary size windowing (steps)	Horizontal: ≥48, steps of 16 pixels Vertical: ≥4, steps of 4 pixels
Maximum image frequency (full frame)	100 Hz
Maximum image frequency	3425 Hz
Maximum frame rate	100 Hz @ 640 × 512 @ 20 μs /IWR 328 @ 320 × 256 @ 20 μs/IWR 870 Hz @ 160 × 128 @ 10 μs/IWR 3425 Hz @ 48 × 4 @ 10 μs/IWR
Integration time range	0.4–20 000 μs
Integration time step	200 ns
Integration time mode	IWR/ITR
Digital output	GigE/Camlink base
Cooler type	Closed-cycle (rotary) Stirling cooler
Cooling temperature	77 K
Operability	>99.5%

Physical data	
Size (L × W × H)	253 mm × 130 mm × 168 mm (9.96" × 5.12" × 6.61") (without lens)
Weight without lens	4.950 kg (10.910 lb.) (without lens)
Tripod mounting	UNC ¼"-20

Power system	
Power supply	12 V DC (10–15 V DC)



FLIR SC7650 E

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Website

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Power system	
Power consumption (cooldown/stab)	30 W/25 W

Environmental data	
Operating temperature range	-20°C/+50°C (-4°F/131°F)
Bump	Operational 25G, IEC 68-2-29
Vibration	Operational 2G, IEC 68-2-26
Encapsulation	IP 54 (IEC 60529)

Radiometry/measurement	
Spectral range	1.5–5.5 µm
Thermal sensitivity/NETD	<25 mK (20 mK typical)
CNUCTM/HypercalTM	Yes
CLUT/extended linear response	No
Temperature measurement accuracy	±1°C (1.8°F) or ±1%
Maximum temperature without filter	300°C (572°F)
Well capacity (e-)	7 Me-
Filter wheel	4 slots for 1" filter 1 mm thick
Filter holding	Screw-in holder

Timings and signals	
SYNC IN	LVTTL
SYNC IN jitter	
SYNC IN active edge	
Delay between SYNC IN and integration	
Delay between SYNC IN and top frame	
Analog signals	1 × (-5 to 5 V) + 2 × (0–10 V)
TRIGGER IN	LVTTL
Video output	PAL or NTSC/composite or S-Video
Waveform generator	N/A

Ethernet	
GigE Vision	Yes

Camera link	
Connector type	1 × MDR26
Tap number	1 (A/B)
Bit depth	16 bpp

Radio	
Wi-Fi	N/A
Antenna	N/A

Shipping information	
Packaging, type	



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Shipping information	
Packaging, weight	
Packaging, size	
EAN-13	7332558008034
UPC-12	845188008383
Country of origin	Sweden

Lenses	
Available optic 1	L0315 12 mm f/2
Available optic 2	L0116 25 mm f/2
Available optic 3	L0106 50 mm f/2
Available optic 4	L0118 100 mm f/2
Available optic 5	L0804 200 mm f/2
Available optic 6	L0120 Close up x1 f/2
Available optic 7	L0120E Close up x3 f/2
Available optic 8	L0905 Close up x1 wd 30cm
Available optic 9	
Available optic 10	
Available optic 11	
Available optic 12	
Available optic 13	

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Detector/image	
Detector type	Focal plane array (FPA)
Sensor material	MCT
IR resolution	640 × 512
Detector pitch	15 μm
f-number	f/3
Optical interface	M80 thread
Lens identification	N/A
Windowing	320 × 256/160 × 128
Arbitrary size windowing (down to)	132 × 3
Arbitrary size windowing (steps)	Horizontal: ≥132 steps of 4 pixels Vertical: ≥3 steps
Maximum image frequency (full frame)	115 Hz
Maximum image frequency	2939 Hz
Maximum frame rate	115 Hz @ 640 × 512 @ 20 μs/IWR 412 Hz @ 320 × 256 @ 20 μs/IWR 1165 Hz @ 160 × 128 @ 10 μs/IWR 2939 Hz @ 132 × 3 @ 10 μs/IWR
Integration time range	1–20 000 μs
Integration time step	200 ns
Integration time mode	ITR/IWR
Digital output	GigE/Camlink base
Cooler type	Closed-cycle (rotary) Stirling cooler
Cooling temperature	90 K
Operability	>99%

Physical data	
Size (L × W × H)	253 mm × 130 mm × 168 mm (9.96" × 5.12" × 6.61") (without lens)
Weight without lens	4.950 kg (10.910 lb.) (without lens)
Tripod mounting	UNC ¼"-20

Power system	
Power supply	12 V DC (10–15 V DC)



FLIR SC7700

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Customer support

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Power system	
Power consumption (cooldown/stab)	30 W/25 W

Environmental data	
Operating temperature range	-20°C/+50°C (-4°F/131°F)
Bump	Operational 25G, IEC 68-2-29
Vibration	Operational 2G, IEC 68-2-26
Encapsulation	IP 54 (IEC 60529)

Radiometry/measurement	
Spectral range	1.5–5.5 μm
Thermal sensitivity/NETD	<25 mK (18 mK typical)
CNUCTM/HypercalTM	Yes
CLUT/extended linear response	No
Temperature measurement accuracy	$\pm 1^\circ\text{C}$ (1.8°F) or $\pm 1\%$
Maximum temperature without filter	150°C (302°F)
Well capacity (e-)	6.36 Me- (ITR) 4.99 Me- (IWR)
Filter wheel	4 slots for 1" filter 1 mm thick
Filter holding	Screw-in holder

Timings and signals	
SYNC IN	LVTTL
SYNC IN jitter	
SYNC IN active edge	Falling or rising edge
Delay between SYNC IN and integration	1.05 μs (jitter ± 50 ns)
Delay between SYNC IN and top frame	1.05 μs (jitter ± 50 ns)
Analog signals	1 \times (-5 to 5 V) + 2 \times (0–10 V)
TRIGGER IN	LVTTL
Video output	PAL or NTSC/composite or S-Video
Waveform generator	N/A

Ethernet	
GigE Vision	Yes

Camera link	
Connector type	1 \times MDR26
Tap number	1 (A/B)
Bit depth	16 bpp

Radio	
Wi-Fi	N/A
Antenna	N/A

Shipping information	
Packaging, type	



FLIR SC7700

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Shipping information	
Packaging, weight	
Packaging, size	
EAN-13	7332558008041
UPC-12	845188008390
Country of origin	Sweden

Lenses	
Available optic 1	L0315 12 mm f/2
Available optic 2	L0116 25 mm f/2
Available optic 3	L0106 50 mm f/2
Available optic 4	L0118 100 mm f/2
Available optic 5	L0804 200 mm f/2
Available optic 6	L0120 Close up x1 f/2
Available optic 7	L0120E Close up x3 f/2
Available optic 8	L0905 Close up x1 wd 30cm
Available optic 9	L0709T 27 mm BB f/3
Available optic 10	L0608T 50 mm BB f/3
Available optic 11	L0604T 100 mm BB f/3
Available optic 12	L0701 200 mm BB f/3
Available optic 13	

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Detector/image	
Detector type	Focal plane array (FPA)
Sensor material	MCT
IR resolution	640 × 512
Detector pitch	15 μm
f-number	f/2 or f/4
Optical interface	M80 thread
Lens identification	N/A
Windowing	320 × 256/160 × 128
Arbitrary size windowing (down to)	132 × 3
Arbitrary size windowing (steps)	Horizontal: ≥132 steps of 4 pixels Vertical: ≥3 steps
Maximum image frequency (full frame)	115 Hz
Maximum image frequency	2939 Hz
Maximum frame rate	115 Hz @ 640 × 512 @ 20 μs/IWR 412 Hz @ 320 × 256 @ 20 μs/IWR 1165 Hz @ 160 × 128 @ 10 μs/IWR 2939 Hz @ 132 × 3 @ 10 μs/IWR
Integration time range	1–20 000 μs
Integration time step	200 ns
Integration time mode	ITR/IWR
Digital output	GigE/Camlink base
Cooler type	Closed-cycle (rotary) Stirling cooler
Cooling temperature	90 K
Operability	>99%

Physical data	
Size (L × W × H)	253 mm × 130 mm × 168 mm (9.96" × 5.12" × 6.61") (without lens)
Weight without lens	4.950 kg (10.910 lb.) (without lens)
Tripod mounting	UNC ¼"-20

Power system	
Power supply	12 V DC (10–15 V DC)



FLIR SC7700 MW

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Power system	
Power consumption (cooldown/stab)	30 W/25 W

Environmental data	
Operating temperature range	-20°C/+50°C (-4°F/131°F)
Bump	Operational 25G, IEC 68-2-29
Vibration	Operational 2G, IEC 68-2-26
Encapsulation	IP 54 (IEC 60529)

Radiometry/measurement	
Spectral range	3.7–4.8 μm
Thermal sensitivity/NETD	<25 mK (18 mK typical)
CNUCTM/HypercalTM	Yes
CLUT/extended linear response	No
Temperature measurement accuracy	±1°C (1.8°F) or ±1%
Maximum temperature without filter	150°C (302°F)
Well capacity (e-)	6.36 Me- (ITR) 4.99 Me- (IWR)
Filter wheel	4 slots for 1" filter 1 mm thick
Filter holding	Screw-in holder

Timings and signals	
SYNC IN	LVTTL
SYNC IN jitter	200 ns
SYNC IN active edge	Falling or rising edge
Delay between SYNC IN and integration	1.05 μs (jitter ±50 ns)
Delay between SYNC IN and top frame	1.05 μs (jitter ±50 ns)
Analog signals	1 × (-5 to 5 V) + 2 × (0–10 V)
TRIGGER IN	LVTTL
Video output	PAL or NTSC/composite or S-Video
Waveform generator	N/A

Ethernet	
GigE Vision	Yes

Camera link	
Connector type	1 × MDR26
Tap number	1 (A/B)
Bit depth	16 bpp

Radio	
Wi-Fi	N/A
Antenna	N/A

Shipping information	
Packaging, type	



FLIR SC7700 MW

P/N: 66401-0101

Revision

29700

Last modified

2015-10-16 07:11 UTC+1

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Shipping information	
Packaging, weight	
Packaging, size	
EAN-13	7332558008058
UPC-12	845188008406
Country of origin	Sweden

Lenses	
Available optic 1	L0315 12 mm f/2
Available optic 2	L0116 25 mm f/2
Available optic 3	L0106 50 mm f/2
Available optic 4	L0118 100 mm f/2
Available optic 5	L0804 200 mm f/2
Available optic 6	L0120 Close up x1 f/2
Available optic 7	L0120E Close up x3 f/2
Available optic 8	L0905 Close up x1 wd 30cm
Available optic 9	
Available optic 10	
Available optic 11	
Available optic 12	
Available optic 13	

P/N: 66501-0101

Revision

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Website

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Detector/image	
Detector type	Focal plane array (FPA)
Sensor material	MCT
IR resolution	640 × 512
Detector pitch	16µm
f-number	f/2
Optical interface	M80 thread
Lens identification	N/A
Windowing	320 × 256/160 × 128
Arbitrary size windowing (down to)	48 × 3
Arbitrary size windowing (steps)	Horizontal: ≥48 Vertical: ≥3
Maximum image frequency (full frame)	115 Hz
Maximum image frequency	58820 Hz
Maximum frame rate	115 Hz @ 640 × 512 @ 1 µs 430 Hz @ 320 × 256 @ 1 µs 1560 Hz @ 160 × 128 @ 1 µs 58 820 Hz @ 48 × 3 @ 1 µs
Integration time range	0.2 µs to 20 000 µs
Integration time step	100 ns
Integration time mode	ITR
Digital output	GigE/Camlink base
Cooler type	Closed-cycle (rotary) Stirling cooler
Cooling temperature	80 K
Operability	>99%

Physical data	
Size (L × W × H)	253 mm × 130 mm × 168 mm (9.96" × 5.12" × 6.61") (without lens)
Weight without lens	4.950 kg (10.910 lb.) (without lens)
Tripod mounting	UNC ¼"-20

Power system	
Power supply	12 V DC (10–15 V DC)
Power consumption (cooldown/stab)	80 W/50 W



FLIR SC7750 LW

P/N: 66501-0101

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Website

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Environmental data	
Operating temperature range	-20°C/+50°C (-4°F/131°F)
Bump	Operational 25G, IEC 68-2-29
Vibration	Operational 2G, IEC 68-2-26
Encapsulation	IP 54 (IEC 60529)

Radiometry/measurement	
Spectral range	8–9.4 μm
Thermal sensitivity/NETD	<35 mK
CNUCTM/HypercalTM	Yes
CLUT/extended linear response	No
Temperature measurement accuracy	±2°C (3.6°F) or ±2%
Maximum temperature without filter	80°C (176°F)
Well capacity (e-)	10 Me-
Filter wheel	4 slots for 1" filter 1 mm thick
Filter holding	Screw-in holder

Timings and signals	
SYNC IN	LVTTL
SYNC IN jitter	
SYNC IN active edge	Falling or rising edge
Delay between SYNC IN and integration	
Delay between SYNC IN and top frame	
Analog signals	1 × (-5 to 5 V) + 2 × (0–10 V)
TRIGGER IN	LVTTL
Video output	PAL or NTSC/composite or S-Video
Waveform generator	N/A

Ethernet	
GigE Vision	Yes

Camera link	
Connector type	1 × MDR26
Tap number	1 (A/B)
Bit depth	16 bpp

Radio	
Wi-Fi	N/A
Antenna	N/A

Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558008065



FLIR SC7750 LW

P/N: 66501-0101

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Shipping information	
UPC-12	845188008413
Country of origin	Sweden

Lenses	
Available optic 1	L0306V 12 mm f/2
Available optic 2	L0324V 25 mm f/2
Available optic 3	L0302V 50 mm f/2
Available optic 4	L0201V 100 mm f/2
Available optic 5	
Available optic 6	
Available optic 7	
Available optic 8	
Available optic 9	
Available optic 10	
Available optic 11	
Available optic 12	
Available optic 13	

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FLIR T&M instruments

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P/N: CM42

Revision

42519

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Website

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Customer support

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General description	
Part number	CM42
Part name	Professional 400A TRMS AC Clamp Meter
<p>The FLIR CM42 Clamp Meter is a professional and affordable true RMS meter designed for commercial and residential electricians. The FLIR CM42 features AC clamp measurement to meet your unique needs. The meter is equipped with a bright backlit display for ease of use inside electrical panels. Accu-Tip technology delivers amperage measurements on smaller-gauged wires more accurately—to a 10th of a digit. It offers MAX/MIN/AVG recording, frequency measurement, and electrical field detection to help you determine voltage presence and relative strength of the field. Made with an over-molded, easy-to-grip design, the FLIR CM42 clamp meter is durable enough to withstand a 2 m drop, and the slim form factor is convenient to carry in your toolbag anywhere you go.</p>	
<p>Professional performance at an affordable price:</p> <ul style="list-style-type: none"> Operates at -10 to 50°C (14–122°F). Built to accept up to a 30 mm conductor. True RMS measurements. 	
<p>Features: DC voltage, AC voltage (digital low-pass filter/VFD), clamp-on AC current, Accu-Tip clamp-on AC current, frequency, resistance, diode.</p>	

Electrical measurement	
True RMS voltage	Yes
Auto-ranging	Yes
DC V range	600.0 V
DC V accuracy	±1.0% + 5 digits
AC V range with digital low-pass filter	600.0 V
AC V range with digital low-pass filter: accuracy	±1.0% + 5 digits (50–60 Hz)
Resistance range	600.0 Ω, 6.000 kΩ, 60.00 kΩ
Resistance	±1.0% + 5 digits
Continuity	600.0 Ω ± 1.0% + 5 digits
Diode	2.000 V ± 1.5% + 5 digits

Low-current Accu-Tip clamp-on AC A	
Range (50–60 Hz)	60.00 A
Accuracy ^{1 2 3} (50–60 Hz)	±2.% + 5 digits

1. Induced error from an adjacent current-carrying conductor is <0.06 A/A.

2. Add 10 digits to the specified accuracy at <4 A.

3. Position of the conductor at the center of the Accu-Tip area. Conductor size must not exceed 8.8 mm.

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Standard clamp-on AC A	
Range (50–60 Hz)	60.00 A, 400.0 A
Accuracy ^{1 2 3 4} (50–60 Hz)	±2.0% + 5 digits
Range (60–400 Hz)	60.00 A, 400.0 A
Accuracy ^{5 6 7 8} (60–400 Hz)	±3.0% + 5 digits

Line level frequency	
Function (5.00–999.9 Hz)	600 V
Sensitivity ⁹ (Sine RMS) (5.00–999.9 Hz)	50 V
Function (50.00–400.0 Hz)	60 A (low-current mode)
Sensitivity ¹⁰ (Sine RMS) (50.00–400.0 Hz)	40 A
Function (50.00–400.0 Hz)	60 A, 400 A
Sensitivity ¹¹ (Sine RMS) (50.00–400.0 Hz)	40 A
Accuracy	1% + 5 digits

Non-contact EF voltage detection	
Typical voltage (tolerance: 10–36 V)	20 V
Bar graph indication	-
Typical voltage (tolerance: 23–83 V)	55 V
Bar graph indication	--
Typical voltage (tolerance: 59–165 V)	110 V
Bar graph indication	---
Typical voltage (tolerance: 124–330 V)	220 V
Bar graph indication	----
Typical voltage (tolerance: 250–600 V)	440 V
Bar graph indication	-----
Indication	Number of bar graph segments and audible beep tones proportional to the detected field strength
Detection frequency	50/60 Hz
Detector	Located inside the top of the stationary jaw
Additional measurement functions	Data hold, MIN/MAX/AVG, backlit LCD

General	
Jaw opening	30 mm (1.2 in.) maximum
Display counts	6000
Measuring rate	5 times per second nominal

1. Induced error from an adjacent current-carrying conductor is <0.06 A/A.
2. Specified accuracy is for measurements made at the jaw center. When the conductor is not positioned at the jaw center, add 2% to the specified accuracy for position errors.
3. Add 10 digits to the specified accuracy at <6 A.
4. Add 3% to the accuracy specification for a crest factor of between 1.0 and 2.0. If the crest factor is >2.0, the reading may not meet specified tolerances.
5. Induced error from an adjacent current-carrying conductor is <0.06 A/A.
6. Specified accuracy is for measurements made at the jaw center. When the conductor is not positioned at the jaw center, add 2% to the specified accuracy for position errors.
7. Add 10 digits to the specified accuracy at <6 A.
8. Add 3% to the accuracy specification for a crest factor of between 1.0 and 2.0. If the crest factor is >2.0, the reading may not meet specified tolerances.
9. DC bias, if any, not more than 50% of sine RMS.
10. DC bias, if any, not more than 50% of sine RMS.
11. DC bias, if any, not more than 50% of sine RMS.



CM42

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

General	
Calibration cycle	1 year calibration cycle recommended
Auto power off	32 minutes of inactivity
Power source	2 × 1.5 V AAA alkaline batteries

Environmental data	
Operational temperature	-10 to +50°C (14–122°F) (non-condensing) 10–30°C (50–86°F) (≤80% relative humidity (RH)) 30–40°C (86–104°F) (≤75% RH) 40–50°C (104–122°F) (≤45% RH)
Storage temperature	-20 to +60°C (4–140°F)
Relative humidity	80% maximum RH up to 31°C (88°F) decreasing linearly to 50% maximum RH at 50°C (122°F)
Temperature coefficient	0.15 × (specified accuracy)/°C, @ 0°C (32°F) to 18°C (64.4°F) or 28°C (82.4°F) to 50°C (122°F), or as otherwise specified
Operating altitude	2000 m (6562 ft.) maximum
Pollution degree	2

Physical data	
Dimensions (L × W × H)	217 mm × 76 mm × 37 mm (8.5 in. × 3.0 in. × 1.5 in.)
Weight	186 g (6.6 oz.)

Warranty	
Warranty	FLIR Limited Lifetime Warranty with product registration

Certifications	
Certifications	CE, cULus
Safety category rating	EN 61010-1 CAT IV—300 V, CAT III—600 V, EN 61010-2-032

Shipping information	
Packaging type	Retail color box
Packaging contents	CM4x, 2 × AAA batteries, premium CAT IV silicone test leads, FLIR carrying pouch, quick start guide, warranty registration card
Packaging weight	0.8 kg (1.8 lb.)
Packaging dimensions (H × W × L)	33 cm × 14 cm × 10.7 cm (13 in. × 5.5 in. × 4.3 in.)
Master carton weight	10.6 kg (23.4 lb.)
Master carton dimensions (H × W × L)	62.3 cm × 29.3 cm × 36.1 cm (24.6 in. × 11.6 in. × 14.3 in.)
Master carton quantity	12
UPC	793950370421
EAN	0793950370421
Country of origin	Taiwan
Tariff code	9030.31.0000



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Technical support	
Website	http://support.flir.com
E-mail	TMSupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Accessories	
TA55	AC Current Line Splitter (120 V, US plug)
TA70	CAT IV Insulated Alligator Probes
TA80	CAT IV Silicone Test Leads

P/N: CM44

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Website

<http://www.flir.com>

Customer support

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General description	
Part number	CM44
Part name	Professional 400A TRMS AC Clamp Meter + Type K
<p>The FLIR CM44 Clamp Meter is a professional and affordable true RMS meter designed for commercial and residential electricians. The FLIR CM44 features AC clamp measurement to meet your unique needs. The meter is equipped with a bright backlit display for ease of use inside electrical panels. Accu-Tip technology delivers amperage measurements on smaller-gauged wires more accurately—to a 10th of a digit. It offers MAX/MIN/AVG recording, frequency measurement, and electrical field detection to help you determine voltage presence and relative strength of the field. Made with an over-molded, easy-to-grip design, the FLIR CM44 clamp meter is durable enough to withstand a 2 m drop, and the slim form factor is convenient to carry in your toolbag anywhere you go.</p>	
<p>Professional performance at an affordable price:</p> <ul style="list-style-type: none"> • Operates at -10 to 50°C (14–122°F). • Built to accept up to a 30 mm conductor. • True RMS measurements. 	
<p>Features: DC voltage, AC voltage (digital low-pass filter/VFD), clamp-on AC current, Accu-Tip clamp-on AC current, frequency, resistance, capacitance, diode, DC μA, temperature.</p>	

Electrical measurement	
True RMS voltage	Yes
Auto-ranging	Yes
DC V range	600.0 V
DC V accuracy	$\pm 1.0\%$ + 5 digits
AC V range with digital low-pass filter	600.0 V
AC V range with digital low-pass filter: accuracy	$\pm 1.0\%$ + 5 digits (50–60 Hz)
Peak RMS inrush current (AC V and AC A)	
Response	80 ms to >90%
Resistance range	600.0 Ω , 6.000 k Ω , 60.00 k Ω
Resistance	$\pm 1.0\%$ + 5 digits
Continuity	600.0 Ω $\pm 1.0\%$ + 5 digits
Diode	2.000 V $\pm 1.5\%$ + 5 digits
Capacitance	200.0 μ F, 2500 μ F $\pm 2.0\%$ + 4 digits ¹
DC μ A	200.0 μ A, 2000 μ A

1. Accuracy specified for film capacitors or better.



CM44

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Electrical measurement	
DC μ A accuracy (burden voltage)	$\pm 1.0\% + 5$ digits (3.5 mV/ μ A)

Temperature	
Range ¹ , accuracy ²	-40.0 to 99.9°C, $\pm 1.0\% + 1^\circ\text{C}$
Range ³ , accuracy ⁴	100–400°C, $\pm 1.0\% + 1^\circ\text{C}$
Range ⁵ , accuracy ⁶	-40 to 99.9°F, $\pm 1.0\% + 2^\circ\text{F}$
Range ⁷ , accuracy ⁸	100–752°F, $\pm 1.0\% + 2^\circ\text{F}$

Low-current Accu-Tip clamp-on AC A	
Range (50–60 Hz)	60.00 A
Accuracy ^{9 10 11 12} (50–60 Hz)	$\pm 2.0\% + 5$ digits

Standard clamp-on AC A	
Range (50 Hz~60 Hz)	60.00 A, 400.0 A
Accuracy ^{13 14 15 16} (50–60 Hz)	$\pm 2.0\% + 5$ digits
Range (60–400 Hz)	60.00 A, 400.0 A
Accuracy ^{17 18 19 20} (60–400 Hz)	$\pm 3.0\% + 5$ digits

Line level frequency	
Function (5.00–999.9 Hz)	600 V
Sensitivity ²¹ (Sine RMS) (5.00–999.9 Hz)	50 V
Function (50.00 Hz~400.0 Hz)	60 A (low-current mode)

- Supplied thermocouple is rated for -20 to 250°C (-4 to 482°F) only, and therefore not rated for the entire specified temperature range of the meter.
- K-type thermocouple range and accuracy not included. Accuracies assume the meter interior has the same temperature as the ambient temperature for correct junction voltage compensation. Allow adequate time for stabilization for significant changes of ambient temperature. Up to an hour, for changes >5°C (9°F), may be required.
- Supplied thermocouple is rated for -20 to 250°C (-4 to 482°F) only, and therefore not rated for the entire specified temperature range of the meter.
- K-type thermocouple range and accuracy not included. Accuracies assume the meter interior has the same temperature as the ambient temperature for correct junction voltage compensation. Allow adequate time for stabilization for significant changes of ambient temperature. Up to an hour, for changes >5°C (9°F), may be required.
- Supplied thermocouple is rated for -20 to 250°C (-4 to 482°F) only, and therefore not rated for the entire specified temperature range of the meter.
- K-type thermocouple range and accuracy not included. Accuracies assume the meter interior has the same temperature as the ambient temperature for correct junction voltage compensation. Allow adequate time for stabilization for significant changes of ambient temperature. Up to an hour, for changes >5°C (9°F), may be required.
- Supplied thermocouple is rated for -20 to 250°C (-4 to 482°F) only, and therefore not rated for the entire specified temperature range of the meter.
- K-type thermocouple range and accuracy not included. Accuracies assume the meter interior has the same temperature as the ambient temperature for correct junction voltage compensation. Allow adequate time for stabilization for significant changes of ambient temperature. Up to an hour, for changes >5°C (9°F), may be required.
- Induced error from adjacent current-carrying conductor <0.06 A/A.
- Specified with relative/DC zero mode applied to offset non-zero residual readings.
- Add 10 digits to the specified accuracy at <4nA.
- Position the conductor at the center of the Accu-Tip area. Conductor size must not exceed 8.8mm.
- Induced error from an adjacent current-carrying conductor is <0.06 A/A.
- Specified accuracy is for measurement made at the jaw center. When the conductor is not positioned at the jaw center, add 2% to the specified accuracy for position errors.
- Add 10 digits to the specified accuracy at <6 A.
- Add 3% to the accuracy specification for a crest factor of between 1.0 and 2.0. If the crest factor is >2.0, the reading may not meet specified tolerances.
- Induced error from an adjacent current-carrying conductor is <0.06 A/A.
- Specified accuracy is for measurement made at the jaw center. When the conductor is not positioned at the jaw center, add 2% to the specified accuracy for position errors.
- Add 10 digits to the specified accuracy at <6 A.
- Add 3% to the accuracy specification for a crest factor of between 1.0 and 2.0. If the crest factor is >2.0, the reading may not meet specified tolerances.
- DC bias, if any, not more than 50% of sine RMS.

P/N: CM44

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Website

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<http://support.flir.com>

Line level frequency	
Sensitivity ¹ (Sine RMS) (50.00–400.0 Hz)	40 A
Function (50.00 Hz–400.0 Hz)	60 A, 400 A
Sensitivity ² (Sine RMS) (50.00–400.0 Hz)	40 A
Accuracy	1% + 5 digits

Non-Contact EF Voltage Detection	
Typical voltage (tolerance: 10–36 V)	20 V
Bar graph indication	-
Typical voltage (tolerance: 23–83 V)	55 V
Bar graph indication	--
Typical voltage (tolerance: 59–165 V)	110 V
Bar graph indication	---
Typical voltage (tolerance: 124–330 V)	220 V
Bar graph indication	----
Typical voltage (tolerance: 250–600 V)	440 V
Bar graph indication	-----
Indication	Number of bar graph segments and audible beep tones proportional to the detected field strength
Detection frequency	50/60 Hz
Detector:	Located Inside the top of the stationary jaw
Additional measurement functions	Data hold, MIN/MAX/AVG, backlit LCD, 80 ms peak RMS inrush current mode, relative/DC zero

General	
Jaw opening	30 mm (1.2 in.) maximum
Display counts	6000
Measuring rate	5 times per second nominal
Calibration cycle	1 year calibration cycle recommended
Auto power off	32 minutes of inactivity
Power source	2 × 1.5 V AAA alkaline batteries

Environmental data	
Operational temperature	-10 to +50°C (14–122°F) (non-condensing) 10–30°C (50–86°F) (≤80% relative humidity (RH)) 30–40°C (86–104°F) (≤75% RH) 40–50°C (104–122°F) (≤45% RH)
Storage temperature	-20 to +60°C (4–140°F)
Relative humidity	80% maximum RH up to 31°C (88°F) decreasing linearly to 50% maximum RH at 50°C (122°F)
Temperature coefficient	0.15 × (specified accuracy)/°C, @ 0°C (32°F) to 18°C (64.4°F) or 28°C (82.4°F) to 50°C (122°F), or as otherwise specified
Operating altitude	2000 m (6562 ft.) maximum
Pollution degree	2

1. DC bias, if any, not more than 50% of sine RMS.
2. DC bias, if any, not more than 50% of sine RMS.



CM44

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Physical data	
Dimensions (L x W x H)	217 mm x 76 mm x 37 mm (8.5 in. x 3.0 in. x 1.5 in.)
Weight	186 g (6.6 oz.)

Warranty	
Warranty	FLIR Limited Lifetime Warranty with product registration

Certifications	
Certifications	CE, cULus
Safety category rating	EN 61010-1 CAT IV—300 V, CAT III—600 V, EN 61010-2-032

Shipping information	
Packaging type	Retail color box
Packaging contents	CM4x, 2 x AAA batteries, premium CAT IV silicone test leads, type-K thermocouple, FLIR carrying pouch, quick start guide, warranty registration card
Packaging weight	0.8 kg (1.8 lb.)
Packaging dimensions (H x W x L)	33 cm x 14 cm x 10.7 cm (13 in. x 5.5 in. x 4.3 in.)
Master carton weight	10.6 kg (23.4 lb.)
Master carton dimensions (H x W x L)	62.3 cm x 29.3 cm x 36.1 cm (24.6 in. x 11.6 in. x 14.3 in.)
Master carton quantity	12
UPC	793950370445
EAN	0793950370445
Country of origin	Taiwan
Tariff code	9030.31.0000

Technical support	
Website	http://support.flir.com
E-mail	TMSupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Accessories	
TA55	AC Current Line Splitter (120 V, US plug)
TA60	Thermocouple Probe with Adapter
TA70	CAT IV Insulated Alligator Probes
TA80	CAT IV Silicone Test Leads

P/N: CM46

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
Part number	CM46
Part name	Professional 400A TRMS AC/DC Clamp Meter + Type K
<p>The FLIR CM46 Clamp Meter is a professional and affordable true RMS meter designed for commercial and residential electricians. The FLIR CM46 offers both AC and DC measurement to meet your unique needs. The meter is equipped with a bright backlit display for ease of use inside electrical panels. Accu-Tip technology delivers amperage measurements on smaller-gauged wires more accurately—to a 10th of a digit. It offers MAX/MIN/AVG recording, frequency measurement, and electrical field detection to help you determine voltage presence and relative strength of the field. Made with an over-molded, easy-to-grip design, the FLIR CM46 clamp meter is durable enough to withstand a 2 m drop, and the slim form factor is convenient to carry in your toolbag anywhere you go.</p>	
<p>Professional performance at an affordable price:</p> <ul style="list-style-type: none"> • Operates at -10 to 50°C (14–122°F). • Built to accept up to a 30 mm conductor. • True RMS measurements. 	
<p>Features: DC voltage, AC voltage (digital low-pass filter/VFD), AC + DC voltage (digital low-pass filter/VFD), clamp-on AC current, Accu-Tip clamp-on AC current, clamp-On DC current, Accu-Tip clamp-on DC current, frequency, resistance, capacitance, diode, DC μA, temperature.</p>	

Electrical measurement	
True RMS voltage and current	Yes
Auto-ranging	Yes
DC V range	600.0 V
DC V accuracy	$\pm 1.0\%$ + 5 digits
AC V range with digital low-pass filter	600.0 V
AC V range with digital low-pass filter: accuracy	$\pm 1.0\%$ + 5 digits (50–60 Hz)
DC + AC V with digital low-pass filter	600.0 V
DC + AC V with digital low-pass filter: accuracy	$\pm 1.2\%$ + 7 digits (50–60 Hz)
Peak RMS inrush current	
Response	80 ms to $>90\%$
Resistance range	600.0 Ω , 6.000 k Ω , 60.00 k Ω
Resistance	$\pm 1.0\%$ + 5 digits
Continuity	600.0 Ω $\pm 1.0\%$ + 5 digits
Diode	2.000 V $\pm 1.5\%$ + 5 digits



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Electrical measurement	
Capacitance	200.0 μ F, 2500 μ F \pm 2.0% + 4 digits ¹
DC μ A	200.0 μ A, 2000 μ A
DC μ A accuracy (burden voltage)	\pm 1.0% + 5 digits (3.5 mV/ μ A)

Temperature	
Range ² , accuracy ³	-40.0 to 99.9°C, \pm 1.0% + 1°C
Range ⁴ , accuracy ⁵	100-400°C, \pm 1.0% + 1°C
Range ⁶ , accuracy ⁷	-40 to 99.9°F, \pm 1.0% + 2°F
Range ⁸ , accuracy ⁹	100-752°F, \pm 1.0% + 2°F

Low-current Accu-Tip clamp-on AC A	
Range (50-60 Hz)	60.00 A
Accuracy ^{10 11 12 13} (50-60 Hz)	\pm 1.5% + 5 digits

Low-current Accu-Tip clamp-on DC A	
Range	60.00 A
Accuracy ^{14 15 16 17} (50-60 Hz)	\pm 2.0% + 5 digits

Low-current Accu-Tip clamp-on DC A + AC A	
Range (50-60 Hz)	60.00 A
Accuracy ^{18 19 20 21} (50-60 Hz)	\pm 2.0% + 7 digits

Standard clamp-on AC A	
Range (50-60 Hz)	60.00 A, 400.0mA
Accuracy 1, 2, 3 (50-60 Hz)	\pm 1.8% + 5 digits

1. Accuracy specified for film capacitors or better.
2. Supplied thermocouple is rated for -20 to 250°C (-4 to 482°F) only, and therefore not rated for the entire specified temperature range of the meter.
3. K-type thermocouple range and accuracy not included. Accuracies assume the meter interior has the same temperature as the ambient temperature for correct junction voltage compensation. Allow adequate time for stabilization for significant changes of ambient temperature. Up to an hour, for changes >5°C (9°F), may be required.
4. Supplied thermocouple is rated for -20 to 250°C (-4 to 482°F) only, and therefore not rated for the entire specified temperature range of the meter.
5. K-type thermocouple range and accuracy not included. Accuracies assume the meter interior has the same temperature as the ambient temperature for correct junction voltage compensation. Allow adequate time for stabilization for significant changes of ambient temperature. Up to an hour, for changes >5°C (9°F), may be required.
6. Supplied thermocouple is rated for -20 to 250°C (-4 to 482°F) only, and therefore not rated for the entire specified temperature range of the meter.
7. K-type thermocouple range and accuracy not included. Accuracies assume the meter interior has the same temperature as the ambient temperature for correct junction voltage compensation. Allow adequate time for stabilization for significant changes of ambient temperature. Up to an hour, for changes >5°C (9°F), may be required.
8. Supplied thermocouple is rated for -20 to 250°C (-4 to 482°F) only, and therefore not rated for the entire specified temperature range of the meter.
9. K-type thermocouple range and accuracy not included. Accuracies assume the meter interior has the same temperature as the ambient temperature for correct junction voltage compensation. Allow adequate time for stabilization for significant changes of ambient temperature. Up to an hour, for changes 5°C (9°F), may be required.
10. Induced error from adjacent current-carrying conductor <0.01 A/A.
11. Specified with relative/DC zero mode applied to offset non-zero residual readings.
12. Add 10 digits to the specified accuracy at <4 A.
13. Position the conductor at the center of the Accu-Tip area. Conductor size must not exceed 8.8 mm.
14. Induced error from adjacent current-carrying conductor <0.01 A/A.
15. Specified with relative/DC zero mode applied to offset non-zero residual readings.
16. Add 10 digits to the specified accuracy @ < 4A.
17. Position the conductor at the center of the Accu-Tip area. Conductor size must not exceed 8.8 mm.
18. Induced error from adjacent current-carrying conductor <0.01 A/A.
19. Specified with relative/DC zero mode applied to offset non-zero residual readings.
20. Add 10 digits to the specified accuracy at <4 A.
21. Position the conductor at the center of the Accu-Tip area. Conductor size must not exceed 8.8 mm.



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Website

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Customer support

<http://support.flir.com>

Standard clamp-on AC A	
Range (100–400 Hz)	60.00 A, 400.0 A
Accuracy ^{1 2 3} (100–400 Hz)	±2.0% + 5 digits

Standard clamp-on DC A	
Range	60.00 A
Accuracy ^{4 5 6}	±2.0% + 5 digits

Standard clamp-on DC A + AC A	
Range (50–100 Hz)	60.00 A, 400.0 A
Accuracy ^{7 8 9} (50–100 Hz)	± (2.2% + 7 digits)
Range (100–400 Hz)	60.00 A, 400.0A
Accuracy ^{10 11 12} (100–400 Hz)	±2.7% + 7 digits

Line level frequency	
Function (5.00–999.9 Hz)	600 V
Sensitivity ¹³ (Sine RMS) (5.00–999.9 Hz)	50 V
Function (50.00–400.0 Hz)	60 A (low-current mode)
Sensitivity ¹⁴ (Sine RMS) (50.00–400.0 Hz)	40 A
Function (50.00–400.0 Hz)	60 A, 400 A
Sensitivity ¹⁵ (Sine RMS) (50.00–400.0 Hz)	40 A
Accuracy	1% + 5 digits

Non-contact EF voltage detection	
Typical voltage (tolerance: 10–36 V)	20 V
Bar graph indication	-
Typical voltage (tolerance: 23–83 V)	55 V
Bar graph indication	--
Typical Voltage (tolerance: 59–165 V)	110 V
Bar graph indication	---
Typical voltage (tolerance: 124–330 V)	220 V
Bar graph indication	----
Typical voltage (tolerance: 250–600 V)	440 V
Bar graph indication	-----
Indication	Number of bar graph segments & audible beep tones proportional to the detected field strength

1. Induced error from adjacent current-carrying conductor <0.01 A/A.
2. Add 10 digits to the specified accuracy at <9 A.
3. Add 3% to the accuracy specification for a crest factor of between 1.0 and 2.0. If the crest factor is >2.0, the reading may not meet specified tolerances.
4. Induced error from adjacent current-carrying conductor <0.01 A/A.
5. Specified with relative/DC zero mode applied to offset non-zero residual readings.
6. Add 10 digits to the specified accuracy at <9 A.
7. Induced error from adjacent current-carrying conductor <0.01 A/A.
8. Specified with relative/DC zero mode applied to offset non-zero residual readings.
9. Add 10 digits to the specified accuracy @ < 9A.
10. Induced error from adjacent current-carrying conductor <0.01 A/A.
11. Specified with relative/DC zero mode applied to offset non-zero residual readings.
12. Add 10 digits to the specified accuracy @ < 9A.
13. DC bias, if any, not more than 50% of sine RMS.
14. DC bias, if any, not more than 50% of sine RMS.
15. DC bias, if any, not more than 50% of sine RMS.



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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Non-contact EF voltage detection	
Detection frequency	50/60 Hz
Detector	Located Inside the top of the stationary jaw
Additional measurement functions	Data hold, MIN/MAX/AVG, backlit LCD, 80 ms peak RMS inrush current mode, relative/DC zero

General	
Jaw opening	30 mm (1.2 in.) maximum
Display counts	6000
Measuring rate	5 times per second nominal
Calibration cycle	1 year calibration cycle recommended
Auto power off	32 minutes of inactivity
Power source	2 × 1.5 V AAA alkaline batteries

Environmental Data	
Operational temperature	-10 to +50°C (14–122°F) (non-condensing) 10–30°C (50–86°F) (≤80% relative humidity (RH)) 30–40°C (86–104°F) (≤75% RH) 40–50°C (104–122°F) (≤45% RH)
Storage temperature	-20 to +60°C (4–140°F)
Relative humidity	80% maximum RH up to 31°C (88°F) decreasing linearly to 50% maximum RH at 50°C (122°F)
Temperature coefficient	0.15 × (specified accuracy)/°C, @ 0°C (32°F) to 18°C (64.4°F) or 28°C (82.4°F) to 50°C (122°F), or as otherwise specified
Operating altitude	2000 m (6562 ft.) maximum
Pollution degree	2

Physical data	
Dimensions (L × W × H)	223 mm × 76 mm × 37 mm (8.8 in. × 3.0 in. × 1.5 in.)
Weight:	243 g (8.3 oz.)

Warranty	
Warranty	FLIR Limited Lifetime Warranty with product registration

Certifications	
Certifications	CE, cULus
Safety category rating	EN 61010-1 CAT IV—300 V, CAT III—600 V, EN 61010-2-032

Shipping information	
Packaging type	Retail color box
Packaging contents	CM4x, 2 × AAA batteries, premium CAT IV silicone test leads, type-K thermocouple, FLIR carrying pouch, quick start guide, warranty registration card
Packaging weight	0.8 kg (1.8 lb.)
Packaging dimensions (H × W × L)	33 cm × 14 cm × 10.7 cm (13 in. × 5.5 in. × 4.3 in.)
Master carton weight	10.6 kg (23.4 lb.)



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Shipping information	
Master carton dimensions (H x W x L)	62.3 cm x 29.3 cm x 36.1 cm (24.6 in. x 11.6 in. x 14.3 in.)
Master carton quantity	12
UPC	793950370469
EAN	0793950370469
Country of origin	Taiwan
Tariff code	9030.31.0000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Accessories	
TA55	AC Current Line Splitter (120 V, US plug)
TA60	Thermocouple Probe with Adapter
TA70	CAT IV Insulated Alligator Probes
TA80	CAT IV Silicone Test Leads

P/N: CM55

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Website

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Customer support

<http://support.flir.com>



Part number	CM55
Name	Flex Clamp Meter with Bluetooth
Description	10" (25 cm) 3000 A true RMS AC flexible current clamp meter with Bluetooth

The FLIR Flex Clamp Meters with Bluetooth are ergonomic tools designed to simplify difficult current measurements. Made with a narrow flexible coil clamp, the FLIR CM55 and CM57 let you easily take measurements in tight or awkward spots—a difficult task with a traditional hard jaw clamp meter. With Bluetooth communication for remote viewing and data transfer to iOS and Android devices via the FLIR Tools Mobile app, you can analyze and share data fast right from the job site.

Take accurate measurements in tight or awkward spots—tricky conductors conquered:

- Snake the coil around obstacles with ease, even in deep, crowded cabinets.
- True RMS AC up to 3000 A for multiple conductor measurements.
- Inrush current function for equipment start-up spikes.

Easy inspection and navigation—designed with your convenience in mind:

- Standalone flexible clamp meter displays the readings you need.
- Bright, dual-LED worklights provide built-in illumination for dark cabinets.
- Drop tested to 3 m, portable, lightweight, and tangle free without compromising measurement range.

Remote viewing from a safe distance—transfer and view data on mobile devices with the FLIR Tools Mobile app:

- Connect to iOS and Android smartphones or tablets.
- Multiple units wirelessly connect for remote viewing of multiphase systems.
- Data recording for trend analysis transferable via Bluetooth.

Measurement	
Maximum AC	3000 A AC
AC response	True RMS
AC ranges and resolution	30.00 A, 300.0 A, 3000 A
Basic AC accuracy (of reading)	±3.0% + 5 digits
Maximum resolution	0.01 A
Measurement rate	1.5 samples per second, nominal
Display rate	2 times per second
AC bandwidth	45–500 Hz (sine wave)
Inrush current	Minimum 0.5 A, 100 mS
Data record mode	20 000 points , 1 minute sample rate
Detailed accuracy	30.00 A ± (3.0% + 5 digits), 300.0 A ± (3.0% + 5 digits), 3000 A ± (3.0% + 5 digits)
Positional error (distance from optimum)	15 mm (0.6") ± 2.0%, 25 mm (1.0") ± 2.5%, 35 mm (1.4") ± 3.0%



FLIR CM55

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Meter data	
Display	3000-count LCD with backlight and multi-function indicators
Maximum conductor diameter	6 cm (2.4")
Flex cable length	25 cm (10")
Coil bend radius	38.1 mm (1.5")
Coil diameter	7.5 mm (0.3")
Coil tip diameter	13 mm (0.5")
Display indications	Progressive low battery, over range, hold
Work light	Two white LEDs
Bluetooth range (maximum)	10 m (32')
Wireless ID# (maximum)	Up to 20

Power system	
Power supply	2 × 1.5 V AAA
Battery life	100 hours with alkaline batteries (calculated)
Auto power off	Approximately 10 minutes after power on or disable

Environmental	
Drop test	3 m (9.8')
IP rating	IP54 dust-protected and splash-resistant
Maximum operating altitude	2000 m (6562')
Operating temperature	0–50°C (32–122°F)
Operating humidity	Maximum 80% up to 35°C (95°F) decreasing linearly to 60% at 45°C (113°F)
Temperature coefficient	0.2 × specified accuracy/°C, <64.5°F (18°C), >82.4°F (28°C)
Storage temperature	–20 to +60°C (–4 to +140°F) without batteries
Storage humidity	80% relative humidity (maximum)

Certifications	
Agency approvals	RCM, CSA, KC
Safety compliance	CAT IV—600 V, CAT III—1000 V
Standards	EN61010-1, EN61010-2-032, EN61326-1

Physical data	
Dimensions (W × H × D)	120 mm × 280 mm × 25 mm (4.7" × 11.0" × 1.0")
Weight	170 g (6.0 oz.) with batteries

Shipping	
Packaging type	Color box
Packaging contents	CM55, 2 × AAA 1.5 V Energizer batteries, quick start guide, user manual on CD
Packaging weight	0.56 kg
Packaging dimensions (L × W × H)	32 cm × 18.5 cm × 6.8 cm
Inner carton quantity	3



FLIR CM55

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Shipping	
Inner carton weight	1.94 kg
Inner carton dimensions (L x W x H)	59.5 cm x 6.3 cm x 20.3 cm
Master carton quantity	12
Master carton weight	9.5 kg
Master carton dimensions (L x W x H)	61 cm x 50 cm x 22 cm
EAN-13	0793950370551
UPC-12	793950370551
Country of origin	Taiwan
Tariff code	9030310000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

P/N: CM57

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Part number	CM57
Name	Large Flex Clamp Meter with Bluetooth
Description	18"(45cm) 3000 A true RMS AC flexible current clamp meter with Bluetooth

The FLIR Flex Clamp Meters with Bluetooth are ergonomic tools designed to simplify difficult current measurements. Made with a narrow flexible coil clamp, the FLIR CM55 and CM57 let you easily take measurements in tight or awkward spots—a difficult task with a traditional hard jaw clamp meter. With Bluetooth communication for remote viewing and data transfer to iOS and Android devices via the FLIR Tools Mobile app, you can analyze and share data fast right from the job site.

Take accurate measurements in tight or awkward spots—tricky conductors conquered:

- Snake the coil around obstacles with ease, even in deep, crowded cabinets.
- True RMS AC up to 3000 A for multiple conductor measurements.
- Inrush current function for equipment start-up spikes.

Easy inspection and navigation—designed with your convenience in mind:

- Standalone flexible clamp meter displays the readings you need.
- Bright, dual-LED worklights provide built-in illumination for dark cabinets.
- Drop tested to 3 m, portable, lightweight, and tangle free without compromising measurement range.

Remote viewing from a safe distance—transfer and view data on mobile devices with the FLIR Tools Mobile app:

- Connect to iOS and Android smartphones or tablets.
- Multiple units wirelessly connect for remote viewing of multiphase systems.
- Data recording for trend analysis transferable via Bluetooth.

Measurement	
Maximum AC	3000 A AC
AC response	True RMS
AC ranges and resolution	30.00 A, 300.0 A, 3000 A
Basic AC accuracy (of reading)	±3.0% + 5 digits
Maximum resolution	0.01 A
Measurement rate	1.5 samples per second, nominal
Display rate	2 times per second
AC bandwidth	45–500 Hz (sine wave)
Inrush current	Minimum 0.5 A, 100 mS
Data record mode	20 000 points , 1 minute sample rate
Detailed accuracy	30.00 A ± (3.0% + 5 digits), 300.0 A ± (3.0% + 5 digits), 3000 A ± (3.0% + 5 digits)
Positional error (distance from optimum)	35 mm (1.4") ± 1.0%, 50 mm (2.0") ± 1.5%, 60 mm (2.4") ± 2.0%



FLIR CM57

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Website

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Customer support

<http://support.flir.com>

Meter data	
Display	3000-count LCD with backlight and multi-function indicators
Maximum conductor diameter	12 cm (4.7")
Flex cable length	45 cm (18")
Coil bend radius	80 mm (3.1")
Coil diameter	7.5 mm (0.3")
Coil tip diameter	13 mm (0.5")
Display indications	Progressive low battery, over range, hold
Work light	Two white LEDs
Bluetooth range (maximum)	10 m (32')
Wireless ID# (maximum)	Up to 20

Power System	
Power supply	2 × 1.5 V AAA
Battery life	100 hours with alkaline batteries (calculated)
Auto power off	Approximately 10 minutes after power on or disable

Environmental	
Drop test	3 m (9.8')
IP rating	IP54 dust-protected and splash-resistant
Maximum operating altitude	2000 m (6562')
Operating temperature	0–50°C (32–122°F)
Operating humidity	Maximum 80% up to 35°C (95°F) decreasing linearly to 60% at 45°C (113°F)
Temperature coefficient	0.2 × specified accuracy/°C, <64.5°F (18°C), >82.4°F (28°C)
Storage temperature	–20 to +60°C (–4 to +140°F) without batteries
Storage humidity	80% relative humidity (maximum)

Certifications	
Agency approvals	RCM, CSA, KC
Safety compliance	CAT IV—600 V, CAT III—1000 V
Standards	EN61010-1, EN61010-2-032, EN61326-1

Physical data	
Dimensions (W × H × D)	120 mm × 280 mm × 25 mm (4.7" × 11.0" × 1.0")
Weight	200 g (7.1 oz.) with batteries

Shipping	
Packaging type	Color box
Packaging contents	CM57, 2 × AAA 1.5 V Energizer batteries, quick start guide, user manual on CD
Packaging weight	0.57 kg
Packaging dimensions (L × W × H)	32 cm × 18.5 cm × 6.8 cm
Inner carton quantity	3



FLIR CM57

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Shipping	
Inner carton weight	1.94 kg
Inner carton dimensions (L x W x H)	59.5 cm x 6.3 cm x 20.3 cm
Master carton quantity	12
Master carton weight	9.5 kg
Master carton dimensions (L x W x H)	61 cm x 50 cm x 22 cm
EAN-13	0793950370575
UPC-12	793950370575
Country of origin	Taiwan
Tariff code	9030310000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

P/N: CM72

Revision

42524

Last modified

2017-05-08 16:48 UTC+1

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Website

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Customer support

<http://support.flir.com>



General description	
Part number	CM72
Part name	Commercial 600A AC Clamp Meter
<p>The FLIR CM72 600A AC Clamp Meter give you better access to wiring in hard-to-reach places, and provides all the measurement capabilities you need for advanced troubleshooting. Made with a narrow jaw and high-powered LED worklights, the FLIR CM72 makes it easier to take measurements in dark, crowded panels and cabinets. Its slim, light design is convenient to carry in your pocket wherever you go. With advanced electrical features including auto-ranging, true RMS voltage and current, LoZ, and an input for a flexible current probe accessory, the FLIR CM72 has all the measurement functions you need to stay competitive and ensure accurate readings.</p>	
<p>Better clamp access and portability:</p> <ul style="list-style-type: none"> • Take measurements in hard-to-reach places, and carry the clamp wherever you go. • Made with a narrow jaw for easy access to wiring in crowded panels and cabinets. • Slim clamp design makes it convenient to carry in your pocket. • Dual bright high-powered LED worklights guide you to your target in poor lighting conditions. 	
<p>All the electrical features you need:</p> <ul style="list-style-type: none"> • Tackle modern challenges, get accurate readings. • Advanced electrical features including true RMS, LoZ, and smart diode with disable. • Expandable to 3000 A AC with the FLIR TA72 and TA74 Flex Clamp Accessories (sold separately). • Minimum/maximum, hold, and auto power off with disable. 	
<p>Engineering you can have confidence in:</p> <ul style="list-style-type: none"> • Built rugged, and includes accessories to make troubleshooting easier. • Premium gold-tipped silicone test lead accessories included. • Large-digit LCD display with a bright backlight. • Rubberized double molded hand grips to reduce slippage. 	
Electrical measurement	
True RMS voltage and current	Yes
Auto-ranging	Yes, with manual range option
DC V range	60.00 V, 600.0 V
DC V accuracy	± (1.0% + 5 dgt)
AC V range	60.00 V, 600.0 V
AC V accuracy	±(1.0% + 5 dgt) 45–400 Hz
LoZ range	60.00 V, 600.0 V
LoZ accuracy	±(1% + 5 dgt) 45–65 Hz, ±(5% + 5 dgt) 65–400 Hz
LoZ input impedance	2.5 kΩ
AC A range	60.00 A, 600.0 A
AC A accuracy	±(2% + 5 dgt) 45–65 Hz, ±(6% + 5 dgt) 65–400 Hz



FLIR CM72: Commercial 600A AC Clamp Meter

P/N: CM72

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Website

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Customer support

<http://support.flir.com>

Electrical measurement	
Frequency range	600.0 Hz, 6.000 kHz, 60.00 kHz
Frequency accuracy	$\pm(0.1\% + 2 \text{ dgt})$
Resistance range	6000 Ω
Resistance	$\pm(1.0\% + 5 \text{ dgt})$
Continuity	600.0 $\Omega \pm (1.0\% + 5 \text{ dgt})$
Diode	1.5 V $\pm (1.5\% + 5 \text{ dgt})$
Capacitance	1–1000 $\mu\text{F} \pm (1.0\% + 4 \text{ dgt})$
Flex input AC A range	30.00 A, 300.0 A, 3000 A
Flex input AC A accuracy	$\pm(1\% + 5 \text{ dgt})$ 45–400Hz
Flex input frequency range	600.0 Hz, 6.000 kHz, 10.00 kHz
Flex input AC A accuracy	$\pm(0.1\% + 2 \text{ dgt})$
Additional measurement functions	Data hold, minimum/maximum

General	
Worklights	Dual white LEDs
Jaw opening	35 mm (1.38 in.)
Display counts	0–6000
Measuring rate	3 times per second
Calibration cycle	1 year calibration cycle recommended
Auto power off	10 minutes with disable
Power source	4 × 1.5 V AAA alkaline batteries
Battery life	200 hours (with alkaline batteries and backlight/worklight off)

Environmental Data	
Operational temperature	–10 to +10°C (14–50°F) (non-condensing) 10–30°C (50–86°F) ($\leq 80\%$ relative humidity (RH)) 30–40°C (86–104°F) ($\leq 75\%$ RH) 40–50°C (104–122°F) ($\leq 45\%$ RH)
Storage temperature	–20 to +60°C (4–140°F)
Relative humidity	0–80% RH (batteries not installed)
Temperature coefficient	0.2 × (specified accuracy)/°C, <18°C (64.4°F), >28°C (82.4°F)
Operating altitude	2000 m (6562 ft.)
Pollution degree	2

Physical data	
Dimensions (D × W × L)	43 mm × 89 mm × 241 mm (1.7 in. × 3.5 in. × 9.5 in.)
Weight:	363 g (12.8 oz.) including batteries

Warranty	
Warranty	10 years on the product, 10 years on the detector with registration

Certifications	
Certifications	UL, cUL



FLIR CM72: Commercial 600A AC Clamp Meter

P/N: CM72

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Certifications	
Safety category rating	EN 61010-1 CAT IV-600 V, CAT III-1000 V, EN 61010-2-032

Shipping information	
Packaging type	Retail color box
Packaging contents	CM72, 4 x AAA batteries, premium CAT IV silicone test leads, quick start guide, user manual (CD), warranty registration card
Packaging weight	0.8 kg (1.8 lb.)
Packaging dimensions (H x W x L)	33 cm x 14 cm x 10.7 cm (13 in. x 5.5 in. x 4.3 in.)
Master carton weight	10.6 kg (23.4 lb.)
Master carton dimensions (H x W x L)	62.3 cm x 29.3 cm x 36.1 cm (24.6 in. x 11.6 in. x 14.3 in.)
Master carton quantity	12
UPC	793950370728
EAN	0793950370728
Country of origin	Taiwan
Tariff code	9030.31.0000

Accessories	
TA72	Universal Flex Current Probe Accessory (10 in.)
TA74	Universal Flex Current Probe Accessory (18 in.)
TA80	CAT IV Silicone Test Leads
TA70	CAT IV Insulated Alligator Probes
TA55	AC Current Line Splitter (120 V, US plug)

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

P/N: CM74

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
Part number	CM74
Part name	Commercial 600A AC/DC Clamp Meter
<p>The FLIR CM74 600A AC/DC Clamp Meter give you better access to wiring in hard-to-reach places, and provides all the measurement capabilities you need for advanced troubleshooting. Made with a narrow jaw and high-powered LED worklights, the FLIR CM74 makes it easier to take measurements in dark, crowded panels and cabinets. Its slim, light design is convenient to carry in your pocket wherever you go. With advanced electrical features including auto-ranging, true RMS voltage and current, LoZ, inrush, VFD Mmode, and an input for a flexible current probe accessory, the FLIR CM74 has all the measurement functions you need to stay competitive and ensure accurate readings.</p>	
<p>Better clamp access and portability:</p> <ul style="list-style-type: none"> • Take measurements in hard-to-reach places, and carry the clamp wherever you go. • Made with a narrow jaw for easy access to wiring in crowded panels and cabinets. • Slim clamp design makes it convenient to carry in your pocket. • Dual bright high-powered LED worklights guide you to your target in poor lighting conditions. 	
<p>All the electrical features you need:</p> <ul style="list-style-type: none"> • Tackle modern challenges, get accurate readings. • Advanced electrical features including true RMS, LoZ, and smart diode with disable. • Expandable to 3000 A AC with the FLIR TA72 and TA74 Flex Clamp Accessories (sold separately). • Minimum/maximum, hold, and auto power off with disable. 	
<p>Engineering you can have confidence in:</p> <ul style="list-style-type: none"> • Built rugged, and includes accessories to make troubleshooting easier. • Premium gold-tipped silicone test lead accessories included. • Large-digit LCD display with a bright backlight. • Rubberized double molded hand grips to reduce slippage. 	
Electrical measurement	
True RMS voltage and current	Yes
Auto-ranging	Yes, with manual range option
DC V range	60.00 V, 600.0 V, 1000 V
DC V accuracy	± (1.0% + 5 dgt)
AC V range	60.00 V, 600.0 V, 1000 V
AC V accuracy	±(1.0% + 5 dgt) 45–400 Hz
AC V VFD range	60.00 V, 600.0 V, 1000 V
AC V VFD accuracy	±(1% + 5 dgt) 45–65 Hz, ±(5% + 5 dgt) 65–400 Hz
LoZ range	60.00 V, 600.0 V, 1000 V
LoZ accuracy	±(1% + 5 dgt) 45–65 Hz, ±(5% + 5 dgt) 65–400 Hz
LoZ input impedance	2.5kΩ



FLIR CM74: Commercial 600A AC/DC Clamp Meter

P/N: CM74

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Electrical measurement	
AC A range	60.00 A, 600.0 A
AC A accuracy	±(2% + 5 dgt) 45–65Hz, ±(2% + 5 dgt) 65–400Hz
AC A VFD range	60.00 A, 600.0 A
AC A VFD accuracy	±(2% + 5 dgt) 45–65Hz, ±(6% + 5 dgt) 65–400Hz
AC A inrush range and accuracy	60.00 A ± (3% + 0.3 A), 600.0 A ± (3% + 5 dgt)
DC A range	60.00 A, 600.0 A
DC A accuracy	±(2% + 5 dgt)
Frequency range	600.0 Hz, 6.000 kHz, 60.00 kHz
Frequency accuracy	±(0.1% + 2 dgt)
Resistance range	600.0 Ω, 6.000 kΩ
Resistance	±(1.0% + 5 dgt)
Continuity	600.0 Ω ± (1.0% + 5 dgt)
Diode	1.5V ± (1.5% + 5 dgt)
Capacitance	1–1000 μF ± (1.0% + 4 dgt)
Flex input AC A range	30.00 A, 300.0 A, 3000 A
Flex input AC A accuracy	±(1% + 5 dgt) 45–400Hz
Flex input Frequency range	600.0 Hz, 6.000 kHz, 10.00 kHz
Flex input AC A accuracy	±(0.1% + 2 dgt)
Additional measurement functions	Integrated VFD mode, DCA zero, data hold, minimum/maximum

General	
Worklights	Dual white LEDs
Jaw opening:	35 mm (1.38 in.)
Display Counts	0–6000
Measuring rate:	3 times per second
Calibration Cycle	1 year calibration cycle recommended
Auto Power Off	10 minutes with disable
Power Source	4 × 1.5 V AAA alkaline batteries.
Battery Life	65 hours (with alkaline batteries and backlight/worklight off)

Environmental data	
Operational temperature	–10 to +10°C (14–50°F) (non-condensing) 10–30°C (50–86°F) (≤80% relative humidity (RH)) 30–40°C (86–104°F) (≤75% RH) 40–50°C (104–122°F) (≤45% RH)
Storage temperature	–20 to +60°C (4–140°F)
Relative humidity	0–80% RH (batteries not installed)
Temperature coefficient:	0.2 × (specified accuracy)/°C, <18°C (64.4°F), >28°C (82.4°F)
Operating altitude:	2000 m (6562 ft.)
Pollution degree	2



FLIR CM74: Commercial 600A AC/DC Clamp Meter

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Physical data	
Dimensions: (D x W x L):	43 mm x 89 mm x 241 mm (1.7 in. x 3.5 in. x 9.5 in.)
Weight	426 g (15.0 oz.) including batteries

Warranty	
Warranty	10 years on the product, 10 years on the detector with registration

Certifications	
Certifications	UL, cUL
Safety category rating	EN 61010-1 CAT IV-600 V, CAT III-1000 V, EN 61010-2-032

Shipping information	
Packaging type	Retail color box
Packaging contents	CM74, 4 x AAA batteries, premium CAT IV silicone test leads, quick start guide, user manual (CD), warranty registration card
Packaging weight	0.9 kg (2 lb.)
Packaging dimensions (H x W x L)	33 cm x 14 cm x 10.7 cm (13 in. x 5.5 in. x 4.3 in.)
Master carton weight	11.8 kg (26.1 lbs.)
Master carton dimensions (H x W x L)	62.3 cm x 29.3 cm x 36.1 cm (24.6 in. x 11.6 in. x 14.3 in.)
Master carton quantity	12
UPC	793950370742
EAN	0793950370742
Country of origin	Taiwan
Tariff code	9030.31.0000

Accessories	
TA72	Universal Flex Current Probe Accessory (10 in.)
TA74	Universal Flex Current Probe Accessory (18 in.)
TA80	CAT IV Silicone Test Leads
TA70	CAT IV Insulated Alligator Probes
TA55	AC Current Line Splitter (120 V, US plug)

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

P/N: CM78

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42558

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Website

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Customer support

<http://support.flir.com>



The FLIR CM78 is a true RMS industrial grade 1000 A clamp meter for the electrician who needs a safe, capable combination tool.

- The integrated infrared (IR) thermometer provides fast non-contact measurements on panels, conduits, and motors.
- Powerful work lights not only assist with clamping but are bright enough to serve as a primary work light.
- FLIR Tools Mobile connects the FLIR CM78 to your compatible smartphones and tablets via Bluetooth.
- METERLiNK technology wirelessly integrates electrical readings on your IR image with FLIR thermal cameras.

Features:

Voltage and current, minimum, maximum, average, auto power off, data hold, relative, peak hold, battery status indicator, bright white LED backlight.

Measurement	
AC/DC current	1000 A \pm 2.5%
AC/DC voltage	1000 V \pm 1.5%
Resistance	40.00 M Ω \pm 1.5%
Capacitance	4.000 mF \pm 3%
Frequency	4000 Hz \pm 1.5%
Temperature (IR)	-20 to 270°C (-20 to 518°F) \pm 2%
IR distance to target ratio	8:1
Type K temperature (optional probe)	-20 to 760°C (-4 to 1400°F) \pm 3%
Maximum voltage applied to any terminal	1000 V DC or 1000 V AC RMS
Measuring rate	20 samples per second (nominal)

Meter data	
Jaw opening	42 mm (1.7", 1500 MCM)
Bluetooth range (maximum)	10 m (32')
Category rating	CAT IV-600 V, CAT III-1000 V
Data recording	N/A
Warranty	Limited lifetime
Calibration cycle	Once per year (suggested)

Certifications	
Certifications	UL, CE, FCC, CB



FLIR CM78

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Website

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Customer support

<http://support.flir.com>

Certifications	
Complies with safety standards	IEC 61010-1 CAT IV-600 V and CAT III-1000 V, IEC 61010-2-33

Power system	
Power requirements	6 × 1.5 V AAA alkaline batteries
Battery life	~100 hours with alkaline batteries (backlight, work light, and Bluetooth off)
Auto power off	Default: 25 minutes

Environmental data	
Operating ambient temperature	-10 to 50°C (14–122°F)
Storage temperature	-25 to 60°C (-14 to 140°F)
Temperature coefficient	0.2 × (specified accuracy)/°C, <18°C, >28°C
Operating altitude	2000 m (6550')
Pollution degree	2
Electromagnetic compatibility	EN 61326-1
Shock vibration	Random vibration per MIL-PRF-28800f Class 2 (5–55 Hz, 3g maximum)

Meter physical data	
Weight	0.63 kg (1.4 lb.), including batteries
Dimensions (H × W × L)	257 mm × 110 mm × 50 mm (10.1" × 4.3" × 2.0")
Material	<ul style="list-style-type: none">Polycarbonate and acrylonitrile butadiene styrene (PC-ABS)Thermoplastic elastomer (TPE)
Color	Gray, black

Shipping information	
Packaging type	Color box with view of product in clamshell
Packaging contents	<ul style="list-style-type: none">CM78 FLIR meterTA80 premium test leads6 × AAA Energizer batteriesUser manual/CD
Packaging weight	1.03 kg (2.27 lb.)
Packaging dimensions (H × W × L)	13.5 cm × 11 cm × 30 cm (5.3" × 4.3" × 11.8")
Carton weight	21.5 kg (47.4 lb.)
Carton dimensions (H × W × L)	57 cm × 30 cm × 65 cm (22.4" × 11.8" × 25.6")
Carton quantity	20
EAN-13	0793950370780
UPC-12	793950370780
Country of origin	China
Tariff code	9030310000

Accessories	
TA80	CAT IV silicon test leads

Technical support	
Website	http://support.flir.com



FLIR CM78

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Technical support	
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

P/N: CM82

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Website

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Customer support

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Part number	CM82
Part name	600 Amp Power Clamp Meter with VFD Mode
Part description	The FLIR CM82 is an industrial-grade power clamp meter engineered with advanced power analysis and variable-frequency drive (VFD) filtering functions required by electrical troubleshooters.
	<ul style="list-style-type: none"> • VFD mode provides superior accuracy for working on VFD-controlled equipment. • Advanced power efficiency and harmonics measurements for system-level performance analysis. • Powerful work lights not only assist with clamping but are bright enough to serve as a primary work light.

Measurement	
DC voltage	99.99 V \pm (0.7% + 2 digits) 999.9 V \pm (0.7% + 2 digits)
AC voltage	0.05–99.99 V \pm (1.0% + 5 digits) 999.9 V, 50–500 Hz
VFD AC voltage	0.05–99.99 V, 50–60 Hz \pm (1% + 5 digits) 999.9 V, 50–60 Hz \pm (1% + 5 digits)
DC current	99.99 A \pm (2% + 0.5 A) 599.9 A \pm (2% + 5 digits)*
AC current	0.10–99.99 A, 50–60 Hz \pm (2% + 5 digits)* 599.9 A, >60–400 Hz \pm (2.5% + 5 digits)*
VFD AC current	0.10–99.99 A, 50–60 Hz \pm (2% + 5 digits)* 599.9 A, 50–60 Hz \pm (2% + 5 digits)*
Peak hold AC voltage	140.0 V \pm (3.0% + 15 digits) 1400 V \pm (3.0% + 15 digits)
Peak hold AC current	140.0 A \pm (3.5% + 15 digits) 850 A \pm (3.5% + 15 digits)
Frequency	20.00–99.99 Hz \pm (0.5% + 3 digits) 20.0–999.9 Hz \pm (0.5% + 3 digits) 0.020–9.999 kHz \pm (0.5% + 3 digits)
Total harmonic distortion (AC A/AC V)	99.9% \pm (3.0% + 10 digits)
Harmonic distortion H01–H12	99.90%
Harmonic distortion H13–H25	99.90%
Inrush current (AC)	99.99 A \pm (3% + 0.3 A) 599.9 A \pm (3% + 5 digits)*



FLIR CM82: 600 Amp Power Clamp Meter with VFD Mode

P/N: CM82

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Measurement	
Watts (DC)	9.999 kW (10 V, 5 A min) ± (3% + 0.05 kW) 99.99 kW (10 V, 5 A min) ± (3% + 0.5 kW) 599.9 kW (10 V, 5 A min) ± (3% + 10 digits)
Watts (AC)	9.999 kW (10 V, 5 A min) ± (3% + 10 digits) 99.99 kW (10 V, 5 A min) ± (3% + 10 digits) 599.9 kW (10 V, 5 A min) ± (3% + 10 digits)
Power factor	-1.00 to 0.00 to +1.00 ± (3% ± 1 digit)
Resistance	999.9 Ω ± (1.0% + 5 digits) 9.999 kΩ ± (1.0% + 3 digits) 99.99 kΩ ± (1.0% + 3 digits)
Continuity	999.9 Ω ± (1.0% + 5 digits)
Diode	0.40–0.80 V ± 0.1 V
Capacitance	3.999 μF ± (1.9% + 8 digits) 39.99 μF ± (1.9% + 8 digits) 399.9 μF ± (1.9% + 8 digits) 3.999 mF, ± (1.9% + 8 digits)
Measuring rate	3 times per second

Meter data	
Jaw opening	1.45" (37 mm)
Category rating	CAT IV—600 V, CAT III—1000 V
Data recording	N/A
Warranty	Limited lifetime
Calibration cycle	Once per year

Certifications	
Certifications	UL, CE, FCC
Safety standards compliance	IEC 61010-1 CAT IV—600 V, CAT III—1000 V, IEC 61010-2-033

Power system	
Power requirements	6 × 1.5 V AAA alkaline batteries
Battery life	Approximately 50 hours with alkaline batteries (backlight and work light are off)
Auto power off	Approximately 30 minutes

Environmental data	
Operating ambient temperatures and relative humidity (RH)	32–50°F (0–10°C) (non-condensing) 50–86°F (10–30°C) (≤ 80% RH) 86–104°F (30–40°C) (≤ 75% RH) 104–122°F (40–50°C) (≤ 45% RH)
Storage temperature and RH	
Temperature coefficient	0.2 × (specified accuracy)/°C, <18°C, >28°C
Operating altitude	6562' (2000 m)
Pollution degree	2
EMC	EN 61326-1



FLIR CM82: 600 Amp Power Clamp Meter with VFD Mode

P/N: CM82

Revision

42559

Last modified

2017-05-09 13:35 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Environmental data	
Shock vibration	Random vibration per MIL-PRF-28800f Class 2 (5–55 Hz, 3g maximum)

Meter physical data	
Weight	20.8 oz. (590 g) including batteries
Dimensions (H x W x L)	1.9" x 3.9" x 10.3" (49 mm x 100 mm x 262 mm)
Material	PC-ABS, TPE
Color	Grey and black

Shipping information	
Packaging type	Color box with view of product in clamshell
Packaging contents	CM82 FLIR meter, TA80 CAT IV silicon test leads, 6 x AAA Energizer batteries, user manual (English)/CD (translations)
Packaging weight	1.02 kg (2.25 lb.)
Packaging dimensions (H x W x L)	32 cm x 14 cm x 11 cm (12.6" x 5.5" x 4.3")
Carton weight	13.6 kg (30 lb.)
Carton dimensions (H x W x L)	13 7/8" x 11 1/2" x 24-1/8"
Carton quantity	12
EAN-13	0793950370827
UPC-12	793950370827
Country of origin	Taiwan
Tariff code	9030310000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Accessories	
TA11. EVA Protective case for CM8x and CM7x Series	
TA55. AC Current Line Splitter	
TA70. CAT IV Insulated Alligator Probes	
TA80. CAT IV Silicone Test Leads	

P/N: CM83

Revision

42560

Last modified

2017-05-09 13:37 UTC+1

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The FLIR CM83 is an industrial-grade power clamp meter engineered with advanced power analysis and variable-frequency drive (VFD) filtering functions required by electrical troubleshooters.

- VFD mode provides superior accuracy for working on VFD-controlled equipment.
- Advanced power efficiency and harmonics measurements for system-level performance analysis.
- Powerful work lights not only assist with clamping but are bright enough to serve as a primary work light.
- FLIR Tools Mobile connects the FLIR CM83 to your compatible smartphone and tablet via Bluetooth.
- METERLINK technology wirelessly integrates electrical readings on your infrared image with FLIR thermal cameras.

Features:

Voltage and current, bright white LED backlight, analog bargraph, power factor, phase rotation, integrated non-contact voltage detector, minimum, maximum, average, auto power off, data hold, relative, peak hold, DCA zero, battery status

Measurement	
AC/DC current	600 A \pm 2%
AC/DC voltage	1000.0 V \pm 1%/0.7%
Harmonics (1st–25th order)	5%
Inrush	600 ACA \pm 3% (integration time 100ms)
Active power	10–600 kW \pm 3% (10 V, 5 A minimum)
Diode test	0.4–0.8 V \pm 0.1 V
Capacitance	3.999 mF maximum \pm 1.9%
Resistance	99.99 k Ω maximum \pm 1%
Continuity threshold	30 Ω \pm 1%
Frequency	20.00 Hz to 9.999 kHz \pm 0.5%
Maximum voltage applied to any terminal	1000 V DC or 1000 V AC RMS
Measuring rate	3 samples per second

Meter data	
Jaw opening	37 mm (1.45", 1000 MCM)
Bluetooth range (maximum)	10 m (32')
Category rating	CAT IV-600 V, CAT III-1000 V
Data recording	N/A
Warranty	Limited lifetime
Calibration cycle	Once per year (suggested)

P/N: CM83

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Website

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Customer support

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Certifications	
Certifications	UL, CE, FCC, CB
Complies with safety standards	IEC 61010-1 CAT IV-600 V and CAT III-1000 V, IEC 61010-2-33

Power system	
Power requirements	6 × 1.5 V AAA alkaline batteries
Battery life	~50 hours with alkaline batteries (backlight, work light, and Bluetooth off)
Auto power off	Default: 30 minutes

Environmental data	
Operating ambient temperature and relative humidity (RH)	<ul style="list-style-type: none"> -10 to 30°C (14–86°F), <85% RH 30–40°C (86–104°F), <75% RH 40–50°C (104–122°F), <45% RH
Storage temperature and RH	-10 to 50°C (-22 to 140°F), 0–80% RH (batteries not fitted)
Temperature coefficient	0.2 × (specified accuracy)/°C, <18°C, >28°C
Operating altitude	2000 m (6550')
Pollution degree	2
Electromagnetic compatibility	EN 61326-1
Shock vibration	Random vibration per MIL-PRF-28800f Class 2 (5–55 Hz, 3g maximum)
Environmental conditions	Indoor use

Meter physical data	
Weight	0.59 kg (1.29 lb.), including batteries
Dimensions (H × W × L)	49 mm × 100 mm × 262 mm (1.9" × 3.9" × 10.3")
Material	<ul style="list-style-type: none"> Polycarbonate and acrylonitrile butadiene styrene (PC-ABS) Thermoplastic elastomer (TPE)
Color	Gray, black

Shipping information	
Packaging type	Color box with view of product in clamshell
Packaging contents	<ul style="list-style-type: none"> CM83 FLIR meter TA80 CAT IV silicon test leads 6 × AAA Energizer batteries User manual (English), CD (translations)
Packaging weight	1.02 kg (2.25 lb.)
Packaging dimensions (H × W × L)	32 cm × 14 cm × 11 cm (12.6" × 5.5" × 4.3")
Carton weight	23.0 kg (50.7 lb.)
Carton dimensions (H × W × L)	56 cm × 30 cm × 65 cm (22.0" × 11.8" × 25.6")
Carton quantity	20
EAN-13	0793950370834
UPC-12	793950370834
Country of origin	Taiwan
Tariff code	9030310000



FLIR CM83

P/N: CM83

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Accessories

TA80

CAT IV silicon test leads

Technical support

Website

<http://support.flir.com>

E-mail

TMsupport@flir.com

Phone

855-499-3662

Repairs

repair@flir.com

P/N: CM85

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Website

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Customer support

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Part Number	CM85
Part Name	1000 Amp Power Clamp Meter with VFD Mode and METERLiNK™
<p>The FLIR CM85 is an industrial-grade High Capacity Power Clamp Meter with the advanced power analysis and VFD filtering functions desired by electrical troubleshooters. It's Versatility is engineered to Help You Manage Power Analysis & VFD Troubleshooting for full scale equipment. The CM85 incorporates numerous features, VFD, Harmonics, Inrush Current and Phase Rotation – that are designed to enable users to accurately analyze voltage, current and frequency going into and out of complex machinery. The rugged CM85 also has an extremely bright dual LED worklight to illuminate work areas.</p>	
<ul style="list-style-type: none"> • 1,000 Amp clamp capacity for large electrical equipment • VFD Mode provides superior accuracy for working on Variable Frequency Drive controlled equipment • Advanced power efficiency and harmonics measurements for system level performance analysis • Inrush mode captures fast AC Current spikes during appliance start-up • Phase Rotation testing ensures the motor and power source are aligned • True RMS DMM functionality features reliable performance and expansive ranges • Powerful worklights are bright enough to serve as a primary worklight • FLIR tools mobile connects the FLIR CM85 to your compatible smart phone and tablet via Bluetooth • METERLiNK™ technology wirelessly integrates electrical readings on your infrared image with FLIR Thermal Cameras See flir.com/test for more info 	

Measurement Ranges and Accuracy	
Voltage DC	99.99 V, $\pm(0.7\% + 2 \text{ dgt})$ 999.9 V, $\pm(0.7\% + 2 \text{ dgt})$
Voltage AC	0.05–99.99 V, $\pm(1.0\% + 5 \text{ dgt})$ 999.9 V, 50–500 Hz
VFD, ACV	0.05–99.99 V, 50–60 Hz $\pm(1\% + 5 \text{ dgt})$ 999.9 V, 50–60 Hz $\pm(1\% + 5 \text{ dgt})$
Current DC	99.99 A, $\pm(2\% + 0.5 \text{ A})$ 999.9 A, $\pm(2\% + 5 \text{ dgt})^*$
Current AC	0.10–99.99 A, 50–60 Hz $\pm(2\% + 5 \text{ dgt})^*$ 999.9 A, >60–400 Hz $\pm(2.5\% + 5 \text{ dgt})^*$
VFD, ACA	0.10–99.99 A, 50–60 Hz $\pm(2\% + 5 \text{ dgt})^*$ 999.9 A, 50–60 Hz $\pm(2\% + 5 \text{ dgt})^*$
Peak Hold ACV	140.0 V, $\pm(3.0\% + 15 \text{ dgt})$ 1400 V, $\pm(3.0\% + 15 \text{ dgt})$
Peak Hold ACA	140.0 A, $\pm(3.5\% + 15 \text{ dgt})$ 1400 A, $\pm(3.5\% + 15 \text{ dgt})$



FLIR CM85: 1000 Amp Power Clamp Meter with VFD Mode and METERLiNK™

P/N: CM85

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Measurement Ranges and Accuracy	
Frequency	20.00–99.99 Hz, $\pm(0.5\% + 3 \text{ dgt})$ 20.0–999.9 Hz, $\pm(0.5\% + 3 \text{ dgt})$ 0.020–9.999 kHz, $\pm(0.5\% + 3 \text{ dgt})$
Total harmonic distortion ACA/ACV	99.9%, $\pm(3.0\% + 10 \text{ dgt})$
Harmonic distortion H01–H12	99.9%, $\pm(5\% + 10 \text{ dgt})$
Harmonic distortion H13–H25	99.9%, $\pm(10\% + 10 \text{ dgt})$
Inrush current ACA	99.99 A, $\pm(3\% + 0.3 \text{ A})$ 999.9 A, $\pm(3\% + 5 \text{ dgt})^*$
Watts DC	9.999 kW (10 V, 5 A min), $\pm(3\% + 0.05 \text{ kW})$ 99.99 kW (10 V, 5 A min), $\pm(3\% + 0.5 \text{ kW})$ 999.9 kW (10 V, 5 A min), $\pm(3\% + 10 \text{ dgt})$
Watts AC	9.999 kW (10 V, 5 A min), $\pm(3\% + 10 \text{ dgt})$ 99.99 kW (10 V, 5 A min), $\pm(3\% + 10 \text{ dgt})$ 999.9 kW (10 V, 5 A min), $\pm(3\% + 10 \text{ dgt})$
Power factor	-1.00 to 0.00 to +1.00, $\pm 3^\circ \pm 1 \text{ dgt}$
Resistance	999.9 Ω , $\pm(1.0\% + 5 \text{ dgt})$ 9.999 k Ω , $\pm(1.0\% + 3 \text{ dgt})$ 99.99 k Ω , $\pm(1.0\% + 3 \text{ dgt})$
Continuity	999.9 Ω , $\pm(1.0\% + 5 \text{ dgt})$
Diode	0.40–0.80 V, $\pm 0.1 \text{ V}$
Capacitance	3.999 μF , $\pm(1.9\% + 8 \text{ dgt})$ 39.99 μF , $\pm(1.9\% + 8 \text{ dgt})$ 399.9 μF , $\pm(1.9\% + 8 \text{ dgt})$ 3.999 mF, $\pm(1.9\% + 8 \text{ dgt})$
Measuring rate:	3 times per second

Meter Data	
Jaw Opening	45 mm (1.77 in.).
Bluetooth Range Max	10 m (32 ft.) maximum.
Category Rating	CAT IV-600 V, CAT III-1000 V
Data Recording	N/A
Warranty	Limited lifetime with Registration
Calibration cycle:	Once per year

Certifications	
Certifications	UL, CE, FCC Class B
Complies with Safety Standards:	IEC 61010-1 CAT IV-600 V, CAT III-1000 V, IEC 61010-2-033.

Power System	
Power requirements:	6 × 1.5 V AAA alkaline batteries.
Battery life:	50 hours with alkaline batteries (backlight, work light, and Bluetooth are off).
Auto power off:	Approx. 30 minutes.



FLIR CM85: 1000 Amp Power Clamp Meter with VFD Mode and METERLiNK™

P/N: CM85

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Website

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Customer support

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Environmental Data	
Operating ambient temperatures and relative humidity:	0 to 10oC (32 to 50 oF)(non-condensing) 10 to 30 oC (50 to 86 oF) (≤ 80% RH) 30 to 40 oC (86 to 104 oF) (≤ 75% RH) 40 to 50 oC (104 to 122 oF) (≤ 45%RH)
Storage temperature and relative humidity:	-10 to 50 oC (14 to 122 oF). 0–80% RH (batteries not fitted).
Temperature coefficient:	0.2 × (specified accuracy)/oC, <18 oC, >28 oC.
Operating altitude:	2000 m (6562')
Pollution degree:	2
EMC:	EN 61326-1
Shock vibration:	Random vibration per MIL-PRF-28800f Class 2 (5–55 Hz, 3g maximum)

Meter Physical Data	
Weight:	0.59 kg (1.29 lb.), including batteries.
Dimensions (H × W × L):	49 mm × 100 mm × 262 mm (1.9" × 3.9" × 10.3").
Material	Polycarbonate + acrylonitrile butadiene styrene (PC-ABS) Thermoplastic elastomer (TPE)
Color	Grey, Black

Shipping Information	
Packaging, type	Color box with view of product in clamshell
Packaging, Contents:	<ul style="list-style-type: none">• CM85 FLIR meter• TA80 CAT IV silicon test leads• 6 × AAA Energizer batteries• User manual (English), CD (translations)
Packaging weight	1.02 kg (2.25 lb.)
Packaging dimensions (H × W × L)	32 cm × 14 cm × 11 cm (12.6" × 5.5" × 4.3")
Carton weight	13.6 kg (30 lb)
Carton dimensions (H × W × L)	13-7/8 x 11-1/2 x 24-1/8"
Carton Quantity	12
EAN-13	0793950370858
UPC-12	793950370858
Country of Origin	Taiwan
Tariff Code	9030310000

Technical support	
Website	http://support.flir.com
E-mail	TMSupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Accessories	
TA11..EVA Protective Case for CM7x and CM8x Series	
TA55..AC Current Line splitter	
TA70..CAT IV Insulated Alligator Probes	



FLIR CM85: 1000 Amp Power Clamp Meter with VFD Mode and METERLiNK™

P/N: CM85

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Website

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Customer support

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Accessories	
TA80..CAT IV Silicone Test Leads	

P/N: CM174

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Website

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Customer support

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General description	
Part number	CM174
Part name	Imaging 600A AC/DC Clamp Meter with IGM
<p>The FLIR CM174 Imaging 600A AC/DC Clamp Meter with IGM is the first clamp meter equipped with a built-in thermal imager that can quickly lead you to problems you can't see with a standard clamp meter. Featuring Infrared Guided Measurement (IGM) technology, the FLIR CM174 visually guides you to the precise location of a potential electrical issue, identifying dangerous and unknown problem areas safely. Confirm your findings with accurate amperage and voltage measurements, and center-point temperature readings. The narrow jaw enables greater accessibility, and its compact form factor fits easily into a pocket – so you can have thermal imaging at your fingertips everywhere you go. The FLIR CM174 will quickly become your primary electrical troubleshooting tool.</p>	
<p>Find problems faster with IGM:</p> <ul style="list-style-type: none"> • Visually identify electrical issues with the first thermal imaging clamp meter. • Conquer cluttered wires and cables—IGM can quickly guide you in the right direction. • All-in-one tool—carry just one device and always have access to thermal imaging. • Work safely—scan a panel or cabinet for hazards using IGM without direct contact. 	
<p>Confirm your findings:</p> <ul style="list-style-type: none"> • Verify problems, check loads, and validate hot spots. • Center-point temperature to confirm hot spot. • Amperage and voltage measurements to check the load. • The laser and crosshair pinpoint the location of the problem found in thermal image. 	
<p>Solve complex electrical issues:</p> <ul style="list-style-type: none"> • Design and functionality vital to professionals. • Narrow jaw and built-in worklights help you access difficult locations with lighting issues. • Advanced electrical features: true RMS, LoZ, VFD mode, inrush, smart diode with disable. • Expandable to 3000 A AC with FLIR flex accessories. 	
Thermal imaging	
Detector type	FLIR Lepton; micro-bolometer focal plane array (FPA)
IR imaging resolution (V × H)	60 × 80 pixels
IR imaging field of view (V × H)	50.0° × 38.6°
IR imaging spectral response	8–14 μm
Thermal sensitivity	150 mK
IR image capture frequency	9 Hz
IR image color palettes	Rainbow, Iron, Gray scale
Laser pointer	Class I (red)
IR temperature measurement range	–25 to +150°C (–13 to +302°F)
Over- and under-range indication	OL



FLIR CM174: Imaging 600A AC/DC Clamp Meter with IGM

P/N: CM174

Revision

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Website

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Customer support

<http://support.flir.com>

Thermal imaging	
Temperature reading stabilization	Dashes are displayed for approximately 30 seconds as the temperature reading stabilizes
IR temperature resolution	0.1 °C (0.1 °F)
IR temperature accuracy	5.4 °F (±3 °C) or ± 3% of the reading (whichever is greater)
Distance-to-spot (D:S) ratio	30:1
Emissivity adjustment	4 presets plus a custom setting (0.01–0.99)
Targeting	Displayed cross-hairs pinpoint the center of the measurement spot
Hold	Image with measurement

Electrical measurement	
True RMS voltage and current	Yes
Auto-ranging	Yes, with manual range option
DC V range	60.00 V, 600.0 V, 1000 V
DC V accuracy	± (1.0% + 5 dgt)
AC V range	60.00 V, 600.0 V, 1000 V
AC V accuracy	±(1.0% + 5 dgt) 45–400 Hz
AC V VFD range	60.00 V, 600.0 V, 1000 V
AC V VFD accuracy	±(1% + 5 dgt) 45–65 Hz, ±(5% + 5 dgt) 65–400 Hz
LoZ range	60.00 V, 600.0 V, 1000 V
LoZ accuracy	±(1% + 5 dgt) 45–65 Hz, ±(5% + 5 dgt) 65–400 Hz
LoZ input impedance	2.5 kΩ
AC A range	60.00 A, 600.0 A
AC A accuracy	±(2% + 5 dgt) 45–400 Hz
AC A VFD range	60.00 A, 600.0 A
AC A VFD accuracy	±(2% + 5 dgt) 45–65 Hz, ±(6% + 5 dgt) 65–400 Hz
AC A inrush range and accuracy	60.00 A ± (3% + 0.3 A), 600.0 A ± (3% + 5 dgt)
DC A range	60.00 A, 600.0 A
DC A accuracy	±(2% + 5 dgt)
Frequency range	600.0 Hz, 6.000 kHz, 60.00 kHz
Frequency accuracy	±(0.1% + 2 dgt)
Resistance range	600.0 Ω, 6.000 kΩ
Resistance	±(1.0% + 5 dgt)
Continuity	600.0 Ω ± (1.0% + 5 dgt)
Diode	1.5 V ± (1.5% + 5 dgt)
Capacitance	1–1000 μF ± (1.0% + 4 dgt)
Flex input AC A range	30.00 A, 300.0 A, 3000 A
Flex input AC A accuracy	±(1% + 5 dgt) 45–400 Hz
Flex input frequency range	600.0 Hz, 6.000 kHz, 10.00 kHz
Flex input AC A accuracy	±(0.1% + 2 dgt)
Additional measurement functions	DCA zero, data hold, minimum/maximum



FLIR CM174: Imaging 600A AC/DC Clamp Meter with IGM

P/N: CM174

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

General	
Worklights	Dual white LEDs
Jaw opening:	35 mm (1.38 in.)
Display counts	0–6000
Measuring rate	3 times per second
Calibration cycle	1 year calibration cycle recommended
Auto power off	Programmable: off, 1, 2, 5, or 10 minutes
Power source	4 × 1.5 V AAA alkaline batteries
Battery life	Clamp mode ~10 hours; IGMTM mode 3 hours (with alkaline batteries and worklight off)

Environmental data	
Operational temperature	–10 to +10°C (14–50°F) (non-condensing) 10–30°C (50–86°F) (≤80% relative humidity (RH)) 30–40°C (86–104°F) (≤75% RH) 40–50°C (104–122°F) (≤45% RH)
Storage temperature	–20 to +60°C (4–140°F)
Relative humidity	0–80% RH (batteries not installed)
Temperature coefficient	0.2 × (specified accuracy)/°C, <18°C (64.4°F), >28°C (82.4°F)
Operating altitude	2000 m (6562 ft.)
Pollution degree	2
Drop test	2 m (6.6 ft.)

Physical data	
Dimensions: (D × W × L)	43 mm × 89 mm × 241 mm (1.7 in. × 3.5 in. × 9.5 in.)
Weight:	426 g (15.0 oz.) including batteries
Batteries	4 × 1.5 V AAA alkaline batteries

Warranty	
Warranty	10 years on the product, 10 years on the detector with registration

Certifications	
Agency approvals	CE, RCM, KC
Certifications	UL, cUL
Safety category rating	EN 61010-1 CAT IV-600 V, CAT III-1000 V, EN 61010-2-032

Shipping information	
Packaging type	Retail color box
Packaging contents	CM174, 4 × AAA batteries, premium CAT IV silicone test leads, quick start guide, user manual (CD), warranty registration card
Packaging weight	0.8 kg (1.8 lb.)
Packaging dimensions (H × W × L)	33 cm × 14 cm × 12 cm (13 in. × 5.5 in. × 4.75 in.)
Master carton weight	11.8 kg (26.1 lb.)
Master carton dimensions (H × W × L)	62.3 cm × 29.3 cm × 36.1 cm (24.6 in. × 11.6 in. × 14.3 in.)



FLIR CM174: Imaging 600A AC/DC Clamp Meter with IGM

P/N: CM174

Revision

42518

Last modified

2017-05-08 16:37 UTC+1

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Shipping information	
Master carton quantity	12
UPC	793950371749
EAN	0793950371749
Country of origin	Taiwan
Tariff code	9030.31.0000

Accessories	
TA72	Universal Flex Current Probe Accessory (10 in.)
TA74	Universal Flex Current Probe Accessory (18 in.)
TA80	CAT IV Silicone Test Leads
TA70	CAT IV Insulated Alligator Probes
TA55	AC Current Line Splitter (120 V, US plug)

Technical support	
Website	http://support.flir.com
E-mail	TMSupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

FLIR CM275: Industrial Thermal Imaging Clamp Meter with Datalogging, Wireless Connectivity, and IGM

P/N: CM275

Revision

45660

Last modified

2017-10-05 22:03 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Part number	CM275
Part name	Industrial Thermal Imaging Clamp Meter with Datalogging, Wireless Connectivity, and IGM
<p>The FLIR CM275 clamp meter combines thermal imaging with electrical measurement in a powerful inspection, troubleshooting, and diagnostic tool. Through Infrared Guided Measurement (IGM), it provides a fast, reliable way to identify hot spots and overloaded circuits from a safe distance. Confirm your findings with the clamp meter's wide range of functions plus temperature readings. The FLIR CM275 provides wireless connectivity for direct connection to the FLIR Tools app and the FLIR InSite professional workflow management solution. When you choose the FLIR CM275 clamp meter, inspecting and servicing plant equipment and facilities becomes safer and more efficient.</p>	
<p>Troubleshoot faster and more safely:</p> <ul style="list-style-type: none"> • Identify electrical issues quickly with the power of IGM. • Scan entire targets for electrical issues with 160 × 120 thermal resolution. • Safely check for live connections using non-contact temperature measurement. • Pinpoint exact hot spot locations using laser and cross-hairs. • Easily reach awkward, dark locations using the narrow jaws and built-in worklights. 	
<p>Diagnose efficiently:</p> <ul style="list-style-type: none"> • Quickly verify problems, check loads, and validate hot spots. • Diagnose complex systems with high- and low-voltage measurement capabilities. • Use advanced electrical features including VFD mode, true RMS, and LoZ. • Expand measurement capabilities to 3000 A AC with FLIR Flex Clamp accessories. • Rely on the protection of CAT IV—600V, CAT III—1000 V safety ratings. 	
<p>Document and share results:</p> <ul style="list-style-type: none"> • Store data onboard or share wirelessly for improved workflow. • Store electrical measurements and thermal images internally, for later review. • Wirelessly connect to FLIR Tools or the FLIR InSite workflow management app for streamlined documentation, reporting, and information sharing. 	
Static data logging and storage	
Data storage interval, configurable	1–99 s
Readings per memory set	40 000
Maximum number of memory sets	10
Thermal image storage	
Maximum number of images	100
Connectivity	
Wireless technology	Bluetooth BLE
Communications protocol	METERLINK



FLIR CM275: Industrial Thermal Imaging Clamp Meter with Datalogging, Wireless Connectivity, and IGM

P/N: CM275

Revision

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Website

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Customer support

<http://support.flir.com>

Thermal imaging	
Detector type	FLIR Lepton; micro-bolometer focal plane array
Infrared (IR) imaging resolution (V × H)	160 × 120 pixels
IR imaging field of view (V × H)	50° × 38°
IR imaging spectral response	8–14 μm
Thermal sensitivity	150 mK (0.15°C)
IR image capture frequency	9 Hz
IR image color palettes	Rainbow, Iron, Gray scale
Laser pointer	Class I (red)
Laser pointer power	<0.4 mW
IR temperature measurement range	-10 to 150°C (14–302°F)
Over- and under-range indication	OL
Temperature reading stabilization	Dashes are displayed for approximately 30 s as the temperature reading stabilizes
IR temperature resolution	0.1°C (0.1°F)
IR temperature accuracy	±3°C (5.4°F) or ± 3% of the reading (whichever is greater) for temperatures >25°C (77°F), ±5°C for temperatures -10°C to 25°C (14°F–77°F)
Distance-to-spot (D:S) ratio	30:1
Emissivity adjustment	0.95 maximum, 4 presets plus a custom setting (0.10–0.99)
Targeting	Displayed cross-hairs pinpoint the center of the measurement spot
Hold	Image with measurement

Electrical measurement	
True RMS voltage and current	Yes
Auto-ranging	Yes, with manual range option
AC/DC V	1000 V RMS AC or 1000 V DC ± 1.0%
VFD AC V	1000 V AC RMS, 45–65 Hz, ± 1%
AC/DC LoZ V	1000 V AC RMS, 45–65 Hz, or 10000 V DC ± 1%
AC/DC A	600.0 A AC RMS, 45–400 Hz, or 600.0 A DC ± 2%
VFD AC A	600.0 A, 45–65 Hz, ± 2%
AC A inrush	600.0 A ± 3%
Frequency counter	60.00 kHz ± 0.1%
Resistance	6.000 kΩ ± 1.0%
Continuity	Beep below 30 Ω
Diode test	1.5 V ± 1.5%
Capacitance	1000 μF ± 1.0%
Flex input AC A	3000 A, 45–400 Hz, ± 1%
Flex input frequency counter	10.00 kHz ± 0.1%
Additional measurement functions	DCA zero, data hold, minimum/maximum

General	
Worklights	Dual white LEDs



FLIR CM275: Industrial Thermal Imaging Clamp Meter with Datalogging, Wireless Connectivity, and IGM

P/N: CM275

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

General	
Jaw opening	35 mm (1.38 in.)
Display counts	0–6000
Measuring rate	3 times per second
Calibration cycle	1 year calibration cycle recommended
Auto power off	Programmable: off, 1, 2, 5, or 10 minutes
Power source	3 × AA Energizer L91 lithium (Li/FeS ₂) batteries or optional TA04 lithium polymer rechargeable battery system
Battery life, Energizer L91 lithium batteries	Approximately 12 hours constant IGM
Battery life, TA04 lithium polymer batteries	Approximately 12 hours constant IGM

Environmental data	
Operational temperature	0–30°C (32–86°F) (≤80% relative humidity (RH)), 30–40°C (86–104°F) (≤75% RH), 40–50°C (104–122°F) (≤45% RH)
Storage temperature	–20 to 60°C (4–140°F) (0–80% RH (batteries not installed))
Temperature coefficient	0.2 × (specified accuracy)/°C, <18°C (64.4°F), >28°C (82.4°F)
Operating altitude	2000 m (6562 ft.)
Pollution degree	2
Drop test	2 m (6.6 ft.)

Physical data	
Dimensions (D × W × L)	48.5 mm × 97 mm × 255 mm (1.91 in. × 3.82 in. × 10.04 in.)
Weight	460 g (16.2 oz.) without batteries

Warranty	
Warranty	10 years for the product, 10 years for the detector with registration

Certifications	
Agency approvals	C-UL-US, CE, RCM
Safety category rating	EN 61010—1 CAT IV—600 V, CAT III—1000 V, EN 61010-2-032

Shipping information	
Packaging type	Retail color box
Packaging contents	CM275, 3 × AA L91 lithium batteries, premium CAT IV silicone test leads, soft carrying case, quick start guide, warranty registration card
Packaging weight	1.3 kg (2.8 lb.)
Packaging dimensions (H × W × L)	33 cm × 14 cm × 11 cm (13 in. × 5.5 in. × 4.33 in.)
Master carton weight	16.5 kg (36.4 lb.)
Master carton dimensions (H × W × L)	65 cm × 30 cm × 56 cm (25.6 in. × 11.8 in. × 22.0 in.)
Master carton quantity	12
UPC	793950372753



FLIR CM275: Industrial Thermal Imaging Clamp Meter with Datalogging, Wireless Connectivity, and IGM

P/N: CM275

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Shipping information	
EAN	0793950372753
Country of origin	Taiwan
Tariff code	9027504020

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Included in the box	
CM275 Industrial Thermal Imaging Clamp Meter with Datalogging, Wireless Connectivity, and IGM	
TA82 Premium Silicone Test Leads	
Soft-sided carrying case	
3 xL91 (AA) lithium batteries	

Optional accessories	
TA72 Universal Flex Current Probe Accessory 10 in. (25 cm)	
TA74 Universal Flex Current Probe Accessory 18 in. (45 cm)	
TA04-KIT Lithium Polymer Rechargeable Battery Kit	
TA52 Magnet Mount	
TA42 Belt Clip	
TA10-F Protective Case for FLIR DMMs and TA7X	
TA55 Line Splitter	
TA70 Alligator Clips	

P/N: DM62

Revision

45682

Last modified

2017-10-09 09:15 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Part number	DM62
Part name	TRMS Digital Multimeter with Non-contact Voltage

The FLIR DM62 digital multimeter combines a rich feature set, precise measurements, and quality for exceptional value. The meter is easy to use and built to last, offering long-term stability for everyday use. It is the right choice for DIY, or for professionals installing and maintaining commercial electrical and electronic systems.

All the features you need in one tool:

- Rich feature set ideal for various electrical applications.
- Safely check voltage using non-contact voltage detection.
- Measure both AC/DC voltage and AC/DC current (A, mA, μ A).
- Diagnose faults with broad DMM test functions, including variable-frequency drive (low-pass filter), a voltage measurement range up to 600 V, resistance/continuity, and diode.

Fast, efficient troubleshooting and testing:

- Intuitive and simple user interface for more effective and efficient troubleshooting and testing of electrical and electronic systems.
- One-handed operation—compact and ergonomic design with easy-to-access buttons.
- Simplify the task of checking wiring connections and switch operation in noisy work environments with a flashing backlight and audible indication.
- Easy-to-navigate on-screen menu system.

Tough, reliable, high quality:

- High-quality measurements with long-term stability and reliability ensure many years of safe, accurate, and trouble-free operation.
- Take the meter with you anywhere: 2 m drop tested and IP40 rated.
- Work with peace of mind knowing your meter has a CAT IV—300 V, CAT III—600 V safety category rating.
- Make your job easier with helpful features including auto power off, a display backlight, Min/Max/Avg, relative mode, and data hold.

Electrical measurement	
Display count	6000
AC/DC V	600.0 V AC RMS or 600.0 V DC \pm 1%/0.4%
AC/DC mV	600.0 mV \pm 1%/0.4%
VFD AC V	600.0 V AC RMS, 10–100 Hz, \pm 1%
AC/DC A	10.00 A AC RMS or 10.00 A DC \pm 1.5%/1.0%
AC/DC mA range	600.0 mA \pm 1.0%/0.7%
AC/DC μ A range	6000 μ A AC RMS or 6000 μ A DC \pm 1.5%/1.0%
Resistance	60.00 M Ω \pm 0.9%
Continuity check threshold	30–480 Ω
Diode test	3.000 V \pm 0.9%
Measuring rate	5 samples per second



FLIR DM62: TRMS Digital Multimeter with Non-contact Voltage

P/N: DM62

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Electrical measurement	
Accuracy is given as \pm (% of reading)	

Meter data	
Category rating	CAT IV—300 V, CAT III—600 V
IP rating	IP40
Drop test	2 m (6.6 ft.)
Warranty	Limited lifetime warranty
Calibration cycle	Once per year, recommended

Certifications	
Certifications	C-UL-US, CE, RCM
Safety standards compliance	IEC 61010-1 CAT IV—300 V, CAT III—600 V

Power system	
Power requirements	2 × AAA batteries
Battery life, alkaline batteries	400 hours without backlight (alkaline batteries)
Auto power off	32 minutes

Environmental data	
Operating temperature	-10 to 50°C (14–122°F)
Operating humidity	80% to 31°C; decreasing linearly to 50% at 31–50°C
Storage temperature and relative humidity (RH)	-20 to 60°C (-4 to 140°F), 0–80% RH (without batteries)
Temperature coefficient	Nominal $0.15 \times (\text{specified accuracy})/^{\circ}\text{C}$ at -10°C to 18°C (14–64.4°F) or 28–50°C (82.4–122°F), or as otherwise specified
Operating altitude	2000 m (6560 ft.)
Pollution degree	2
EMC	EN61326-1

Meter physical data	
Weight	334 g (11.8 oz.)
Dimensions (L × W × H)	161 mm × 80 mm × 50 mm (6.3 in. × 3.2 in. × 2.0 in.)
Material	Polycarbonate/ABS
Color	Gray, black, and blue

Shipping information	
Packaging type	Color box with view of product in clamshell
Packaging contents	DM62 with integral probe holder, 2 × alkaline batteries (AAA), high-quality silicone test leads, soft carrying case
Packaging weight	1.3 kg (2.9 lb.)
Packaging dimensions (H × W × L)	33 cm × 14 cm × 11 cm (13.0 in. × 5.5 in. × 4.3 in.)
Carton weight	16.5 kg (36.4 lb.)



FLIR DM62: TRMS Digital Multimeter with Non-contact Voltage

P/N: DM62

Revision

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Shipping information	
Carton dimensions (H x W x L)	65 cm x 30 cm x 56 cm (25.6 in. x 11.8 in. x 22.0 in.)
Carton quantity	12
EAN-13	0793950381625
UPC-12	793950381625
Country of origin	Taiwan
Tariff code	9030310000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Included in the box	
DM62 TRMS Multimeter with Integrated Test Lead Holder	
TA80 Premium Silicone Test Leads	
Soft carrying case	

Optional accessories	
TA72 Universal Flex Current Probe Accessory 10 in. (25 cm)	
TA74 Universal Flex Current Probe Accessory 18 in. (45 cm)	
TA10-F Protective Case for FLIR DMMs and TA7X	
TA50 Magnetic Hanging Strap	
TA70 Alligator Clips	

P/N: DM64

Revision

45685

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Part number	DM64
Part name	HVAC TRMS Digital Multimeter with Temperature
<p>The FLIR DM64 is an affordable true RMS digital multimeter with temperature (type K thermocouple) and microamp measurement to test flame sensors. This, coupled with a rich feature set for both high- and low-voltage applications, makes it the ideal tool for HVAC professionals.</p>	
<p>All the features you need in one tool:</p> <ul style="list-style-type: none"> Rich feature set ideal for various electrical applications. Safely check voltage with non-contact voltage detection. Measure both AC/DC voltage and current (A, mA, μA). Diagnose faults with broad DMM test functions, including variable-frequency drive (low-pass filter), a voltage measurement range up to 600 V, LoZ mode, frequency, resistance/continuity, diode, capacitance, and temperature (type K thermocouple). 	
<p>Fast, efficient troubleshooting and testing:</p> <ul style="list-style-type: none"> Intuitive and simple user interface for more effective and efficient troubleshooting and testing of electrical and electronic systems. One-handed operation—compact and ergonomic design with easy-to-access buttons. Simplify the task of checking wiring connections and switch operation in noisy work environments with a flashing backlight and audible indication. Easy-to-navigate on-screen menu system. 	
<p>Tough, reliable, high quality:</p> <ul style="list-style-type: none"> High-quality measurements with long-term stability and reliability ensure many years of safe, accurate, and trouble-free operation. Take the meter with you anywhere: 2 m drop tested and IP40 rated. Work with peace of mind knowing your meter has a CAT IV—300 V, CAT III—600 V safety category rating Make your job easier with helpful features including auto power off, a display backlight, Min/Max/Avg, relative mode, and data hold. 	

Electrical measurement	
Display count	6000
AC/DC V	600.0 V AC RMS or 600.0 V DC \pm 1%/0.4%
AC/DC mV	600.0 mV \pm 1%/0.4%
VFD AC V	600.0 V AC RMS, 10–100 Hz, \pm 1%
AC/DC LoZ V	600.0 V AC RMS or 600.0 V DC \pm 2.0%
AC/DC A	10.00 A AC RMS or 10.00 A DC \pm 1.5%/1.0%
AC/DC mA range	600.0 mA \pm 1.0%/0.7%
AC/DC μ A range	6000 μ A AC RMS or 6000 μ A DC \pm 1.5%/1.0%
Frequency counter, voltage	50.00 kHz \pm 0.1%
Frequency counter, current	5.00 kHz \pm 0.1%
Resistance	60.00 M Ω \pm 0.9%



FLIR DM64: HVAC TRMS Digital Multimeter with Temperature

P/N: DM64

Revision

45685

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Electrical measurement	
Continuity check	Beep between 30 Ω and 480 Ω
Diode test	3.000 V \pm 0.9%
Capacitance	2000 μ F \pm 1.5%, 10.00 mF \pm 4.5%
Temperature, type K thermocouple	-40 to 400°C DMM \pm (1.0% + 1°C) (-40 to 752°F DMM \pm (1.0% + 2°F))
Measuring rate	5 samples per second
<i>Accuracy is given as \pm % of reading)</i>	

Meter data	
Category rating	CAT IV—300 V, CAT III—600 V
IP rating	IP40
Drop test	2 m (6.6 ft.)
Warranty	Limited lifetime warranty
Calibration cycle	Once per year, recommended

Certifications	
Certifications	C-UL-US, CE, RCM
Safety standards compliance	IEC 61010-1 CAT IV—300 V, CAT III—600 V

Power system	
Power requirements	2 \times AAA batteries
Battery life	400 hours without backlight (alkaline batteries)
Auto power off	32 minutes

Environmental data	
Operating temperature	-10 to 50°C (14–122°F)
Operating humidity	80% to 31°C; decreasing linearly to 50% at 31–50°C
Storage temperature and relative humidity (RH)	-20 to 60°C (-4 to 140°F), 0–80% RH (without batteries)
Temperature coefficient	Nominal 0.15 \times (specified accuracy)/°C at -10 to 18°C (14–64.4°F) or 28–50°C (82.4–122°F), or as otherwise specified
Operating altitude	2000 m (6560 ft)
Pollution degree	2
EMC	EN61326-1

Meter physical data	
Weight	334 g (11.8 oz.)
Dimensions (L \times W \times H)	161 mm \times 80 mm \times 50 mm (6.3 in. \times 3.2 in. \times 2.0 in.)
Material	Polycarbonate/ABS
Color	Gray, black, and blue

Shipping information	
Packaging type	Color box with view of product in clamshell



FLIR DM64: HVAC TRMS Digital Multimeter with Temperature

P/N: DM64

Revision

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Shipping information	
Packaging contents	DM64 with integral probe holder, 2 × alkaline batteries (AAA), high-quality silicone test leads, type K thermocouple, soft carrying case
Packaging weight	1.3 kg (2.9 lb.)
Packaging dimensions (H × W × L)	33 cm × 14 cm × 11 cm (13.0 in. × 5.5 in. × 4.3 in.)
Carton weight	16.5 kg (36.4 lb.)
Carton dimensions (H × W × L)	65 cm × 30 cm × 56 cm (25.6 in. × 11.8 in. × 22.0 in.)
Carton quantity	12
EAN-13	0793950381649
UPC-12	793950381649
Country of origin	Taiwan
Tariff code	9030310000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Included in the box	
DM64 HVAC TRMS Digital Multimeter with Temperature	
TA80 Premium Silicone Test Leads	
Thermocouple adapter with type K probe	
Soft carrying case	

Optional accessories	
TA72 Universal Flex Current Probe Accessory 10 in. (25 cm)	
TA74 Universal Flex Current Probe Accessory 18 in. (45 cm)	
TA10-F Protective Case for FLIR DMMs and TA7X	
TA50 Magnetic Hanging Strap	
TA70 CAT IV Insulated Alligator Probes (Slip On)	

P/N: DM66

Revision

45684

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Part number	DM66
Part name	Electrical and Field Service TRMS Multimeter with VFD Mode
<p>The FLIR DM66 digital multimeter combines a rich feature set, precise measurements, and quality for exceptional value. The meter is easy to use and built to last, providing long-term stability for everyday use. The FLIR DM66 has a low impedance (LoZ) mode to prevent ghost voltage from delivering false readings. It measures frequency, diode, capacitance, and temperature, for a comprehensive feature set ideal for commercial electricians and automation field, service or electronics technicians.</p>	
<p>All the features you need in one tool:</p> <ul style="list-style-type: none"> Rich feature set ideal for various electrical applications. Safely check voltage with non-contact voltage detection. Measure both AC/DC voltage and current (A, mA, μA). Diagnose faults with broad DMM test functions, including variable-frequency drive (low-pass filter), a voltage measurement range up to 600 V, LoZ mode, frequency, resistance/continuity, diode, capacitance, and temperature (type K thermocouple). 	
<p>Fast, efficient troubleshooting and testing:</p> <ul style="list-style-type: none"> Intuitive and simple user interface for more effective and efficient troubleshooting and testing of electrical and electronic systems. One-handed operation—compact and ergonomic design with easy-to-access buttons. Simplify the task of checking wiring connections and switch operation in noisy work environments with a flashing backlight and audible indication. Easy-to-navigate on-screen menu system. 	
<p>Tough, reliable, high quality:</p> <ul style="list-style-type: none"> High-quality measurements with long-term stability and reliability ensure many years of safe, accurate, and trouble-free operation. Take the meter with you anywhere: 2 m drop tested and IP40 rated. Work with peace of mind knowing your meter has a CAT IV—300 V, CAT III—600 V safety category rating. Make your job easier with helpful features including auto power off, a display backlight, Min/Max/Avg, relative mode, and data hold. 	

Electrical measurement	
Display count	6000
AC/DC V	600.0 V AC RMS or 600.0 V DC \pm 1%/0.4%
AC/DC mV	600.0 mV \pm 1%/0.4%
VFD AC V	600.0 V AC RMS, 10–100 Hz, \pm 1%
AC/DC LoZ V	600.0 V AC RMS or 600.0 V DC \pm 2.0%
AC/DC A	10.00 A AC RMS or 10.00 A DC \pm 1.5%/1.0%
AC/DC mA range	600.0 mA \pm 1.0%/0.7%
AC/DC μ A range	6000 μ A AC RMS or 6000 μ A DC \pm 1.5%/1.0%
Frequency counter, voltage	50.00 kHz \pm 0.1%



FLIR DM66: Electrical and Field Service TRMS Multimeter with VFD Mode

P/N: DM66

Revision

45684

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Electrical measurement	
Frequency counter, current	5.00 kHz ± 0.1%
Resistance	60.00 MΩ ± 0.9%
Continuity check threshold	30–480 Ω
Diode test	3.000 V ± 0.9%
Capacitance	2000 μF ± 1.5%, 10.00 mF ± 4.5%
Temperature, type K thermocouple	–40 to 400°C DMM ± (1.0% + 1°C) (–40 to 752°F DMM ± (1.0% + 2°F))
Measuring rate	5 samples per second
<i>Accuracy is given as ± % of reading)</i>	

Meter data	
Category rating	CAT IV—300 V, CAT III—600 V
IP rating	IP40
Drop test	2 m (6.6 ft.)
Warranty	Limited lifetime warranty
Calibration cycle	Once per year, recommended

Certifications	
Certifications	C-UL-US, CE, RCM
Safety standards compliance	IEC 61010-1 CAT IV—300 V, CAT III—600 V

Power system	
Power requirements	2 × AAA batteries
Battery life	400 hours without backlight (alkaline batteries)
Auto power off	32 minutes

Environmental data	
Operating temperature	–10 to 50°C (14–122°F)
Operating humidity	80% to 31°C; decreasing linearly to 50% at 31–50°C
Storage temperature and relative humidity (RH)	–20 to 60°C (–4 to 140°F), 0–80% RH (without batteries)
Temperature coefficient	Nominal 0.15 × (specified accuracy)/°C at –10 to 18°C (14–64.4°F) or 28–50°C (82.4–122°F), or as otherwise specified
Operating altitude	2000 m (6560 ft.)
Pollution degree	2
EMC	EN61326-1

Meter physical data	
Weight	334g (11.8 oz.)
Dimensions (L × W × H)	161 mm × 80 mm × 50 mm (6.3 in. × 3.2 in. × 2.0 in.)
Material	Polycarbonate/ABS
Color	Gray, black, and blue



FLIR DM66: Electrical and Field Service TRMS Multimeter with VFD Mode

P/N: DM66

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Website

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Customer support

<http://support.flir.com>

Shipping information	
Packaging type	Color box with view of product in clamshell
Packaging contents	DM66 with integral probe holder, 2 × alkaline batteries (AAA), high-quality silicone test leads, alligator clips, soft carrying case
Packaging weight	1.3 kg (2.9 lb.)
Packaging dimensions (H × W × L)	33 cm × 14 cm × 11 cm (13.0 in. × 5.5 in. × 4.3 in.)
Carton weight	16.5 kg (36.4 lb.)
Carton dimensions (H × W × L)	65 cm × 30 cm × 56 cm (25.6 in. × 11.8 in. × 22.0 in.)
Carton quantity	12
EAN-13	0793950381663
UPC-12	793950381663
Country of origin	Taiwan
Tariff code	9030310000

Technical support	
Website	http://support.flir.com
E-mail	TMSupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Included in the box	
DM66 Electrical and Field Service TRMS Multimeter with VFD Mode	
TA80 Premium Silicone Test Leads	
TA70 Alligator Clips	
Soft carrying case	

Optional accessories	
TA72 Universal Flex Current Probe Accessory 10 in. (25 cm)	
TA74 Universal Flex Current Probe Accessory 18 in. (45 cm)	
TA10-F Protective Case for FLIR DMMs and TA7X	
TA50 Magnetic Hanging Strap	
TA60 Thermocouple Adapter with Type K Probe	

P/N: DM90

Revision

42562

Last modified

2017-05-09 13:44 UTC+1

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Website

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Customer support

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Part number	DM90
Part name	True RMS Industrial Multimeter
<p>The FLIR DM90 is an affordable true RMS digital multimeter with a type-K thermocouple—an ideal tool for electricians, service technicians and HVAC professionals to have on the job. Equipped with rich features, including LoZ, VFD mode, and μA current measurement capability, the FLIR DM90 gives you trusted readings to troubleshoot and repair a wide range of electrical and electronic systems. The FLIR DM90 is shipped fully tested and calibrated, and with proper use will provide years of reliable service.</p>	
<p>Design and functionality vital to professionals:</p> <ul style="list-style-type: none"> • Built-in worklight to help you access difficult locations with lighting issues. • Non-contact voltage detector. • Intuitive and simple-to-operate user interface. • Durable and drop tested to 3 m (9.8 ft.). • IP54 splash-proof rated. • 18 functions, including DC voltage, AC voltage, DC current (including μA), AC current (including μA), resistance, type-K thermocouple contact temperature, capacitance, frequency, diode, continuity. 	
<p>Features: minimum, maximum, average, auto power off, hold, relative, peak hold.</p>	

Electrical measurement	
Maximum voltage	1000 V DC or 1000 V AC RMS
Display count	6000
Frequency counter	<ul style="list-style-type: none"> • 100.00 Hz \pm (0.1% + 2D) • 1000.0 Hz \pm (0.1% + 2D) • 10.000 kHz \pm (0.1% + 2D) • 100.00 kHz \pm (0.1% + 2D)
Resistance	<ul style="list-style-type: none"> • 600.0 Ω \pm (0.9% + 5D) • 6.000 kΩ \pm (0.9% + 2D) • 60.00 kΩ \pm (0.9% + 2D) • 600.0 kΩ \pm (0.9% + 2D) • 6.000 MΩ \pm (0.9% + 2D) • 50.00 MΩ \pm (3.0% + 5D)
Continuity check	600.0 Ω \pm (0.9% + 5D)
Diode test	1.500 \pm (0.9% + 2D)
Capacitance	<ul style="list-style-type: none"> • 1000 nF \pm (1.9% + 5D) • 10.00 μF \pm (1.9% + 2 digits) • 100.0 μF \pm (0.9% + 2 digits) • 1.000 mF \pm (0.9% + 2 digits) • 10.00 mF \pm (0.9% + 2 digits) • 40.00 mF \pm (2.0% + 20 digits)
Temperature, type-K thermocouple	<ul style="list-style-type: none"> • -40 to +752.0°F DMM \pm (1.0% + 5.4°F)/ IGM \pm (1.0% + 9°F) • -40 to +400°C DMM \pm (1.0% + 3°C)/ IGM \pm (1.0% + 5°C)
Measuring rate	3 samples per second



FLIR DM90

P/N: DM90

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Meter data	
Category rating	CAT IV—600 V, CAT III—1000 V
IP rating	IP54
Drop test	3 m (9.8 ft.)
Warranty	Limited lifetime
Calibration cycle	Once per year, recommended

Certifications	
Certifications	UL, CE, FCC, CB
Safety standards compliance	IEC 61010-1 CAT IV—600 V, CAT III—1000 V

Power system	
Power requirements	4 × 1.5 V AAA alkaline batteries or optional FLIR TA04 lithium polymer rechargeable battery system
Battery life, alkaline batteries	Approximately 110 hours with backlight and worklight off
Battery life, lithium polymer battery (optional)	Approximately 500 hours with backlight and worklight off
Auto power off	Default: 20 minutes

Environmental data	
Operating ambient temperatures and relative humidity (RH)	<ul style="list-style-type: none">• -10 to +30°C (14–86°F), <85% RH• 30 to +40°C (86–104°F), <75% RH• 40–50°C (104–122°F), <45% RH
Storage temperature and RH	-20 to +60°C (-4 to +140°F), 0–80% RH (without batteries)
Temperature coefficient	0.1 × (specified accuracy)/°C, <18°C (64.4°F), >28°C (82.4°F)
Operating altitude	2000 m (6560 ft.)
Pollution degree	2
EMC	EN61326-1
Shock vibration	Per MIL-PRF-28800F Class 2

Meter physical data	
Weight	536 g (18.9 oz.)
Dimensions (L × W × H)	200 mm × 95 mm × 49 mm (7.9 in. × 3.7 in. × 1.9 in.)
Material	PC/ABS
Color	Gray, black, and blue

Shipping information	
Packaging type	Color box with view of product in clamshell
Packaging contents	DM90 FLIR meter, TA82 premium test leads, TA70 alligator clips, TA60 thermocouple probe with adapter, TA84 test lead holder storage/tripod accessory, 4 × AAA Energizer batteries, English-only quick start guide
Packaging weight	1.2 kg (2.6 lb.)
Packaging dimensions (H × W × L)	32 cm × 14 cm × 11 cm (12.6 in. × 5.5 in. × 4.3 in.)
Carton weight	15 kg



FLIR DM90

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Shipping information	
Carton dimensions (H x W x L)	65 cm x 30 cm x 56 cm (25.6 in. x 11.8 in. x 22.0 in.)
Carton quantity	12
EAN-13	0793950370841
UPC-12	793950370841
Country of origin	Taiwan
Tariff code	9030310000

Technical support	
Website	http://support.flir.com
E-mail	TMSupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Accessories (included in the box)	
TA82	Premium Silicone Test Leads
TA84	Test Lead Storage/Tripod Accessory
TA70	CAT IV Insulated Alligator Probes (Slip On)
TA60	Thermocouple Adapter with Type K Probe

Accessories (optional)	
TA72	Universal Flex Current Probe Accessory 25 cm (10 in.)
TA74	Universal Flex Current Probe Accessory 45 cm (18 in.)
TA04-KIT	Lithium Polymer Rechargeable Battery Kit
TA15	Soft Sided Carrying case
TA52	Magnet Mount
TA50	Magnetic Hanging Strap
TA42	Belt Clip
TA10	Protective Case for FLIR DMMs
TA10-F	Protective Case for FLIR DMMs and TA7X

P/N: DM91

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Website

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Part number	DM91
Part name	Industrial TRMS Multimeter with Datalogging and Wireless Connectivity
<p>The FLIR DM91 is an affordable, safe, and reliable digital multimeter for a wide range of electrical and electronic system applications. With its durable design, intuitive user interface, and comprehensive features covering high- and low-voltage applications, the FLIR DM91 is uniquely positioned to help you troubleshoot electrical, electronic, and HVAC/R systems. The FLIR DM91 also has Bluetooth technology, so you can connect via METERLiNK to compatible FLIR infrared cameras, or to mobile devices running the FLIR Tools app.</p>	
<p>Fast and effective troubleshooting:</p> <ul style="list-style-type: none"> Rich feature set ensures safe and accurate operation. Diagnose complex systems with high- and low-voltage measurement capabilities. Measure true RMS, LoZ, and VFD, as well as microamp and milliamp current. Assess temperatures up to 400°C with the type K thermocouple. Work safely with the built-in, non-contact AC voltage detector. 	
<p>Work efficiently:</p> <ul style="list-style-type: none"> Designed and built to make your job easier. Set up and start working fast owing to an intuitive user interface and enhanced ergonomics. Work longer with flexible battery options, powerful LED worklights, and a rugged, drop-tested design. Record results with datalogging and storage of up to 40 000 scalar measurements. Rely on the protection of CAT IV—600 V, CAT III—1000 V safety ratings. 	
<p>Document and share results:</p> <ul style="list-style-type: none"> View and share information wirelessly for an improved workflow. Send readings via METERLiNK to compatible FLIR infrared cameras to embed data into live or saved thermal images. Wirelessly connect to FLIR Tools or the FLIR InSite workflow management app for streamlined documentation and information sharing. 	
Static datalogging and storage	
Data storage interval, configurable	1–99 seconds
Readings per memory set	40 000
Maximum number of memory sets	1
Connectivity	
Wireless technology	Bluetooth BLE
Communications protocol	METERLiNK
Electrical measurement	
Display count	6000
AC/DC V	1000 V AC RMS or 1000 V DC ± 1%/0.09%
AC/DC mV	600.0 mV ± 1%/0.5%



FLIR DM91: Industrial TRMS Multimeter with Datalogging and Wireless Connectivity

P/N: DM91

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Electrical measurement	
VFD AC V	1000 V AC RMS, 45–65 Hz, $\pm 1\%$
AC/DC LoZ V	1000 V AC RMS or 1000 V DC $\pm 2.0\%$
AC/DC A	10.00 A AC RMS or 10.00 A DC $\pm 1.5\%/1.0\%$
AC/DC mA range	400.0 mA $\pm 1.5\%/1.0\%$
AC/DC μ A range	4000 μ A AC RMS or 4000 μ A DC $\pm 1.0\%$
Frequency counter	100.00 kHz $\pm 0.1\%$
Resistance	6.000 M Ω $\pm 0.9\%$, 50.00 M Ω $\pm 3.0\%$
Continuity check threshold	20–200 Ω
Diode test	1.500 V $\pm 0.9\%$
Capacitance	10.00 mF $\pm 1.9\%$
Temperature, type K thermocouple	–40 to 400°C DMM $\pm (1.0\% + 3^\circ\text{C})$ /IGM $\pm (1.0\% + 5^\circ\text{C})$ (–40 to 752°F DMM $\pm (1.0\% + 5.4^\circ\text{F})$ /IGM $\pm (1.0\% + 9^\circ\text{F})$)
Measuring rate	3 samples per second
<i>Accuracy is given as \pm (% of reading)</i>	

Meter data	
Category rating	CAT IV—600 V, CAT III—1000 V
IP rating	IP40
Drop test	3 m (9.8 ft.)
Warranty	Limited lifetime warranty
Calibration cycle	Once per year, recommended

Certifications	
Certifications	C-UL-US, CE, RCM
Safety standards compliance	IEC 61010-1 CAT IV—600 V, CAT III—1000 V

Power system	
Power requirements	3 \times AA alkaline batteries or optional TA04 lithium polymer rechargeable battery system
Battery life, alkaline batteries	Approximately 180 hours with backlight and worklight off
Battery life, TA04 lithium polymer batteries	Approximately 500 hours with backlight and worklight off
Auto power off	Default: 10 minutes

Environmental data	
Operating ambient temperatures and relative humidity (RH)	–10 to 30°C (14–86°F), <85% RH; 30–40°C (86–104°F), <75% RH; 40–50°C (104–122°F), <45% RH
Storage temperature and RH	–20 to 60°C (–4 to 140°F), 0–80% RH (without batteries)
Temperature coefficient	0.1 \times (specified accuracy)/°C, <18°C (64.4°F), >28°C (82.4°F)
Operating altitude	2000 m (6560 ft.)
Pollution degree	2
EMC	EN61326-1



FLIR DM91: Industrial TRMS Multimeter with Datalogging and Wireless Connectivity

P/N: DM91

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Customer support

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Meter physical data	
Weight	535 g (19.8 oz.)
Dimensions (L x W x H)	200 mm x 95 mm x 49 mm (7.9 in. x 3.7 in. x 1.9 in.)
Material	Polycarbonate/ABS
Color	Gray, black, and blue

Shipping information	
Packaging type	Color box with view of product in clamshell
Packaging contents	DM91 FLIR meter, TA82 premium test leads, TA70 alligator clips, TA60 thermocouple probe with adapter, TA84 test lead holder storage/tripod accessory, 3 x AA alkaline batteries, soft carrying case, English-only quick start guide
Packaging weight	1.2 kg (2.6 lb.)
Packaging dimensions (H x W x L)	32 cm x 14 cm x 11 cm (12.6 in. x 5.5 in. x 4.3 in.)
Carton weight	15 kg (33.0 lb.)
Carton dimensions (H x W x L)	65 cm x 30 cm x 56 cm (25.6 in. x 11.8 in. x 22.0 in.)
Carton quantity	12
EAN-13	0793950370919
UPC-12	793950370919
Country of origin	Taiwan
Tariff Ccode	9030310000

Technical support	
Website	http://support.flir.com
E-mail	TMSupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Included in the box	
DM91 Industrial TRMS Multimeter with Datalogging and Wireless Connectivity	
TA82 Premium Silicone Test Leads	
TA84 Test Lead Storage/Tripod Accessory	
TA60 Thermocouple Adapter with Type K Probe	
TA70 CAT IV Insulated Alligator Probes (Slip On)	
Soft-sided carrying case	

Optional accessories	
TA72 Universal Flex Current Probe Accessory 10 in. (25 cm)	
TA74 Universal Flex Current Probe Accessory 18 in. (45 cm)	
TA04-KIT Lithium Polymer Rechargeable Battery Kit	
TA52 Magnet Mount	



FLIR DM91: Industrial TRMS Multimeter with Datalogging and Wireless Connectivity

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Customer support

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Optional accessories	
TA50 Magnetic Hanging Strap	
TA42 Belt Clip	
TA10 Protective case for FLIR DMMs	
TA10-F Protective case for FLIR DMMs and TA7X	

P/N: DM92

Revision

42564

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2017-05-09 13:48 UTC+1

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Website

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Customer support

<http://support.flir.com>



Part number	DM92
Part name	Industrial Digital Multimeter with LoZ and VFD Mode
<p>The FLIR DM92 is an industrial-grade digital multimeter built for durability to ensure longevity in rugged environments.</p> <ul style="list-style-type: none"> • Variable frequency drive (VFD) mode filters noisy variable-frequency drives and enables accurate voltage and frequency measurements for maintenance and trouble-shooting tasks. • Low impedance (LoZ) eliminates ghost voltage errors from long wires that share a conduit. • Convenient LED work lights assist with focusing on test leads without the need to also hold a flashlight. 	
<p>Functions: DC voltage, AC voltage, DC current, AC current, resistance, type K thermocouple contact temperature, capacitance, frequency, diode, continuity, duty cycle.</p>	
<p>Features: VFD mode, LoZ mode, minimum, maximum, average recording, auto power off, hold, relative, peak hold, store, recall.</p>	

Measurement	
Maximum voltage	1000 V DC or 1000 V AC RMS
Display count	4000/40 000
Frequency counter	400.00 Hz ± 5 digits 4.0000 kHz ± 5 digits 40.000 kHz ± 5 digits 100.00 kHz ± 5 digits
Resistance	400.0 Ω ± (0.2% + 2 digits) 4.000 kΩ ± (0.2% + 1 digit) 40.00 kΩ ± (0.2% + 1 digit) 400.0 kΩ ± (0.2% + 1 digit) 4.000 MΩ ± (1.0% + 1 digits) 40.00 MΩ ± (2.0% + 20 digits)
Continuity check	400.0 Ω ± (0.2% + 2 digits)
Diode test	2.000 ± (1.5% + 2 digits)
Capacitance	40.00 nF ± (1.2% + 20 digits) 400.0 nF ± (0.9% + 2 digits) 4.000 μF ± (0.9% + 2 digits) 40.00 μF ± (0.9% + 2 digits) 400.0 μF ± (0.9% + 2 digits) 4.000 mF ± (1.2% + 20 digits) 40.00 mF ± (2.0% + 20 digits)
Temperature	-328 to 2192°F ± (1.0% + 36 digits), -200 to 1200°C ± (1.0% + 20 digits)
Measuring rate	10 samples per second



FLIR DM92: Industrial Digital Multimeter with LoZ and VFD Mode

P/N: DM92

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Meter data	
Category rating	CAT IV—600 V, CAT III—1000 V
Data recording	20 000 points (125 days maximum)
Warranty	Limited lifetime warranty
Calibration cycle:	Once per year, recommended

Certifications	
Certifications	UL, CE, FCC, CB
Safety standards compliance	IEC 61010-1 CAT IV—600 V, CAT III—1000 V, IEC 61010-2-033

Power system	
Power requirements	6 × 1.5 V AAA alkaline batteries
Battery life	Approximately 100 hours with batteries (backlight and work light off)
Auto power off	Default: 10 minutes

Environmental data	
Operating ambient temperatures and relative humidity (RH)	14–86°F (–10 to 30°C), <85% RH 86–104°F (30–40°C), <75% RH 104–122°F (40–50°C), <45% RH
Storage temperature and RH	–22 to 140°F (–30 to –60°C), 0–80% RH (batteries not fitted)
Temperature coefficient	0.1 × (specified accuracy)/°C, <18°C, >28°C
Operating altitude	6560' (2000 m)
Pollution degree	2
EMC	EN61326-1
Shock vibration	Per MIL-PRF-28800 for a Class 2 instrument

Meter physical data	
Weight	16.4 oz. (465 g) including batteries
Dimensions (H × W × L)	2.0" × 3.2" × 7.4" (52 mm × 83 mm × 188 mm) with holster
Material	PC-ABS, TPE
Color	Gray and black

Shipping information	
Packaging type	Color box with view of product in clamshell
Packaging contents	DM92 FLIR meter, TA80 premium test leads, 6 × AAA Energizer batteries, user manual/CD
Packaging weight	1.04 kg (2.29 lb.)
Packaging dimensions (H × W × L)	11 cm × 14 cm × 32 cm (4.3" × 5.5" × 12.6")
Carton weight	13.5 kg (29.5 lb.)
Carton dimensions (H × W × L)	13 7/8" × 11 1/2" × 24 1/8"
Carton quantity	12
EAN-13	0793950370926
UPC-12	793950370926



FLIR DM92: Industrial Digital Multimeter with LoZ and VFD Mode

P/N: DM92

Revision

42564

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Shipping information	
Country of Origin	Taiwan
Tariff Code	9030310000

Technical support	
Website	http://support.flir.com
E-mail	TMSupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Accessories	
TA10. EVA Protective case for DM9x and IM7x Series	
TA50. Magnetic Hanging Strap	
TA60. Thermocouple Adapter with Type K Probe	
TA70. CAT IV Insulated Alligator Probes (Slip On)	
TA80. CAT IV Silicone Test Leads	

P/N: DM93

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The FLIR DM93 is a world-class digital multimeter with advanced variable-frequency drive (VFD) filtering to help you accurately analyze non-traditional sine waves and noisy signals found in VFD-controlled equipment.

- VFD mode filters VFD signals and provides accurate voltage and frequency measurements during maintenance and troubleshooting.
- LoZ mode eliminates ghost voltage readings associated with long-run applications.
- Powerful work lights eliminate the need for a flashlight while performing tests in dim lighting.
- The data record feature captures electrical measurements and provides wireless data transfer.
- Integrated Bluetooth technology connects the FLIR DM93 to the FLIR Tools Mobile app on your compatible mobile device.
- METERLINK technology wirelessly integrates electrical readings on your infrared image with FLIR thermal cameras.

Features:

Voltage and current, bright white LED backlight, analog bargraph, auto AC/DC voltage, minimum, maximum, average recording, auto power off, hold, relative, peak hold, store, recall.

Measurement

DC voltage	1000.0 V \pm 0.05%
AC voltage	1000.0 V \pm 0.5%
VFD voltage	1000.0 V \pm 0.5%
DC current	10.000 A \pm 0.2%
AC current	10.000 A \pm 1.0%
Resistance	40.00 M Ω \pm 0.2%
Continuity threshold	30 Ω \pm 0.2%
Frequency	100.00 kHz \pm 5 digits
Capacitance	40.00 mF \pm 0.9%
Temperature	-200 to 1200°C (-328 to 2192°F) \pm 1.0%
Diode test	2V \pm 1.5%
Maximum voltage applied to any terminal	1000 V DC or 1000 V AC RMS
ACV Bandwidth	20 kHz
ACA Bandwidth	10 kHz
Measuring rate:	10 samples per second

Meter data

Bluetooth range (maximum)	10 m (32')
Display counts	40 000



FLIR DM93

P/N: DM93

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Meter data	
Category rating	CAT IV-600 V, CAT III-1000 V
Data recording	20 000 points (125 days maximum)
Warranty	Limited lifetime
Calibration cycle	Once per year (suggested)

Certifications	
Certifications	UL, CE, FCC, CB
Complies with safety standards	IEC 61010-1 CAT IV-600 V and CAT III-1000 V, IEC 61010-2-33

Power system	
Power requirements	6 × 1.5 V AAA alkaline batteries
Battery life	~100 hours with alkaline batteries (backlight, work light, and Bluetooth off)
Low battery voltage	~7.0 V
Auto power off	Default: 10 minutes

Environmental data	
Drop test	3 m (9.8 ft.)
IP rating	IP54 dust-protected and splash-resistant
Operating ambient temperatures and relative humidity (RH)	<ul style="list-style-type: none">-10 to 30°C (14–86°F), <85% RH30–40°C (86–104°F), <75% RH40–50°C (104–122°F), <45% RH
Storage temperature and RH	-30 to 60°C (-22 to 140°F), 0–80% RH (batteries not fitted)
Temperature coefficient	0.1 × (specified accuracy)/°C, <18°C, >28°C
Operating altitude	2000 m (6550')
Pollution degree	2
Electromagnetic compatibility	EN 61326-1
Shock vibration	Random vibration per MIL-PRF-28800f Class 2 (5–55 Hz, 3g maximum)

Meter physical data	
Weight	465 g (1 lb.) including batteries
Dimensions (H × W × L)	52 mm × 83 mm × 188 mm (2.0" × 3.2" × 7.4")
Material	<ul style="list-style-type: none">Polycarbonate and acrylonitrile butadiene styrene (PC-ABS)Thermoplastic elastomer (TPE)
Color	Gray, black

Shipping information	
Packaging type	Color box with view of product in clamshell
Packaging contents	<ul style="list-style-type: none">DM93 FLIR meterTA80 premium test leadsType K temperature probe (400°F, 204°C)Magnetic hanging strap6 × AAA Energizer batteriesUser manual/CD
Packaging weight	1.04 kg (2.29 lb.)
Packaging dimensions (H × W × L)	11 cm × 14 cm × 32 cm (4.3" × 5.5" × 12.6")



FLIR DM93

P/N: DM93

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Shipping information	
Carton weight	20.8 kg (45.9 lb.)
Carton dimensions (H x W xL)	65 cm x 30 cm x 56 cm (25.6" x 11.8" x 22.0")
Carton quantity	20
EAN-13	0793950370933
UPC-12	793950370933
Country of origin	Taiwan
Tariff code	9030310000

Accessories	
TA80	CAT IV silicon test leads

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

P/N: DM166

Revision

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Website

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Customer support

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Part number	DM166
Part name	Thermal Imaging TRMS Multimeter with IGM
<p>The FLIR DM166 is FLIR's most affordable multimeter with built-in thermal imaging to date—a must-have tool for commercial electricians and automation, electronics, and HVAC technicians. Featuring Infrared Guided Measurement (IGM) powered by an 80 × 60 FLIR thermal imager, the FLIR DM166 visually guides you to the precise location of temperature anomalies and potential problems fast, safely, and efficiently. The feature-packed multimeter is an ideal tool for troubleshooting and diagnosing complex issues in both high and low-voltage applications.</p>	
<p>Troubleshoot faster:</p> <ul style="list-style-type: none"> • One tool gets the job done. • Equipped with IGM to quickly scan for overheating components. • Broad DMM test functions to troubleshoot and diagnose the fault. • The unique combination of onboard thermal imaging and traditional DMM test functions makes troubleshooting easier. 	
<p>Work safer:</p> <ul style="list-style-type: none"> • Identify energized and potentially faulty equipment from a safe distance. • Non-contact temperature measurement. • Integrated non-contact voltage detection. • CAT III—600 V, CAT IV—300 V safety ratings. 	
<p>Diagnose problems more efficiently and effectively:</p> <ul style="list-style-type: none"> • Rich feature set covers both high- and low-voltage applications. • 600 V AC/DC voltage measurements and 10 A AC/DC current measurements. • Variable-frequency drive (VFD) measurement function. • Measures resistance up to 60 MΩ, frequency up to 50 kHz, capacitance up to 10 000 μF, and continuity/diode. 	

Thermal imaging	
Detector type	FLIR Lepton; micro-bolometer focal plane array (FPA)
Infrared (IR) imaging resolution (V × H)	80 × 60 pixels
IR imaging field of view (V × H)	50° × 38°
IR imaging spectral response	8–14 μm
Thermal sensitivity	150 mK (0.15°C)
IR image capture frequency	9 Hz
IR image color palettes	Rainbow, Iron, Gray scale
Laser pointer type	Class I (red)
Laser pointer power	<0.4 mW
IR temperature measurement range	–10 to 150°C (14–302°F)
Over- and under-range indication	OL



FLIR DM166: Thermal Imaging TRMS Multimeter with IGM

P/N: DM166

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Customer support

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Thermal imaging	
Temperature reading stabilization	No startup delay
IR temperature resolution	0.1°C (0.1°F)
IR temperature accuracy	±3°C (5.4°F) or ± 3% of the reading (whichever is greater) for temperatures > 25°C (77°F), ±5°C for temperatures -10°C to 25°C (14–77°F)
Distance-to-spot (D:S) ratio	30:1
Emissivity adjustment	0.95 maximum, 4 presets plus a custom setting (0.10–0.99)
Targeting	Displayed cross-hairs pinpoint the center of the measurement spot
Hold	Image with measurement

Electrical measurement	
Display count	6000
AC/DC V	600 V AC RMS or 600 V DC ± 0.7%/0.5%
AC/DC mV	600.0 mV ± 1%/0.3%
VFD AC V	600 V AC RMS, 10–100Hz, ± 1%
AC/DC A	10.00 A AC RMS or 10.00 A DC ± 1.0%/0.7%
AC/DC mA range	600.0 mA ± 1.0%/0.7%
AC/DC µA range	6000 µA AC RMS or 6000 µA DC ± 1.5%/1.0%
Frequency counter	50 kHz ± 0.03%
Resistance	6.000 MΩ ± 0.9%, 60.00 MΩ ± 1.5%
Continuity check threshold	30–480 Ω
Diode test	3.000 V ± 0.9%
Capacitance	2.000 mF ± 2.0%, 10.00 mF ± 5.0%
Temperature, type K thermocouple	-40 to 400°C DMM ± (1.0% + 1.5°C) (-40 to 752°F DMM ± (1.0% + 3°F))
Measuring rate	5 samples per second
<i>Accuracy is given as ± (% of reading)</i>	

Meter data	
Category rating	CAT IV—300 V, CAT III—600 V
IP rating	IP40
Drop test	3 m (9.8 ft.)
Warranty	10-10 limited warranty
Calibration cycle	Once per year, recommended

Certifications	
Certifications	C-UL-US, CE, RCM
Safety standards compliance	IEC 61010-1 CAT IV—600 V, CAT III—1000 V

Power system	
Power requirements	3 × AA Energizer L91 lithium (Li/FeS ₂) batteries or optional TA04 lithium polymer rechargeable battery system
Battery life, Energizer L91 Lithium batteries	Approximately 22 hours constant IGM



FLIR DM166: Thermal Imaging TRMS Multimeter with IGM

P/N: DM166

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Power system	
Battery life, TA04 lithium polymer batteries	Approximately 22 hours constant IGM
Auto power off	5 minutes (default), 10 minutes, 20 minutes, and off selectable

Environmental data	
Operating temperature	-10 to 50°C (14–122°F)
Operating Humidity	80% to 31°C; decreasing linearly to 50% at 31–50°C
Storage temperature and relative humidity (RH)	-20 to 60°C (-4 to 140°F), 0–80% RH (without batteries)
Temperature coefficient	Nominal 0.15 × (specified accuracy)/°C at -10°C to 18°C (14–64.4°F) or 28–50°C (82.4–122°F), or as otherwise specified
Operating altitude	2000 m (6560 ft.)
Pollution degree	2
EMC	EN61326-1

Meter physical data	
Weight	428.3 g (15.1 oz.)
Dimensions (L × W × H)	190 mm × 86.4 mm × 48.3 mm (7.5 in. × 3.4 in. × 1.9 in.)
Material	Polycarbonate/ABS
Color	Gray, black, and blue

Shipping information	
Packaging type	Color box with view of product in clamshell
Packaging contents	DM166, 3 × L91 lithium batteries (AA), high-quality silicone test leads, soft carrying case
Packaging weight	1.3 kg (2.9 lb.)
Packaging dimensions (H × W × L)	33 cm × 14 cm × 11 cm (12.6 in. × 5.5 in. × 4.3 in.)
Carton weight	16.5 kg (36.4 lb.)
Carton dimensions (H × W × L)	65 cm × 30 cm × 56 cm (25.6 in. × 11.8 in. × 22.0 in.)
Carton quantity	12
EAN-13	0793950391662
UPC-12	793950391662
Country of origin	Taiwan
Tariff code	9027504020

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com



FLIR DM166: Thermal Imaging TRMS Multimeter with IGM

P/N: DM166

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Included in the box	
DM166 Thermal Imaging TRMS Multimeter with IGM	
TA80 Premium Silicone Test Leads	
Soft carrying case	

Optional accessories	
TA72 Universal Flex Current Probe Accessory 10 in. (25 cm)	
TA74 Universal Flex Current Probe Accessory 18 in. (45 cm)	
TA04-KIT Lithium Polymer Rechargeable Battery Kit	
TA84 Test Lead Storage/Tripod Accessory	
TA10-F Protective Case for FLIR DMMs and TA7X	
TA50 Magnetic Hanging Strap	



FLIR DM285: Industrial Thermal Imaging Multimeter with Datalogging, Wireless Connectivity, and IGM

P/N: DM285

Revision

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Website

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Customer support

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Part number	DM285
Part name	Industrial Thermal Imaging Multimeter with Datalogging, Wireless Connectivity, and IGM
<p>The FLIR DM285 is an industrial, all-in-one true RMS digital multimeter and thermal imager that can show you exactly where a temperature anomaly is for faster troubleshooting. Featuring Infrared Guided Measurement (IGM) powered by a built-in 160 × 120 FLIR thermal imager, the meter visually guides you to the precise location of a problem. You'll pinpoint issues faster, more safely, and efficiently. Ideal for inspecting industrial electrical, mechanical, HVAC/R, and electronic systems, and can be used for benchtop electronics and in the field. The FLIR DM285 uniquely features Bluetooth METERLINK, and is compatible with the new FLIR InSite workflow management tool that allows you to prepare efficient survey routes, maintain accurate documentation, share information with clients, and file instant reports.</p>	
<p>Work safer and smarter:</p> <ul style="list-style-type: none"> • Thermal imaging allows you to quickly scan for overheating system components, then use the DMM test functions to troubleshoot and diagnose the fault. • Non-contact temperature measurement identifies energized and potentially faulty equipment from a safe distance. • Wirelessly connect to the FLIR InSite professional workflow management tool to streamline inspections and simplify data collection, sharing, and reporting. • Onboard data storage for both electrical parameter data and thermal images. 	
<p>Troubleshoot challenging problems more efficiently and effectively:</p> <ul style="list-style-type: none"> • Fully loaded with features for high- and low-voltage applications. • 18-function DMM including VFD mode, true RMS, LoZ, NCV, a built-in worklight, and a laser pointer. • Measures voltage, current, frequency, resistance, continuity, diode, capacitance, and temperature. • Intuitive menu for ease of use. 	
<p>Design and functionality:</p> <ul style="list-style-type: none"> • An all-in-one tool that's built to last. • Durable and drop tested with a 10-year warranty. • Quick and easy battery changes with the "no tool" battery compartment. • Upgraded display with an improved viewing angle. 	

Static datalogging and storage	
Data storage interval, configurable	1–99 seconds
Readings per memory set	40 000
Maximum number of memory sets	10

Thermal image storage	
Maximum number of images	100

Connectivity	
Wireless technology	Bluetooth BLE
Communications protocol	METERLINK



FLIR DM285: Industrial Thermal Imaging Multimeter with Datalogging, Wireless Connectivity, and IGM

P/N: DM285

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Website

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Customer support

<http://support.flir.com>

Thermal imaging	
Detector type	FLIR Lepton; micro-bolometer focal plane array (FPA)
Infrared (IR) imaging resolution (V × H)	160 × 120 pixels
IR imaging field of view (V × H)	50° × 38°
IR imaging spectral response	8–14 μm
Thermal sensitivity	150 mK (0.15°C)
IR image capture frequency	9 Hz
IR image color palettes	Rainbow, Iron, Gray scale
Laser pointer type	Class I (red)
Laser pointer power	<0.4 mW
IR temperature measurement range	–10 to 150°C (14–302°F)
Over- and under-range indication	OL
Temperature reading stabilization	Dashes are displayed for approximately 30 seconds while the temperature reading stabilizes
IR temperature resolution	0.1°C (0.1°F)
IR temperature accuracy	±3°C (5.4°F) or ±3% of the reading (whichever is greater) for temperatures > 25°C (77°F), ±5°C for temperatures –10°C to 25°C (14–77°F)
Distance-to-spot (D:S) ratio	30:1
Emissivity adjustment	0.95 maximum, 4 presets plus a custom setting (0.10–0.99)
Targeting	Displayed cross-hairs pinpoint the center of the measurement spot
Hold	Image with measurement

Electrical measurement	
Display count	6000
AC/DC V	1000 V AC RMS or 1000 V DC ± 1%/0.09%
AC/DC mV	600.0 mV ± 1%/0.5%
VFD AC V	1000 V AC RMS, 45–65 Hz, ± 1%
AC/DC LoZ V	1000 V AC RMS or 1000 V DC ± 2.0%
AC/DC A	10.00 A AC RMS or 10.00 A DC ± 1.5%/1.0%
AC/DC mA range	400.0 mA ± 1.5%/1.0%
AC/DC μA range	4000 μA AC RMS or 4000 μA DC ± 1.0%
Frequency counter	100.00 kHz ± 0.1%
Resistance	6.000 MΩ ± 0.9%, 50.00 MΩ ± 3.0%
Continuity check threshold	20–200Ω
Diode test	1.500 V ± 0.9%
Capacitance	10.00 mF ± 1.9%
Temperature, type K thermocouple	–40 to 400°C DMM ± (1.0% + 3°C)/IGM ± (1.0% + 5°C) (–40 to 752°F DMM ± (1.0% + 5.4°F)/IGM ± (1.0% + 9°F))
Measuring rate	3 samples per second
<i>Accuracy is given as ± (% of reading)</i>	



FLIR DM285: Industrial Thermal Imaging Multimeter with Datalogging, Wireless Connectivity, and IGM

P/N: DM285

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Website

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Customer support

<http://support.flir.com>

Meter data	
Category rating	CAT IV—600 V, CAT III—1000 V
IP rating	IP40
Drop test	3 m (9.8 ft.)
Warranty	10-10 limited warranty
Calibration cycle	Once per year, recommended

Certifications	
Certifications	C-UL-US, CE, RCM
Safety standards compliance	IEC 61010-1 CAT IV—600 V, CAT III—1000 V

Power system	
Power requirements	3 × AA Energizer L91 Lithium (Li/FeS ₂) batteries or optional TA04 lithium polymer rechargeable battery system
Battery life, Energizer L91 lithium batteries	Approximately 12 hours constant IGM
Battery life, TA04 lithium polymer batteries	Approximately 12 hours constant IGM
Auto power off	Default: 10 minutes

Environmental data	
Operating ambient temperatures and relative humidity (RH)	-10 to 30°C (14–86°F), <85% RH; 30 to 40°C (86–104°F), <75% RH; 40–50°C (104 to 122°F), <45% RH
Storage temperature and RH	-20 to 60°C (-4 to 140°F), 0–80% RH (without batteries)
Temperature coefficient	0.1 × (specified accuracy)/°C, <18°C (64.4°F) , >28°C (82.4°F)
Operating altitude	2000 m (6560 ft.)
Pollution degree	2
EMC	EN61326-1

Meter physical data	
Weight	537 g (18.9 oz.)
Dimensions (L × W × H)	200 mm × 95 mm × 49 mm (7.9 in. × 3.7 in. × 1.9 in.)
Material	Polycarbonate/ABS
Color	Gray, black, and blue

Shipping information	
Packaging type	Color box with view of product in clamshell
Packaging contents	DM285 FLIR meter, TA82 premium test leads, TA70 alligator clips, TA60 thermocouple probe with adapter, TA84 test lead holder storage/tripod accessory, 3 × AA Energizer batteries, English-only quick start guide
Packaging weight	1.3 kg (2.8 lb.)
Packaging dimensions (H × W × L)	33 cm × 14 cm × 11 cm (13 in. × 5.5 in. × 4.33 in.)
Carton weight	16.5 kg (36.4 lb.)
Carton dimensions (H × W × L)	65 cm × 30 cm × 56 cm (25.6 in. × 11.8 in. × 22.0 in.)



FLIR DM285: Industrial Thermal Imaging Multimeter with Datalogging, Wireless Connectivity, and IGM

P/N: DM285

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Shipping information	
Carton quantity	12
EAN-13	0793950372876
UPC-12	793950372876
Country of origin	Taiwan
Tariff code	9027504020

Technical support	
Website	http://support.flir.com
E-mail	TMSupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Included in the box	
DM285 Industrial Thermal Imaging Multimeter with Datalogging, Wireless Connectivity, and IGM	
TA82 Premium Silicone Test Leads	
TA84 Test Lead Storage/Tripod Accessory	
TA60 Thermocouple Adapter with Type K Probe	
TA70 CAT IV Insulated Alligator Probes (Slip On)	
Soft-sided carrying case	

Optional accessories	
TA72 Universal Flex Current Probe Accessory 10 in. (25 cm)	
TA74 Universal Flex Current Probe Accessory 18 in. (45 cm)	
TA04-KIT Lithium Polymer Rechargeable Battery Kit	
TA52 Magnet Mount	
TA50 Magnetic Hanging Strap	
TA42 Belt Clip	
TA10 Protective case for FLIR DMMs	
TA10-F Protective case for FLIR DMMs and TA7X	

P/N: IM75

Revision

29700

Last modified

2015-10-16 07:11 UTC+1

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Website

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Customer support

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Part number	IM75
Part name	Insulation Tester and Digital Multimeter with VFD Mode and METERLiNK
Part description	The FLIR IM75 is both an advanced multifunction digital multimeter and a premier handheld insulation tester with functions for installation, troubleshooting and maintenance for professionals. The FLIR IM75 includes several specialty insulation modes such as polarization index, dielectric absorption, and earth bond resistance. Insulation tests can be performed instantly, continuously, and over a timed duration to allow for in-depth assessment. The multi-color LED indicator in compare mode makes pass/fail determinations easy and visible. METERLiNK connectivity to the FLIR Tools Mobile app allows the remote display of readings on smart phones and tablets. Additionally, METERLiNK connectivity technology allows the user to view readings on a FLIR thermal camera that supports METERLiNK.
Part features	<ul style="list-style-type: none"> Advanced insulation modes: insulation resistance, polarization index, dielectric absorption, and earth bond resistance. VFD mode for superior voltage and frequency accuracy, viewable on the dual LCD. Remote viewing of real-time readings on Android and iOS mobile devices with the free app (FLIR Tools Mobile). Document and analyze thermal changes during insulation measurements with METERLiNK FLIR thermal cameras. Extremely bright work lights (dual LEDs). Durable, rugged, double-molded construction. Ready for work with accessories silicone CAT IV test leads with screw-on alligator clips, magnetic hanging strap, thermocouple adapter, and general-purpose bead probe.

Measurement	
Measurement rate	2 samples per second, nominal
Display rate	2 times per second
Input impedance	3 M Ω V DC/V AC <100 pF
AC voltage bandwidth	50–500 Hz
DC voltage	1000.0 V \pm (0.1% + 5 digits)
AC voltage	1000.0 V: 50–60 Hz \pm (1.5% + 5 digits), 61–500 Hz \pm (2.0% + 5 digits)
VFD AC voltage	1000.0 V: 50–60 Hz \pm (1.5% + 5 digits), 61–500 Hz, \pm (5.0% + 5 digits)



FLIR IM75: Insulation Tester and Digital Multimeter with VFD Mode and METERLiNK

P/N: IM75

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Website

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Customer support

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Measurement	
Earth bond resistance	40.00 Ω \pm (1.5% + 5 digits)* 400.0 Ω \pm (1.5% + 3 digits) 4000 Ω \pm (1.5% + 3 digits) 40.00 k Ω \pm (1.5% + 3 digits)
Continuity	400.0 Ω \pm (0.5% + 2 digits)
Diode	2.000 V \pm (1.5% + 2 digits)
Capacitance	1000 μ F \pm (1.2% + 2 digits) 10.00 mF \pm (1.2% + 20 digits)
Frequency (AC V)	400.0 Hz \pm 5 digits 4.000 kHz \pm 5 digits 40.00 kHz \pm 5 digits
Insulation resistance	4.000 M Ω \pm (1.5% + 5 digits) 40.00 M Ω \pm (1.5% + 5 digits) 400.0 M Ω \pm (3.0% + 5 digits) 4000 M Ω \pm (3.0% + 5 digits) 4.1–20.0 G Ω \pm (10.0% + 3 digits)
Insulation resistance test voltages	50 V, 50.0 M Ω 100 V, 100.0 M Ω 250 V, 250.0 M Ω 500 V, 500.0 M Ω 1000 V, 20 G Ω
Polarization index (PI)	10 min in test/1 min in test
Dielectric absorption ratio (DAR)	1 min in test/30 s in test

Meter data	
Category rating	CAT IV—600 V, CAT III—1000 V
Internal memory	99 storage locations
Warranty	Limited lifetime
Over-current protection (fuse)	440 mA/1000 V, ceramic fast-blow fuse with a minimum interrupt rating of 10 kA

Certifications	
Agency approvals	FCC Class B, CE, UL

Power system	
Power requirements	6 \times 1.5 V AAA alkaline batteries
Battery life	Earth bond resistance measurements: 2600 with new alkaline batteries (standard tests of 1 Ω with a duty cycle of 5 seconds on and 25 seconds off). Insulation resistance: 1100 insulation resistance tests with new alkaline batteries (standard tests of 1 Ω with a duty cycle of 5 seconds on and 25 seconds off). This does not include Bluetooth or backlight use.
Auto power off	User programmable: up to 30 minutes in 1 minute increments, with audible pre-alert (20 seconds)

Environmental data	
Operating temperature	32–122°F (0–50°C)
Operating humidity	Maximum 80% up to 95°F (35°C) decreasing linearly to 60% at 113°F (45°C)



FLIR IM75: Insulation Tester and Digital Multimeter with VFD Mode and METERLiNK

P/N: IM75

Revision

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Website

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<http://support.flir.com>

Environmental data	
Storage temperature	-4 to 140°F (-20 to 60°C)
Storage temperature and relative humidity	-20 to 60°C (-4 to 140°F), 80% maximum
Operating altitude	6561' (2000 m)
Pollution degree	2
EMC	EN 61326-1
Shock vibration	Per MIL-PRF-28800 for a Class 2 instrument

Meter physical data	
Display	4000 count with bar graph
Controls	9-position rotary switch, 4-way selector pad with center OK/TEST button, LED (pass (green), fail (red)), dedicated function buttons (5: mode, cancel, hold/lock, Bluetooth, backlight)
Backlight	White LEDs
Work lights	Two white LEDs
Weight:	1.4 lb. (630 g), including batteries
Dimensions (H x W x L)	3.7" x 8.1" x 2.0" (95 mm x 207 mm x 52 mm)
Material	PC-ABS, TPE
Color	Black

Shipping information	
Packaging type	Color box with view of product in clamshell
Packaging contents	IM75 FLIR meter, TA81 premium test probes with clips, CD with translated manuals, 6 x AAA Energizer batteries
Packaging dimensions (H x W x L)	11 cm x 14 cm x 32 cm (4.3" x 5.5" x 12.6")
Packaging weight	1.16 kg (2.55 lb.), including batteries
Carton weight	15 kg (33 lb.)
Carton dimensions	13 7/8" x 11 1/2" x 24-1/8"
Carton quantity	12
EAN-13	0793950370957
UPC-12	793950370957
Country of origin	Taiwan
Tariff code	9030330040

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Accessories	
TA10. EVA Protective Case for DM9x and IM7x Series	
TA50. Magnetic Hanging Strap	
TA70. CAT IV Insulated Alligator Probes (Slip On)	



FLIR IM75: Insulation Tester and Digital Multimeter with VFD Mode and METERLiNK

P/N: IM75

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Accessories	
TA80. CAT IV Silicone Test Leads	

P/N: MR40

Revision

41014

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Part number	MR40
Part name	Moisture Pen + Flashlight
Part description	<p>The FLIR MR40 is a rugged 2-pin, single-scale moisture meter with an integrated flashlight for wood and common building materials—ideal for builders, building inspectors, remodelers, moisture remediation technicians, pest control professionals, and residential roofing and flooring contractors. Providing reliable and accurate measurements at a highly affordable price point, the FLIR MR40 is a quick and easy-to-use tool to find and quantify moisture problems. With its pen-like form factor, the FLIR MR40 can be carried in a shirt pocket, ready to work.</p> <ul style="list-style-type: none"> • Sleek design for getting into corners. • Replaceable pins—spare set included. • Measurement “hold” function. • Lanyard cap retention.

Measurement	
Measurement range	5–60% MC (moisture content)
Measurement accuracy	<ul style="list-style-type: none"> • 5–30 ± 2% MC • 30–60% MC: reference only <p>NOTE: The displayed reading is for Group 9/Building materials, including plywood, drywall, and oriented-strand board. For other materials, refer to the conversion chart available on the FLIR customer support website: http://tinyurl.com/jteb653</p>
Audible indication	5–12%: low beep rate. 13–60%: higher beep rate. >60%: highest beep rate (display OL)
Calibration/pin check, integrated in cap	16%

Meter data	
Work light	~40 lumens
Display	LCD
Electrode pins	Integrated, replaceable
Measurement principle	Electrical resistance
Warranty	Limited lifetime
Calibration cycle	N/A

Certifications	
Certifications	CE

Power system	
Power requirements	2 × AAA alkaline batteries
Battery life	70 hours without flashlight
Battery status indicator	4-bar battery icon
Auto power off (APO)	3 minutes



FLIR MR40

P/N: MR40

Revision

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Environmental data	
Drop test	3 m (9.8 ft.)
Ingress protection rating	IP54 splash proof
Operating temperature	-10 to +60°C (14-140°F)

Physical data	
Weight	80 g (2.8 oz) with battery
Dimensions (H x W x L)	193 mm x 26 mm x 31 mm (7.6 in. x 1.0 in. x 1.2 in.)
Material	PC-ABS with TPE overmold
Color	Gray and black

Shipping information	
Packaging type	Color box with view of product in clamshell
Packaging contents	<ul style="list-style-type: none">• MR40 Moisture Pen + Flashlight• 2 x AAA Energizer batteries• Spare pin set• User manual
Packaging weight	0.17 kg (0.38 lb.)
Packaging dimensions (H x W x L)	24.5 cm x 8.5 cm x 6.5 cm (9.7 in. x 3.4 in. x 2.5 in.)
Carton weight	4.7 kg (10.3 lb.)
Carton dimensions (H x W x L)	47.7 cm x 37 cm x 20 cm (18.8 in. x 14.6 in. x 7.9 in.)
Carton quantity	20
EAN-13	0793950370414
UPC-12	793950370414
Country of origin	China
Tariff code	9025803500

Accessories	
MO25-PINS	Spare Electrode Pins (10 pins per pack)

Technical support	
Website	http://support.flir.com
E-mail	TMSupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

P/N: MR60

Revision

42568

Last modified

2017-05-09 13:55 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
Part number	MR60
Part name	Moisture Meter Pro
<p>The FLIR MR60 Moisture Meter Pro is a full-featured construction troubleshooting tool, allowing the collection and storage of moisture data over time from multiple sites.</p> <p>An integrated pinless sensor and an external pin probe provide the flexibility to take either intrusive or non-intrusive measurements. Built tough with an industry-leading warranty, the MR60 can serve as your go-to troubleshooting tool right out of the box, helping you find hidden moisture issues and capture reliable data more efficiently.</p>	
<p>Troubleshoot quickly:</p> <ul style="list-style-type: none"> • Easily investigate insulation and moisture issues • Pinless technology for fast non-intrusive measurements • External pin probe included for invasive moisture measurements • Includes construction material ranges • Stores multiple readings with date/time stamp • Data can be exported as CSV files to use with PC-based tools 	
<p>Portable, tough and durable:</p> <ul style="list-style-type: none"> • Drop tested rugged design • Industry-leading warranty • Small form factor to conveniently carry with you • Internal rechargeable battery with USB 	

Moisture measurement	
Pin moisture via external probe range: accuracy	Wood groups (1-9): 7% - 30% MC \pm 1.5% MC 30 % - 100% (reference only) Construction material groups (10-11): 0- 20% (reference only)
Pin moisture groups	Nine (9) wood groups, two (2) construction material groups
Pinless moisture range	0–100 relative measurement
Pinless moisture depth	1.9 cm (0.75") maximum
Sample rate	10 Hz (approx., both modes)
Measurement resolution	0,1
Response time Pinless	100 ms
Response time Pin Mode	750 ms

General information	
Display type (W x H)	QVGA (320 x 240) pixel 2.3" 64K color TFT graphic display
Warranty	2 years
Stored data file format	Comma Separated Values (.csv) format with date/time stamp. Reading value, reading type included.
Saved screenshot file format	Bitmap (.bmp) with measurement values overlaid
Stored screenshot capacity	9999 screenshots
Internal memory	4GB



MR60 Moisture Meter Pro

P/N: MR60

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Certifications	
Certification standards	EN61326 (EMC), EN61010 (Battery + Charger)
Agency approvals	FCC Class B, CE, UL, RCM

Power system	
Power requirements:	Integrated rechargeable battery
Continuous Run Time:	18 hours max
Typical Usage:	4 work weeks
Auto power off:	Programmable: OFF, 1, 5, or 20 minutes
Power adapter	100–240 V input/ 5 V 1A output
Battery	3.7 V, 2000 mAh Li-ion rechargeable via micro USB

Environmental	
Drop Test	3 m (9.8 ft)
Operating temperature	0~50 °C (32~122 °F)
Storage temperature	-10~60°C (14~140°F)
Operating humidity	≤ 90%, 0~30°C (32~86°F) ≤ 75%, 30~40°C (86~104°F) ≤ 45%, 40~50°C (104~122°F)
Storage humidity	90% RH

Meter physical data	
Weight	300 g (10.6 oz.)
Dimensions (H × W × L)	14 × 7.2 × 4.2 cm (5.5 × 2.8 × 1.7 in)
Material	PC-ABS
Color	Black

Shipping information	
Packaging, type	Retail color box
Packaging, Contents	MR60, MR02 Pin Probe, Lanyard, Quick Start Guide, FLIR Tools card, T&M line card, Moisture and Accessories line card, International Charger with USB cable, Warranty card
Each Weight	0.91 kg (2.0 lb.)
Each Dimensions (H × W × L)	33.1 × 14 × 12.1 cm (13.0 × 5.5 × 4.8 in.)
Master Carton Weight	13.3 kg (29.3 lb.)
Master Carton Dimensions (H × W × L)	51.2 × 25.8 × 64 cm (20.2 × 10.2 × 25.2 in.)
Master Carton Quantity	12
EAN-13	0793950370605
UPC-12	793950370605
Country of Origin	China
Tariff Code	9025.8050.00

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662



MR60 Moisture Meter Pro

P/N: MR60

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Technical support

Repairs

repair@flir.com

Accessories

MR09

Baseboard Probe

MR08

Hammer / Wall Probe Combo

MR07

Hammer Probe

MR06

Wall Cavity Probe

MR05

Impact Pin Probe

MR10

EVA Protective Case

P/N: MR77

Revision

42569

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



The FLIR MR77 moisture meter performs all the critical and advanced measurements professionals demand. Its rugged design with field-replaceable sensors is engineered to reduce downtime.

- Field-replaceable temperature and relative humidity (RH) sensor.
- The integrated infrared (IR) thermometer provides fast non-contact surface temperature measurements.
- The remote pin-type probe (included) allows for contact moisture readings.
- The large LCD screen clearly displays moisture, humidity, and air temperature levels.
- FLIR Tools Mobile connects the FLIR MR77 to your compatible smartphone and tablet via Bluetooth.
- METERLINK technology wirelessly integrates moisture readings on your image with FLIR thermal cameras.
- All the sensors you need: integrated pinless moisture sensor, temperature and RH, IR thermometer, and external moisture pin probe.

Features:

Grains per pound or grains per kilogram, dew point, condensation point, differential temperature (IR and dew point), material/wood groups, high/low humidity and moisture alarms, store, recall, minimum, maximum, data hold, auto power off, bright white LED backlight, low battery indication.

Measurement	
Ambient temperature	0 to 50°C (32 to 122°F) ± 0.6°C (1.1°F)
RH at 20–30°C (68–86°F)	10–90% ± 2.5%
Pin moisture	<ul style="list-style-type: none"> • 7–30% (± 1.5% MC) • 30–100% (reference only)
Pin-less moisture range (accuracy)	0–99.9 relative measurement
IR temperature (8:1 distance to spot ratio)	20–0°C (–4 to 32°F) ± 5°C (± 9°F), 1– 200°C (33–392°F), greater of ± 3.5% or ± 5°C (±9°F)
IR emissivity	0.95 fixed
Sample rate	2 per second
Vapor pressure range (accuracy)	0.0–20.0 kPa, greater of ± 2.0% or 0.2 kPa
Dew point temperature range	–30 to 50°C (–22 to 122°F)
Mixing ratio range	0–999 GPP (0–160 g/kg)

Meter data	
Bluetooth range (maximum)	10 m (32')
Bluetooth compatibility	FLIR Tools Mobile Android
Category rating	N/A
Data recording	20 points internal
Warranty	Limited lifetime
Calibration cycle	Annual (recommended)



FLIR MR77

P/N: MR77

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Certifications	
Certifications	FCC
Complies with standards	FCC Class B

Power system	
Power requirements	9 V alkaline
Battery life	~100 hours with alkaline batteries (backlight and work light off)
Low battery voltage	N/A
Auto power off	~30 minutes with disable

Environmental data	
Operating ambient temperatures and RH	<ul style="list-style-type: none">0–50°C (32–122°F), 90% RH0–30°C (32–86°F), 75% RH30–40°C (86–104°F), 45% RH40–50°C (104–122°F)
Storage temperature and RH	–10 to 60°C (14–140°F), 90% RH maximum

Physical data	
Weight	0.29 kg (0.65 lb.), including batteries
Dimensions (H x W x L)	139 mm x 72 mm x 42 mm (5.4" x 2.8" x 1.7")
Material	<ul style="list-style-type: none">Polycarbonate and acrylonitrile butadiene styrene (PC-ABS)Thermoplastic elastomer (TPE)
Color	Gray, black

Shipping information	
Packaging type	Color box with view of product in clamshell
Packaging contents	<ul style="list-style-type: none">MR77 FLIR meterMR01 temperature and RH sensorMR02 wired pin probe9 V Energizer batteryUser manual (English), CD (translations)
Packaging weight	0.70 kg (1.54 lb.)
Packaging dimensions (H x W x L)	13.5 cm x 11 cm x 30 cm (5.3" x 4.8" x 11.8")
Carton weight	15.00 kg (33.07 lb.)
Carton dimensions (H x W x L)	57 cm x 30 cm x 65 cm (22.4" x 11.8" x 52.6")
Carton quantity	20
EAN-13	0793950370773
UPC-12	793950370773
Country of origin	China
Tariff code	9025803500

Accessories	
MR01	Temperature/RH sensor
MR02	External pin moisture probe

Technical support	
Website	http://support.flir.com
E-mail	TMSupport@flir.com



FLIR MR77

P/N: MR77

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Website

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Customer support

<http://support.flir.com>

Technical support	
Phone	855-499-3662
Repairs	repair@flir.com

P/N: TA72

Revision

42570

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Website

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Customer support

<http://support.flir.com>



Part number	TA72
Name	Large Universal Flex Current Probe Accessory
Description	10" (25 cm) 3000 A AC flexible current probe with universal mV output and worklights
<p>The FLIR Universal Flex Current Probe accessories are designed to add capabilities, simplify challenges, and get the best readings with your existing meter. Made with a narrow flexible coil clamp and locking mechanism, the FLIR TA72 and TA74 let you easily take measurements in tight or awkward spots—a difficult task with a traditional hard jaw clamp meter. The connection is a standard banana plug and the output is a voltage signal, so it's compatible with most DMMs and clamp meters, regardless of brand.</p>	
<p>Take accurate measurements in tight or awkward spots—tricky conductors conquered:</p> <ul style="list-style-type: none"> • Snake the coil around obstacles with ease, even in deep, crowded cabinets. • Measure multiple conductors and targets with limited clearance. • Switchable AC current range: 30 A, 300 A, and 3000 A. 	
<p>Empower your meter—compatible with most DMMs and clamp meters, regardless of brand:</p> <ul style="list-style-type: none"> • Adds 3000 A AC measurements to existing meters. • Standard banana plug connectors fit most meters. • AC voltage output for wide compatibility. 	
<p>Easy inspection and navigation—designed with your convenience in mind:</p> <ul style="list-style-type: none"> • Bright, dual-LED worklights provide built-in illumination for dark cabinets. • Rugged design drop-tested to 3 m, portable, and lightweight. • Limited lifetime warranty with registration. 	
Minimum requirements for meter compatibility with TA7x	AC voltage function, 4000-count display, 1 mV resolution
Suitable main units	DM93, DM92

Measurement	
Maximum AC	3000 A AC
AC ranges and resolution	30.00 A, 300.0 A, 3000 A
Basic AC accuracy (full scale)	±3.0% + 5 digits
Measurement rate	1.5 samples per second, nominal
AC bandwidth	45–500 Hz (sine wave)
Detailed accuracy	30.00 A ± (3.0% + 5 digits), 300.0 A ± (3.0% + 5 digits), 3000 A ± (3.0% + 5 digits)
Positional error (distance from optimum)	15 mm (0.6") ± 2.0%, 25 mm (1.0") ± 2.5%, 35 mm (1.4") ± 3.0%

Meter data	
Maximum conductor diameter	6 cm (2.4")



FLIR TA72

P/N: TA72

Revision

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2017-05-09 14:00 UTC+1

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Meter data	
Flex cable length	25 cm (10")
Coil bend radius	38 mm (1.5")
Coil diameter	7.5 mm (0.3")
Coil tip diameter	13 mm (0.5")
Probe length	1.9 m (73")
Worklight	Two white LEDs

Power system	
Power supply	2 × 1.5 V AAA
Battery life	160 hours with alkaline batteries (calculated)
Auto power off	Approximately 10 minutes after power on or disable

Environmental	
Drop test	3 m (9.8')
IP rating	IP54 dust-protected and splash-resistant
Maximum operating altitude	2000 m (6562')
Operating temperature	0–50°C (32–122°F)
Operating humidity	Maximum 80% up to 35°C (95°F) decreasing linearly to 60% at 45°C (113°F)
Temperature coefficient	0.2 × specified accuracy/°C, <64.5°F (18°C), >82.4°F (28°C)
Storage temperature	–20 to +60°C (–4 to +140°F) without batteries
Storage humidity	80% relative humidity (maximum)

Certifications	
Agency approvals	RCM, CSA, KC
Safety compliance	CAT IV—600 V, CAT III—1000 V
Standards	EN61010-1, EN61010-2-032, EN61326-1

Physical data	
Dimensions (W × H × D)	120 mm × 280 mm × 25 mm (4.7" × 11.0" × 1.0")
Weight	170 g (6.0 oz.) with batteries

Shipping	
Packaging type	Color box
Packaging contents	TA72, 2 × AAA 1.5 V Energizer batteries, quick start guide, user manual on CD
Packaging weight	0.61 kg
Packaging dimensions (L × W × H)	32 cm × 18.5 cm × 6.8 cm
Inner carton quantity	3
Inner carton weight	1.94 kg
Inner carton dimensions (L × W × H)	59.5 cm × 6.3 cm × 20.3 cm
Master carton quantity	12
Master carton weight	9.5 kg



FLIR TA72

P/N: TA72

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Shipping	
Master carton dimensions (L x W x H)	61 cm x 50 cm x 22 cm
EAN-13	0793950377727
UPC-12	793950377727
Country of origin	Taiwan
Tariff code	9030908821

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

P/N: TA74

Revision

42571

Last modified

2017-05-09 14:02 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Part number	TA74
Name	Large Universal Flex Current Probe Accessory
Description	18" (45 cm) 3000 A AC flexible current probe with universal mV output and worklights
<p>The FLIR Universal Flex Current Probe accessories are designed to add capabilities, simplify challenges, and get the best readings with your existing meter. Made with a narrow flexible coil clamp and locking mechanism, the FLIR TA72 and TA74 let you easily take measurements in tight or awkward spots—a difficult task with a traditional hard jaw clamp meter. The connection is a standard banana plug and the output is a voltage signal, so it's compatible with most DMMs and clamp meters, regardless of brand.</p>	
<p>Take accurate measurements in tight or awkward spots—tricky conductors conquered:</p> <ul style="list-style-type: none"> • Snake the coil around obstacles with ease, even in deep, crowded cabinets. • Measure multiple conductors and targets with limited clearance. • Switchable AC current range: 30 A, 300 A, and 3000 A. 	
<p>Empower your meter—compatible with most DMMs and clamp meters, regardless of brand:</p> <ul style="list-style-type: none"> • Adds 3000 A AC measurements to existing meters. • Standard banana plug connectors fit most meters. • AC voltage output for wide compatibility. 	
<p>Easy inspection and navigation—designed with your convenience in mind:</p> <ul style="list-style-type: none"> • Bright, dual-LED worklights provide built-in illumination for dark cabinets. • Rugged design drop-tested to 3 m, portable, and lightweight. • Limited lifetime warranty with registration. 	
Minimum requirements for meter compatibility with TA7x	AC voltage function, 4000-count display, 1 mV resolution
Suitable main units	DM93, DM92

Measurement	
Maximum AC	3000 A AC
AC ranges and resolution	30.00 A, 300.0 A, 3000 A
Basic AC accuracy (full scale)	±3.0% + 5 digits
Measurement rate	1.5 samples per second, nominal
AC bandwidth	45–500 Hz (sine wave)
Detailed accuracy	30.00 A ± (3.0% + 5 digits), 300.0 A ± (3.0% + 5 digits), 3000 A ± (3.0% + 5 digits)
Positional error (distance from optimum)	35 mm (1.4") ± 1.0%, 50 mm (2.0") ± 1.5%, 60 mm (2.4") ± 2.0%

Meter data	
Maximum conductor diameter	12 cm (4.7")



FLIR TA74

P/N: TA74

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Meter data	
Flex cable length	45.7 cm (18")
Coil bend radius	80 mm (3.1")
Coil diameter	7.5 mm (0.3")
Coil tip diameter	13 mm (0.5")
Probe length	1.9 m (73")
Worklight	Two white LEDs

Power system	
Power supply	2 × 1.5 V AAA
Battery life	160 hours with alkaline batteries (calculated)
Auto power off	Approximately 10 minutes after power on or disable

Environmental	
Drop test	3 m (9.8')
IP rating	IP54 dust-protected and splash-resistant
Maximum operating altitude	2000 m (6562')
Operating temperature	0–50°C (32–122°F)
Operating humidity	Maximum 80% up to 35°C (95°F) decreasing linearly to 60% at 45°C (113°F)
Temperature coefficient	0.2 × specified accuracy/°C, <64.5°F (18°C), >82.4°F (28°C)
Storage temperature	–20 to +60°C (–4 to +140°F) without batteries
Storage humidity	80% relative humidity (maximum)

Certifications	
Agency approvals	RCM, CSA, KC
Safety compliance	CAT IV—600 V, CAT III—1000 V
Standards	EN61010-1, EN61010-2-032, EN61326-1

Physical data	
Dimensions (W × H × D)	130 mm × 350 mm × 25 mm (5.1" × 13.8" × 1.0")
Weight	200 g (7.1 oz.) with batteries

Shipping	
Packaging type	Color box
Packaging contents	TA74, 2 × AAA 1.5 V Energizer batteries, quick start guide, user manual on CD
Packaging weight	0.62 kg
Packaging dimensions (L × W × H)	32 cm × 18.5 cm × 6.8 cm
Inner carton quantity	3
Inner carton weight	1.94 kg
Inner carton dimensions (L × W × H)	59.5 cm × 6.3 cm × 20.3 cm
Master carton quantity	12
Master carton weight	9.5 kg



FLIR TA74

P/N: TA74

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Shipping	
Master carton dimensions (L x W x H)	61 cm x 50 cm x 22 cm
EAN-13	0793950377741
UPC-12	793950377741
Country of origin	Taiwan
Tariff code	9030908821

Technical support	
Website	http://support.flir.com
E-mail	TMSupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

P/N: TG54

Revision

42572

Last modified

2017-05-09 14:04 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
Part number	TG54
Part name	Spot IR Thermometer
<p>The FLIR TG54 Spot IR Thermometer provides non-contact surface temperature readings so you can quickly and easily take measurements in places that are out of reach. Providing a distance-to-spot ratio of up to 24:1, the FLIR TG54 can measure small targets from a safe distance. New mode options give you control to view your current reading and the last two temperature readings simultaneously. The FLIR TG54 has a color screen that makes it easy to navigate and select settings, plus adds visibility and efficiency to the advanced feature set. The FLIR TG54 is your go-to, pocket-sized device for efficient temperature measurement.</p>	
<p>Measure high and low:</p> <ul style="list-style-type: none"> • Easily take measurements in hard-to-reach spots at a distance. • Take non-contact surface temperature measurements with an infrared sensor. • 24:1 spot ratio to measure small targets from a safe distance. • Easily identify measurement locations with built-in laser targeting. 	
<p>Simple to use:</p> <ul style="list-style-type: none"> • Color display, easy to navigate. • Graphical menu structure allows easy access to settings. • Easy emissivity selection with predetermined levels and custom adjustment. • Stunning visual high and low alarms. 	
<p>Convenient and rugged design:</p> <ul style="list-style-type: none"> • Portable, compact size. • Rugged, industrial design that can withstand a 3 m drop. • Bright worklight to help you see your target in poor lighting conditions. • Tool-less battery compartment. 	

Spot infrared (IR) thermometer	
IR temperature range	-30°C to +650°C (-22°F to +1202°F)
IR temperature accuracy	-30 to -10°C (-22 to +14°F): ±3.0°C (±5.4°F), -10 to <0°C (14 to <32°F): ±2.0°C (±3.6°F), 0–650°C (32–1202°F): ±1.0°C (±1.8°F) or ±1.0% (whichever is greater)
Emissivity	4 presets plus a custom setting (0.10–0.99)
Distance to spot	24:1
Field of view angle	0.04°
Resolution	0.1°C (0.1°F ≤ 999°F; 1°F ≥ 1000°F)
IR temperature response time	150 ms
Measurement modes	3 readings, minimum/maximum, AVG (6000 pts running average)/differential (maximum–minimum)
Alarms	High/low/both, blue and red color indication



FLIR TG54: Spot IR Thermometer

P/N: TG54

Revision

42572

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2017-05-09 14:04 UTC+1

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Laser	
Laser type	Single class 1 laser (red; visible light)
Laser wavelength	650 ± 20 nm
Laser power	≤0.39 mW
Laser alignment	Parallel to measurement "cone"

Power source	
Batteries	3 × 1.5V AAA
Battery life	>8 hours

General	
Display	1.45 in. color TFT, 128 (W) × 128 (H) pixels
Auto power off	User-adjustable (5, 10, and 20 seconds)
Warranty	5 years with registration
Drop test	3 m
IP rating	54
Worklight	Yes
Certifications	CE/FDA laser
Wrist strap	Included

Physical data	
Weight	312 g (11 oz.)
Dimensions (H × W × D)	158 mm × 44 mm × 73 mm (6.2 in. × 1.7 in. × 2.9 in.)

Shipping information	
Packaging type	Retail color box
Packaging contents	TG54, wrist strap/lanyard, user guide, 3 × AAA batteries, warranty registration card
Packaging weight:	0.5 kg (1.1 lb.)
Packaging dimensions (H × W × L)	27.7 × cm 17.3 × cm 17.2 cm (10.9 in. × 6.9 in. × 6.8 in.)
Master carton weight	7 kg (15.5 lb.)
Master carton dimensions (H × W × L)	27.7 × cm 17.3 × cm 7.2 cm (10.9 in. × 6.9 in. × 2.9 in.)
Master carton quantity	12
UPC	793950400548
EAN	0793950400548
Country of origin	China
Tariff code	9025.19.8080

Technical support	
Website	http://support.flir.com
E-mail	TMSupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

P/N: TG56

Revision

42573

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
Part number	TG56
Part name	Spot IR Thermometer with Thermocouple
<p>The FLIR TG56 Spot IR Thermometer provides non-contact surface temperature readings so you can quickly and easily take measurements in places that are out of reach. Providing a distance-to-spot ratio of up to 30:1, the FLIR TG56 can measure small targets from a safe distance. New mode options give you control to view your current reading and the last two temperature readings simultaneously. A type K thermocouple input with included bead probe enables contact measurements with the ability to see your spot infrared temperature, contact measurements, and the difference in the readings on one screen. The FLIR TG56 has a color screen that makes it easy to navigate and select settings, plus adds visibility and efficiency to the advanced feature set. The FLIR TG56 is your go-to, pocket-sized device for efficient temperature measurement.</p>	
<p>Measure high and low:</p> <ul style="list-style-type: none"> Easily take measurements in hard-to-reach spots from farther away. Take non-contact surface temperature measurements with an infrared sensor. 30:1 spot ratio to measure small targets from a safe distance. Easily identify measurement locations with built-in laser targeting. 	
<p>Simple to use:</p> <ul style="list-style-type: none"> Color display, easy to navigate. Graphical menu structure allows easy access to settings. Easy emissivity selection with predetermined levels and custom adjustment. Stunning visual high and low alarms. 	
<p>Convenient and rugged design:</p> <ul style="list-style-type: none"> Portable, compact size. Rugged, industrial design that can withstand a 3 m drop. Bright worklight to help you see your target in poor lighting conditions. Tool-less battery compartment. 	
Spot infrared (IR) thermometer	
IR temperature range	-30°C to +650°C (-22°F to +1202°F)
IR temperature accuracy	-30 to -10°C (-22 to +14°F): ±3.0°C (±5.4°F), -10 to <0°C (14 to <32°F): ±2.0°C (±3.6°F), 0-650°C (32-1202°F): ±1.0°C (±1.8°F) or ±1.0% (whichever is greater)
Emissivity	4 presets plus a custom setting (0.10-0.99)
Distance to spot	30:1
Field of view angle	0.04°
Resolution	0.1°C (0.1°F ≤ 999°F; 1°F ≥ 1000°F)
IR temperature response time	150 ms
Measurement modes	3 readings, minimum/maximum, AVG (6000 pts running average)/differential (maximum-minimum), IR/thermocouple/IR and thermocouple difference



FLIR TG56: Spot IR Thermometer with Thermocouple

P/N: TG56

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Website

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Customer support

<http://support.flir.com>

Spot infrared (IR) thermometer	
Alarms	High/low/both, blue and red color indication

Thermocouple (TC) temperature	
TC input type	K
TC input temperature range	-30 to +650°C (-22 to +1202°F)
TC input temperature accuracy	±2°C (3.6°F) or ±1% whichever is greater. Not including additional probe error: ±2.5°C (4.5°F)
TC input temperature resolution	0.1°C (0.1°F ≤ 999°F; 1°F ≥ 1000°F)
TC included type K range	-30 to +300°C (-22 to +572°F)

Laser	
Laser type	Single class 1 laser (red; visible light)
Laser wavelength	650 ± 20 nm
Laser power	≤0.39 mW
Laser alignment	Parallel to measurement "cone"

Power source	
Batteries	3 × 1.5V AAA
Battery life	>8 hours

General	
Display	1.45 in. color TFT, 128 (W) × 128 (H) pixels
Auto power off	User-adjustable (5, 10, and 20 seconds)
Warranty	5 years with registration
Drop test	3 m
IP rating	N/A
Worklight	Yes
Certifications	CE/FDA laser
Wrist strap	Included

Physical data	
Weight	312 g (11 oz.)
Dimensions (H × W × D)	158 mm × 44 mm × 73 mm (6.2 in. × 1.7 in. × 2.9 in.)

Shipping information	
Packaging type	Retail color box
Packaging contents	TG56, wrist strap/lanyard, type K thermocouple, user guide, 3 × AAA batteries, warranty registration card
Packaging weight:	0.5 kg (1.1 lb.)
Packaging dimensions (H × W × L)	27.7 × cm 17.3 × cm 17.2 cm (10.9 in. × 6.9 in. × 6.8 in.)
Master carton weight	7 kg (15.5 lb.)
Master carton dimensions (H × W × L)	27.7 × cm 17.3 × cm 7.2 cm (10.9 in. × 6.9 in. × 2.9 in.)
Master carton quantity	12



FLIR TG56: Spot IR Thermometer with Thermocouple

P/N: TG56

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>**Shipping information**

UPC	793950400562
EAN	0793950400562
Country of origin	China
Tariff code	9025.19.8080

Accessories

TA60 Thermocouple Probe with Adapter

Technical support

Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

P/N: VP50

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



The FLIR VP50 CAT IV-rated non-contact voltage detector is designed to reliably detect voltages on the latest tamperproof outlets and electrical systems installed.

- Safe CAT IV-1000 V rating and toolbox-tough with a rubber-reinforced case and buttons, and a low-profile detection tip.
- Vibration and red LED alarms alert users to the presence of voltage in noisy areas.
- Versatile high/low-sensitivity modes detect voltage in industrial equipment and low-voltage installations.
- The powerful LED work light is always at the ready to illuminate poorly lit locations.
- The inspection light at the probe tip facilitates testing in dark areas.

Measurement	
AC voltage range (default, green light)	90–1000 V AC
AC excitation voltage/distance	90 V AC/0–5 cm
Frequency range	45–65 Hz
High-sensitivity mode (amber light)	24 V AC

Meter data	
Work light	~50–52 lumens
Tip light	Yes
Category rating	CAT IV-1000 V
Warranty	Limited lifetime
Calibration cycle	N/A

Certifications	
Certifications	UL, cUL, CE, CB

Power system	
Power requirements	2 × AAA alkaline batteries
Battery life	~7 hours continuous (work light off)
Low battery voltage	N/A
Auto power off	Yes

Environmental data	
Drop test	3 m (9.8 ft.)
Operating ambient temperatures	0–60°C (–32 to 140°F)
Storage temperature	–40 to 90°C (–40 to 194°F)
Temperature coefficient	N/A

Physical data	
Weight	0.20 kg (0.44 lb.), including batteries
Dimensions (H × W × L)	29 mm × 26 mm × 156 mm (1.1" × 1.0" × 6.1")
Material	<ul style="list-style-type: none"> • Polycarbonate and acrylonitrile butadiene styrene (PC-ABS) • Thermoplastic elastomer (TPE)



FLIR VP50

P/N: VP50

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Physical data	
Color	Gray, black

Shipping information	
Packaging type	Color box with view of product in clamshell
Packaging contents	<ul style="list-style-type: none">VP50 FLIR detector2 × AAA Energizer batteriesUser manual
Packaging weight	0.17 kg (0.38 lb.)
Packaging dimensions (H × W × L)	9 cm × 7 cm × 25 cm (3.5" × 2.8" × 9.8")
Carton weight	4.7 kg (10.3 lb.)
Carton dimensions (H × W × L)	36 cm × 38 cm × 28 cm (14.1" × 14.9" × 11.0")
Carton quantity	20
EAN-13	0793950400517
UPC-12	793950400517
Country of origin	China
Tariff code	9030330040

Accessories	
CS-VP50	Counter display with 10 VP50 units
VS-VP50-STANDONLY	Counter display

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

P/N: VP52

Revision

42575

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



The FLIR VP52 CAT IV-rated non-contact voltage detector is designed to reliably detect voltages on the latest tamperproof outlets and electrical systems installed.

- Safe CAT IV-1000 V rating and toolbox-tough with a rubber-reinforced case and buttons, and a low-profile detection tip.
- Vibration and red LED alarms alert users to the presence of voltage in noisy areas.
- Versatile high/low-sensitivity modes detect voltage in industrial equipment and low-voltage installations.
- The powerful LED work light is always at the ready to illuminate poorly lit locations.
- The inspection light at the probe tip facilitates testing in dark areas.

Measurement	
AC voltage range (default, green light)	190–1000 V AC
AC excitation voltage/distance	190 V AC/0–5 cm
Frequency range	45–65 Hz
High-sensitivity mode (amber light)	24 V AC

Meter data	
Work light	~50–52 lumens
Tip light	Yes
Category rating	CAT IV-1000 V
Warranty	Limited lifetime
Calibration cycle	N/A

Certifications	
Certifications	UL, cUL, CE, CB

Power system	
Power requirements	2 × AAA alkaline batteries
Battery life	~7 hours continuous (work light off)
Low battery voltage	N/A
Auto power off	Yes

Environmental data	
Drop test	3 m (9.8 ft.)
Operating ambient temperatures	0–60°C (–32 to 140°F)
Storage temperature	–40 to 90°C (–40 to 194°F)
Temperature coefficient	N/A

Physical data	
Weight	0.20 kg (0.44 lb.), including batteries
Dimensions (H × W × L)	29 mm × 26 mm × 156 mm (1.1" × 1.0" × 6.1")
Material	<ul style="list-style-type: none"> • Polycarbonate and acrylonitrile butadiene styrene (PC-ABS) • Thermoplastic elastomer (TPE)



FLIR VP52

P/N: VP52

Revision

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Physical data	
Color	Gray, black

Shipping information	
Packaging type	Color box with view of product in clamshell
Packaging contents	<ul style="list-style-type: none">VP52 FLIR detector2 × AAA Energizer batteriesUser manual
Packaging weight	0.17 kg (0.38 lb.)
Packaging dimensions (H × W × L)	9 cm × 7 cm × 25 cm (3.5" × 2.8" × 9.8")
Carton weight	4.7 kg (10.3 lb.)
Carton dimensions (H × W × L)	36 cm × 38 cm × 28 cm (14.1" × 14.9" × 11.0")
Carton quantity	20
EAN-13	0793950400524
UPC-12	793950400524
Country of origin	China
Tariff code	9030330040

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

P/N: VS70-1

Revision

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The General Purpose Long Focus Combo kit includes the VS70 base kit and a 8 mm long focus camera on a 1 m semi-rigid cable. This kit enables users to perform basic inspections and add options as needs grow.

ERP description	General Purpose Long Focus Combo
Kit contents	VS70 + VSC8.01R

VS70 main unit general data	
LCD screen	145 mm (5.7"), 135 mm (5.3") viewable
Active matrix	Active matrix, 640 × 480 pixels
Memory type	SD card 4 GB included (32 GB maximum)
Compression format	MPEG4
Still-image format	JPEG (640 × 480 pixels)
Video recording format	AVI (640 × 480 pixels)
Video output format	NTSC and PAL, frame rate 30 fps
Multi-language menu	Yes
Receiver frequency	2.4 GHz
Receiver sensitivity	-87 dBm (SNR = 42 dB, $F_{mod} = 15$)
Data/video	Mini USB 1.1 and AV out
Audio	Earphone plug, 3.5 mm, 4 rings
Speaker	15 mm, 32 Ω, 20 Hz to 20 kHz
Microphone	Boom microphone 6 mm × 5 mm (0.24" × 0.2"), total length 10 cm (3.9"), wire length 1.2 m (3.9')
Tripod mount	On rear, accepts standard tripod screw
Certifications	FCC, CE
Warranty	2 years, see website for details

VS70 main unit power system	
Battery	3.7 V rechargeable lithium polymer
Battery life	6–8 hours
Power adapter	100–240 V input/5 V DC output
Battery status indication	Progressive with auto power off (APO)

VS70 main unit environmental data	
IP rating	67



FLIR VS70: General Purpose (Wired) Long Focus Videoscope Combo

P/N: VS70-1

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VS70 main unit environmental data	
Drop test	2 m
Operating temperature	-10 to 60°C (14 to 140°F)
Operating humidity	80% maximum
Storage temperature	-40 to 80°C (-40 to 176°F)

VS70 main unit physical data	
Product weight	1.57 kg (3.46 lb.), including batteries
Product dimensions	241 mm × 178 mm × 70 mm (9.5" × 7" × 2.75")
Material	PC-ABS, rubber hand grip, nylon strap
Colour	Gray, black

Camera VSC80-1R (8 mm camera with 1 m SR probe—VGA via LF)	
Diameter	8 mm
Resolution	VGA (640 × 480 pixels)
Probe length	1 m
Focal length	65 mm to infinity
Field of view	56°
Integrated handset	N/A
Wireless capabilities	N/A
Compatible main unit	VS70
Compatible wireless handset	VST
Compatible detachable cameras	N/A
Warranty	2 years
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED
Operating temperature	-10 to 50°C (14 to 122°F)

Shipping information	
Packaging type	Brown shipping box over hard case
Packaging contents	VS70 main unit, VSC80-1R (8 mm camera with 1 m SR probe—VGA via LF), VSA-80 (8 mm camera accessories: mirror, anti-snag tip, magnet), patch cable, 4 GB SD card, USB/video out cables, power adapters, vehicle charger, headset, neck strap, cleaning kit, VS-HC (VS70 hard case with camera storage), and user manual (printed English and translated on CD)
Packaging weight	7.5 kg
Packaging dimensions (H × W × L)	53 cm × 43.5 cm × 22 cm
Carton weight	16 kg
Carton dimensions (H × W × L)	55 cm × 46.5 cm × 46 cm
Carton quantity	2
EAN-13	0793950400715



FLIR VS70: General Purpose (Wired) Long Focus Videoscope Combo

P/N: VS70-1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Shipping information	
UPC-12	793950400715
Country of origin	TW
Tariff code	9013809000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Documentation	
Manual languages (on CD and web)	Czech, Danish, German, Greece, English (US), Spanish (Spain), Finnish, French (France), Hungarian, Italian, Japanese, Korean, Bokmal Norwegian (Norway), Dutch Flemish (Netherlands), Polish, Portuguese (Portugal), Russian, Swedish, Chinese, Chinese (Taiwan)

Suggested cameras and accessories	
VST	Wireless handset
VS-2PC	2 m patch cable
VSA2-1-W	Wireless two-way 6 mm articulated camera with 1 m probe
VSC65-17S	17" stainless steel rigid probe

Compatible cameras full list	
VSA2-2M-W	Wireless two-way 6 mm articulated camera with 2 m probe via SF
VSA2-2-W	Wireless two-way 6 mm articulated camera with 2 m probe
VSA2-1M-W	Wireless two-way 6 mm articulated camera with 1 m probe via SF
VSA2-2	Two-way 6 mm articulated camera with 2 m probe
VSA2-2M	Two-way 6 mm articulated camera with 2 m probe via SF
VSA2-1	Two-way 6 mm articulated camera with 1 m probe
VSA2-1M	Two-way 6 mm articulated camera with 1 m probe via SF
VSC2-58-1FM	Two-channel camera with 5.8 mm diameter 1 m probe
VSC58-30M	5.8 mm camera with 30 m FG probe—QVGA via SF
VSC58-20M	5.8 mm camera with 20 m FG probe—QVGA via SF
VSS-30	30 m plumbing spool
VSS-20	20 m plumbing spool
VSC28	28 mm camera head for spool
VSC25	25 mm camera head for spool
VS-BR25	Centering brush for VS70 camera probes
VS-BR28	Centering brush for VS70 camera probes



FLIR VS70: General Purpose (Wired) Long Focus Videoscope Combo

P/N: VS70-1

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Compatible cameras full list	
VS-RB	Replacement centering brush
VSC65-12S	12" stainless steel rigid probe
VSC41-2RM	4.1 mm camera with 2 m SR probe—QVGA via SF
VSC39-1FM	3.9 mm camera with 1 m flex probe—QVGA via SF
VSC58-2R	5.8 mm camera with 2 m SR probe—VGA via LF
VSC58-2RM	5.8 mm camera with 2 m SR probe—VGA via SF
VSC58-1R	5.8 mm camera with 1 m SR probe—VGA via LF
VSC58-1RM	5.8 mm camera with 1 m SR probe—VGA via SF
VSC80-2R	8 mm camera with 2 m SR probe—VGA via LF
VSC80-1R	8 mm camera with 1 m SR probe—VGA via LF

P/N: VS70-2

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Website

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The Small Opening Short Focus Combo (Wired) kit includes the VS70, a base kit, and a 5.8 mm short-focus camera on a 1 m semi-rigid cable. Built for close-up inspections.

ERP description	Small Opening Short Focus Combo (Wired)
Kit contents	VS70 + VSC5.8-1RM

VS70 main unit general data	
LCD screen	145 mm (5.7"), 135 mm (5.3") viewable
Active matrix	Active matrix, 640 × 480 pixels
Memory type	SD card 4 GB included (32 GB maximum)
Compression format	MPEG4
Still image format	JPEG (640 × 480 pixels)
Video recording format	AVI (640 × 480 pixels)
Video output format	NTSC and PAL, frame rate 30 fps
Multi-language menu	Yes
Receiver frequency	2.4 GHz
Receiver sensitivity	-87 dBm (SNR = 42 dB, $F_{mod} = 15$)
Data/video	Mini USB 1.1 and AV out
Audio	Earphone plug, 3.5 mm, 4 rings
Speaker	15 mm, 32 Ω, 20 Hz to 20 kHz
Microphone	Boom microphone 6 mm × 5 mm (0.24" × 0.2"), total length 10 cm (3.9"), wire length 1.2 m (3.9')
Tripod mount	On rear, accepts standard tripod screw
Certifications	FCC, CE
Warranty	2 years, see website for details

VS70 main unit power system	
Battery	3.7 V rechargeable lithium polymer
Battery life	6-8 hours
Power adapter	100-240 V input/5 V DC output
Battery status indication	Progressive with auto power off (APO)



FLIR VS70: Small Opening Short Focus Videoscope Combo

P/N: VS70-2

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Website

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Customer support

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VS70 main unit environmental data	
IP rating	67
Drop test	2 m
Operating temperature	-10 to 60°C (14 to 140°F)
Operating humidity	80% maximum
Storage temperature	-40 to 80°C (-40 to 176°F)

VS70 main unit physical data	
Product weight	1.57 kg (3.46 lb.), including batteries
Product dimensions	241 mm × 178 mm × 70 mm (9.5" × 7" × 2.75")
Material	PC-ABS, rubber hand grip, nylon strap
Color	Gray and black

Camera VSC58-1RM general data	
ERP description	5.8 mm camera with 1 m SR probe—VGA via SF
Compatible main unit	VS70
Compatible wireless handset	VST
Compatible cameras	N/A
Diameter	5.8 mm
Resolution	VGA (640 × 480 pixels)
Probe length	1 m
Focal length	20–60 mm
Field of view	56°
Warranty	2 years
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED
Operating temperature	-10°C to 50°C (14 to 122°F)

Shipping information	
Packaging type	Brown shipping box over hard case
Packaging contents	VS70 main unit, VSC58-1RM (5.8 mm camera with 1 m SR probe—VGA via SF), VSA-58 (5.8 mm camera accessories: mirror, anti-snap tip, magnet), patch cable, 4 GB SD card, USB/video out cables, power adapters, vehicle charger, headset, neck strap, cleaning kit, VS-HC (VS70 hard case with camera storage), and user manual (printed English and translated on CD)
Packaging weight	7.5 kg
Packaging dimensions (H × W × L)	53 cm × 43.5 cm × 22 cm
Carton weight	16 kg
Carton dimensions (H × W × L)	55 cm × 46.5 cm × 46 cm
Carton quantity	2
EAN-13	0793950400739
UPC-12	793950400739



FLIR VS70: Small Opening Short Focus Videoscope Combo

P/N: VS70-2

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Website

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Customer support

<http://support.flir.com>

Shipping information	
Country of origin	TW
Tariff code	9013809000

Technical support	
Website	http://support.flir.com
E-mail	TMSupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Documentation	
Manual languages (on CD and web)	Czech, Danish, German, Greece, English (US), Spanish (Spain), Finnish, French (France), Hungarian, Italian, Japanese, Korean, Bokmal Norwegian (Norway), Dutch Flemish (Netherlands), Polish, Portuguese (Portugal), Russian, Swedish, Chinese, Chinese (Taiwan)

Suggested cameras and accessories	
VST	Wireless 2.4 Ghz VS70 transmitter
VSA2-1-W	Wireless two-way 6 mm articulated camera with 1 m probe
VSC65-17S	17" stainless steel rigid probe

Compatible cameras full list	
VSA2-2M-W	Wireless two-way 6 mm articulated camera with 2 m probe via SF
VSA2-2-W	Wireless two-way 6 mm articulated camera with 2 m probe
VSA2-1M-W	Wireless two-way 6 mm articulated camera with 1 m probe via SF
VSA2-2	Two-way 6 mm articulated camera with 2 m probe
VSA2-2M	Two-way 6 mm articulated camera with 2 m probe via SF
VSA2-1	Two-way 6 mm articulated camera with 1 m probe
VSA2-1M	Two-way 6 mm articulated camera with 1 m probe via SF
VSC2-58-1FM	Two-channel camera, 5.8 mm diameter 1 m probe
VSC58-30M	5.8 mm camera with 30 m FG probe—QVGA via SF
VSC58-20M	5.8 mm camera with 20 m FG probe—QVGA via SF
VSS-30	30 m plumbing spool
VSS-20	20 m plumbing spool
VSC28	28 mm camera head for spool
VSC25	25 mm camera head for spool
VS-BR25	Centering brush for VS70 camera probes
VS-BR28	Centering brush for VS70 camera probes
VS-RB	Replacement centering brush
VSC65-12S	12" stainless steel rigid probe



FLIR VS70: Small Opening Short Focus Videoscope Combo

P/N: VS70-2

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Compatible cameras full list	
VSC41-2RM	4.1 mm camera with 2 m SR probe—QVGA via SF
VSC39-1FM	3.9 mm camera with 1 m flex probe—QVGA via SF
VSC58-2R	5.8 mm camera with 2 m SR probe—VGA via LF
VSC58-2RM	5.8 mm camera with 2 m SR probe—VGA via SF
VSC58-1R	5.8 mm camera with 1 m SR probe—VGA via LF
VSC58-1RM	5.8 mm camera with 1 m SR probe—VGA via SF
VSC80-2R	8 mm camera with 2 m SR probe—VGA via LF
VSC80-1R	8 mm camera with 1 m SR probe—VGA via LF

P/N: VS70-KIT

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The Starter Bundle includes the VS70, a wired handset, a dedicated 6 mm long-locus camera with two-way articulation on a 1 m semi-rigid cable, and an 8mm long focus camera on a 1 meter semi-rigid cable. The bundle provides long-distance views and close-up inspection.

ERP description	Starter Bundle: Main Unit, Two-way Articulation, General Purpose Camera
Kit contents	VS70 + VSA2-1 + VSC80-1R

VS70 main unit general data	
LCD screen	145 mm (5.7"), 135 mm (5.3") viewable
Active matrix	Active matrix, 640 × 480 pixels
Memory type	SD card 4 GB included (32 GB maximum)
Compression format	MPEG4
Still image format	JPEG (640 × 480 pixels)
Video Recording format	AVI (640 × 480 pixels)
Video output format	NTSC and PAL, frame rate 30 fps
Multi-language menu	Yes
Receiver frequency	2.4 GHz
Receiver sensitivity	-87 dBm (SNR = 42 dB, $F_{mod} = 15$)
Data/video	Mini USB 1.1 and AV out
Audio	Earphone plug, 3.5 mm, 4 rings
Speaker	15 mm, 32 Ω, 20 Hz to 20 kHz
Microphone	Boom microphone 6 mm × 5 mm (0.24" × 0.2"), total length 10 cm (3.9"), wire length 1.2 m (3.9')
Tripod mount	On rear, accepts standard tripod screw
Certifications	FCC, CE
Warranty	2 years, see website for details

VS70 main unit power system	
Battery	3.7 V rechargeable lithium polymer
Battery life	6–8 hours
Power adapter	100–240 V input/5 V DC output
Battery status indication	Progressive with auto power off (APO)



FLIR VS70: Starter Bundle w Articulation and extra camera Videoscope Kit

P/N: VS70-KIT

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Customer support

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VS70 main unit environmental data	
IP rating	67
Drop test	2 m
Operating temperature	-10 to 60°C (14 to 140°F)
Operating humidity	80% maximum
Storage temperature	-40 to 80°C (-40 to 176°F)

VS70 main unit physical data	
Product weight	1.57 kg (3.46 lb.), including batteries
Product dimensions	241 mm × 178 mm × 70 mm (9.5" × 7" × 2.75")
Material	PC-ABS, rubber hand grip, nylon strap
Color	Gray and black

Camera VSA2-1 (two-way 6 mm articulated camera with 1 m probe)	
Diameter	6 mm
Resolution	VGA (640 × 480 pixels)
Probe length	1 m
Focal length	65 mm to infinity
Field of view	56°
Articulation	Two-way 240 ± 20° manual tip articulation
Integrated handset	Yes
Wireless capabilities	No
Compatible main unit	VS70
Compatible wireless handset	N/A
Compatible detachable cameras	N/A
Warranty	2 years
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED
Operating temperature	-10°C to 50°C (14 to 122°F)
Power requirements	N/A

Camera VSC80-1R (8 mm camera with 1 m SR probe—VGA via LF)	
Diameter	8 mm
Resolution	VGA (640 × 480 pixels)
Probe length	1 m
Focal length	65 mm to infinity
Field of view	56°
Integrated handset	N/A
Wireless capabilities	N/A
Compatible main unit	VS70



FLIR VS70: Starter Bundle w Articulation and extra camera Videoscope Kit

P/N: VS70-KIT

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Camera VSC80-1R (8 mm camera with 1 m SR probe—VGA via LF)	
Compatible wireless handset	VST
Compatible detachable cameras	N/A
Warranty	2 years
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED
Operating temperature	-10 to 50°C (14 to 122°F)

Shipping information	
Packaging type	Brown shipping box over hard case
Packaging contents	VS70 main unit, VSA2-1 (two-way 6 mm articulated camera with 1 m probe), VSA-60 (6 mm camera accessories: mirror, anti-snap tip, magnet), patch cable, 4 GB SD card, USB/video out cables, power adapters, vehicle charger, headset, neck strap, cleaning kit, VS-HC (VS70 hard case with camera storage), and user manual (printed English and translated on CD)
Packaging weight	7.5 kg
Packaging dimensions (H x W x L)	53 cm x 43.5 cm x 22 cm
Carton weight	16 kg
Carton dimensions (H x W x L)	55 cm x 46.5 cm x 46 cm
Carton quantity	2
EAN-13	0793950400760
UPC-12	793950400760
Country of origin	TW
Tariff code	9013809000

Technical support	
Website	http://support.flir.com
E-mail	TMSupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Documentation	
Manual languages (on CD and web)	Czech, Danish, German, Greece, English (US), Spanish (Spain), Finnish, French (France), Hungarian, Italian, Japanese, Korean, Bokmal Norwegian (Norway), Dutch Flemish (Netherlands), Polish, Portuguese (Portugal), Russian, Swedish, Chinese, Chinese (Taiwan)

Suggested cameras and accessories	
VST	Wireless handset
VS-2PC	2 m patch cable
VSA2-1-W	Wireless two-way 6 mm articulated camera with 1 m probe
VSC65-17S	17" stainless steel rigid probe



FLIR VS70: Starter Bundle w Articulation and extra camera Videoscope Kit

P/N: VS70-KIT

Revision

42584

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Compatible cameras full list	
VSA2-2M-W	Wireless two-way 6 mm articulated camera with 2 m probe via SF
VSA2-2-W	Wireless two-way 6 mm articulated camera with 2 m probe
VSA2-1M-W	Wireless two-way 6 mm articulated camera with 1 m probe via SF
VSA2-2	Two-way 6 mm articulated camera with 2 m probe
VSA2-2M	Two-way 6 mm articulated camera with 2 m probe via SF
VSA2-1	Two-way 6 mm articulated camera with 1 m probe
VSA2-1M	Two-way 6 mm articulated camera with 1 m probe via SF
VSC2-58-1FM	Two-channel camera, 5.8 mm diameter 1 m probe
VSC58-30M	5.8 mm camera with 30 m FG probe—QVGA via SF
VSC58-20M	5.8 mm camera with 20 m FG probe—QVGA via SF
VSS-30	30 m plumbing spool
VSS-20	20 m plumbing spool
VSC28	28 mm camera head for spool
VSC25	25 mm camera head for spool
VS-BR25	Centering brush for VS70 camera probes
VS-BR28	Centering brush for VS70 camera probes
VS-RB	Replacement centering brush
VSC65-12S	12" stainless steel rigid probe
VSC41-2RM	4.1 mm camera with 2 m SR probe—QVGA via SF
VSC39-1FM	3.9 mm camera with 1 m flex probe—QVGA via SF
VSC58-2R	5.8 mm camera with 2 m SR probe—VGA via LF
VSC58-2RM	5.8 mm camera with 2 m SR probe—VGA via SF
VSC58-1R	5.8 mm camera with 1 m SR probe—VGA via LF
VSC58-1RM	5.8 mm camera with 1 m SR probe—VGA via SF
VSC80-2R	8 mm camera with 2 m SR probe—VGA via LF
VSC80-1R	8 mm camera with 1 m SR probe—VGA via LF

P/N: VS70

Revision

29700

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The FLIR VS70 is a rugged, waterproof, and shock-resistant videoscope that features intuitive handset controls that enable users to maneuver the narrow camera probe into tight spaces to deliver vivid and sharp video and images to a large 5.7" color LCD display. Advanced inspection solutions, expansion cameras, and add-on accessories enable users to expand their FLIR VS70 to address many different inspection needs. A camera (VSCxx or VSAxx) is needed for operation.

VS70 main unit general data	
LCD screen	145 mm (5.7"), 135 mm (5.3") viewable
Active matrix	640 × 480 pixels
Memory type	SD card (4 GB included, 32 GB maximum)
Compression format	MPEG4
Still image format	JPEG (640 × 480 pixels)
Video recording format	AVI (640 × 480 pixels)
Video output format	NTSC and PAL (frame rate 30 fps)
Multi-language menu	Yes, 26 languages
Receiver frequency	2.4 GHz
Receiver sensitivity	-87 dBm (SNR = 42 dB, Fmod = 15)
Data/video	Mini USB 1.1 and AV out
Audio	Earphone plug, 3.5 mm, 4 rings
Speaker	15 mm, 32 Ω, 20–20 kHz
Microphone	Boom microphone 6 mm × 5 mm (0.24" × 0.2"), total length 10 cm (3.9"), wire length 1.2 m (3.9')
Tripod mount	On rear, accepts standard tripod screw
Certifications	FCC, CE
Warranty	2 years, see website for details

VS70 main unit power system data	
Battery	3.7 V rechargeable lithium polymer
Battery life	6–8 hours
Power adapter	100–240 V input/5 V DC output
Battery status indication	Progressive with auto power off (APO)

VS70 main unit environmental data	
IP rating	67



FLIR VS70: Videoscope Main Unit

P/N: VS70

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VS70 main unit environmental data	
Drop test	2 m
Operating temperature	-10 to 60°C (14 to 140°F)
Operating humidity	80% maximum
Storage temperature	-40 to 80°C (-40 to 176°F)

VS70 main unit physical data	
Product weight	1.57 kg (3.46 lb.), including batteries
Product dimensions	241 mm × 178 mm × 70 mm (9.5" × 7" × 2.75")
Material	PC-ABS, rubber hand grip, nylon strap
Color	Gray, black

Shipping information	
Packaging type	White box, FLIR hard case
Packaging contents	VS70 videoscope, hard case, user manual (English), CD (translations), international USB power, 12V auto USB charger, headset with boom microphone, auto adapter for USB power, shoulder strap, camera cleaning kit
Packaging weight	7.5 kg
Packaging dimensions (H × W × L)	53 cm × 43.5 cm × 22 cm
Carton weight	16 kg
Carton size	55 cm × 46.5 cm × 46 cm
Carton quantity	2
EAN-13	0793950400708
UPC-12	793950400708
Tariff code	9013809000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

P/N: VS70-3

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Website

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Customer support

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The Articulation Combo (Wired), Long Focus kit includes the VS70, a wired handset, and a dedicated 6 mm long-focus camera with two-way articulation on a 1 m semi-rigid cable. Long focus provides an increased viewing distance, and articulation provides greater internal camera control.

ERP description	Articulation Combo (Wired), Long Focus
Kit contents	VS70 + VSA2-1

VS70 main unit general data	
LCD screen	145 mm (5.7"), 135 mm (5.3") viewable
Active matrix	Active matrix, 640 × 480 pixels
Memory type	SD card 4 GB included (32 GB maximum)
Compression format	MPEG4
Still image format	JPEG (640 × 480 pixels)
Video recording format	AVI (640 × 480 pixels)
Video output format	NTSC and PAL, frame rate 30 fps
Multi-language menu	Yes
Receiver frequency	2.4 GHz
Receiver sensitivity	-87 dBm (SNR = 42 dB, $F_{mod} = 15$)
Data/video	Mini USB 1.1 and AV out
Audio	Earphone plug, 3.5 mm, 4 rings
Speaker	15 mm, 32 Ω, 20 Hz to 20 kHz
Microphone	Boom microphone 6 mm × 5 mm (0.24" × 0.2"), total length 10 cm (3.9"), Wire length 1.2 m (3.9')
Tripod mount	On rear, accepts standard tripod screw
Certifications	FCC, CE
Warranty	2 years, see website for details

VS70 main unit power system	
Battery	3.7 V rechargeable lithium polymer
Battery life	6–8 hours
Power adapter	100–240 V input/5 V DC output
Battery status indication	Progressive with auto power off (APO)



FLIR VS70: Wired Articulation Camera Videoscope Combo

P/N: VS70-3

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Website

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Customer support

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VS70 main unit environmental data	
IP rating	67
Drop test	2 m
Operating temperature	-10 to 60°C (14 to 140°F)
Operating humidity	80% maximum
Storage temperature	-40 to 80°C (-40 to 176°F)

VS70 main unit physical data	
Product weight	1.57 kg (3.46 lb.), including batteries
Product dimensions	241 mm × 178 mm × 70 mm (9.5" × 7" × 2.75")
Material	PC-ABS, rubber hand grip, nylon strap
Color	Gray and black

Camera VSA2-1 (two-way 6 mm articulated camera with 1 m probe)	
Diameter	6 mm
Resolution	VGA (640 × 480 pixels)
Probe length	1 m
Focal length	65 mm to infinity
Field of view	56°
Articulation	Two-way 240 ± 20° manual tip articulation
Integrated handset	Yes
Wireless capabilities	No
Compatible main unit	VS70
Compatible wireless handset	N/A
Compatible detachable cameras	N/A
Warranty	2 years
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED
Operating temperature	-10 to 50°C (14 to 122°F)
Power requirements	N/A

Shipping information	
Packaging type	Brown shipping box over hard case
Packaging contents	VS70 main unit, VSA2-1 (two-way 6 mm articulated camera with 1 m probe), VSA-60 (6 mm camera accessories: mirror, anti-snag tip, magnet), patch cable, 4 GB SD card, USB/video out cables, power adapters, vehicle charger, headset, neck strap, cleaning kit, VS-HC (VS70 hard case with camera storage), and user manual (printed English and translated on CD)
Packaging weight	7.5 kg
Packaging dimensions (H × W × L)	53 cm × 43.5 cm × 22 cm
Carton weight	16 kg



FLIR VS70: Wired Articulation Camera Videoscope Combo

P/N: VS70-3

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Shipping information	
Carton dimensions (H x W x L)	55 cm x 46.5 cm x 46 cm
Carton quantity	2
EAN-13	0793950400746
UPC-12	793950400746
Country of origin	TW
Tariff code	9013809000

Technical support	
Website	http://support.flir.com
E-mail	TMSupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Documentation	
Manual Languages (on CD and web)	Czech, Danish, German, Greece, English (US), Spanish (Spain), Finnish, French (France), Hungarian, Italian, Japanese, Korean, Bokmal Norwegian (Norway), Dutch Flemish (Netherlands), Polish, Portuguese (Portugal), Russian, Swedish, Chinese, Chinese (Taiwan)

Suggested cameras and accessories	
VST	Wireless handset
VS-2PC	2 m patch cable
VSA2-1-W	Wireless two-way 6 mm articulated camera with 1 m probe
VSC65-17S	17" stainless steel rigid probe

Compatible cameras full list	
VSA2-2M-W	Wireless two-way 6 mm articulated camera with 2 m probe via SF
VSA2-2-W	Wireless two-way 6 mm articulated camera with 2 m probe
VSA2-1M-W	Wireless two-way 6 mm articulated camera with 1 m probe via SF
VSA2-2	Two-way 6 mm articulated camera with 2 m probe
VSA2-2M	Two-way 6 mm articulated camera with 2 m probe via SF
VSA2-1	Two-way 6 mm articulated camera with 1 m probe
VSA2-1M	Two-way 6 mm articulated camera with 1 m probe via SF
VSC2-58-1FM	Two-channel Camera, 5.8 mm diameter 1 m probe
VSC58-30M	5.8 mm camera with 30 m FG probe—QVGA via SF
VSC58-20M	5.8 mm camera with 20 m FG probe—QVGA via SF
VSS-30	30 m plumbing spool
VSS-20	20 m plumbing spool
VSC28	28 mm camera head for spool



FLIR VS70: Wired Articulation Camera Videoscope Combo

P/N: VS70-3

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Compatible cameras full list	
VSC25	25 mm camera head for spool
VS-BR25	Centering brush for VS70 camera probes
VS-BR28	Centering brush for VS70 camera probes
VS-RB	Replacement centering brush
VSC65-12S	12" stainless steel rigid probe
VSC41-2RM	4.1 mm camera with 2 m SR probe—QVGA via SF
VSC39-1FM	3.9 mm camera with 1 m flex probe—QVGA via SF
VSC58-2R	5.8 mm camera with 2 m SR probe—VGA via LF
VSC58-2RM	5.8 mm camera with 2 m SR probe—VGA via SF
VSC58-1R	5.8 mm camera with 1 m SR probe—VGA via LF
VSC58-1RM	5.8 mm camera with 1 m SR probe—VGA via SF
VSC80-2R	8 mm camera with 2 m SR probe—VGA via LF
VSC80-1R	8 mm camera with 1 m SR probe—VGA via LF

P/N: VS70-3-W

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The Wireless Articulation Combo kit includes the VS70, a wireless handset, and a dedicated 6 mm long-focus camera with two-way articulation on a 1 m semi-rigid cable. The kit provides an increased viewing distance and greater internal camera control.

ERP description	Wireless Articulation Combo
Kit contents	VS70 + VSA2-1-W

VS70 main unit general data	
LCD screen	145 mm (5.7"), 135 mm (5.3") viewable
Active matrix	Active matrix, 640 × 480 pixels
Memory type	SD card 4 GB included (32 GB maximum)
Compression format	MPEG4
Still image format	JPEG (640 × 480 pixels)
Video recording format	AVI (640 × 480 pixels)
Video output format	NTSC and PAL, frame rate 30 fps
Multi-language menu	Yes
Receiver frequency	2.4 GHz
Receiver sensitivity	-87 dBm (SNR = 42 dB, $F_{mod} = 15$)
Data/video	Mini USB 1.1 and AV out
Audio	Earphone plug, 3.5 mm, 4 rings
Speaker	15 mm, 32 Ω, 20Hz to 20 kHz
Microphone	Boom microphone 6 mm × 5 mm (0.24" × 0.2"), total length 10 cm (3.9"), wire length 1.2 m (3.9')
Tripod mount	On rear, accepts standard tripod screw
Certifications	FCC, CE
Warranty	2 years, see website for details

VS70 main unit power system	
Battery	3.7 V rechargeable lithium polymer
Battery life	6-8 hours
Power adapter	100-240 V input/5 V DC output
Battery status indication	Progressive with auto power off (APO)



FLIR VS70: Wireless Articulation Camera Videoscope Combo

P/N: VS70-3-W

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VS70 main unit environmental data	
IP rating	67
Drop test	2 m
Operating temperature	-10 to 60°C (14 to 140°F)
Operating humidity	80% maximum
Storage temperature	-40 to 80°C (-40 to 176°F)

VS70 main unit physical data	
Product weight	1.57 kg (3.46 lb.), including batteries
Product dimensions	241 mm × 178 mm × 70 mm (9.5" × 7" × 2.75")
Material	PC-ABS, rubber hand grip, nylon strap
Color	Gray and black

Camera VSA2-1-W (wireless two-way 6 mm articulated camera with 1 m probe)	
Diameter	6 mm
Resolution	VGA (640 × 480 pixels)
Probe length	1 m
Focal length	65 mm to infinity
Field of view	56°
Articulation	Two-way 240 ± 20° manual tip articulation
Integrated handset	Yes
Wireless capabilities	Yes, 2.4 GHz to main unit
Compatible main unit	VS70
Compatible wireless handset	N/A
Compatible detachable cameras	N/A
Warranty	2 years
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED
Operating temperature	-10°C to 50°C (14 to 122°F)
Power requirements	N/A

VSA2 power system	
Power requirements	Integrated rechargeable battery
Run time	2 hours continuous use
Auto power off	No
Power adapter	100–240 V input/5 V DC output

Shipping information	
Packaging type	Brown shipping box over hard case



FLIR VS70: Wireless Articulation Camera Videoscope Combo

P/N: VS70-3-W

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Shipping information	
Packaging contents	VS70 main unit, VSA2-1-W (wireless two-way 6 mm articulated camera with 1 m probe), VSA-60 (6 mm camera accessories: mirror, anti-snag tip, magnet), patch cable, 4 GB SD card, USB/video out cables, power adapters, vehicle charger, headset, neck strap, cleaning kit, VS-HC (VS70 hard case with camera storage), and user manual (printed English and translated on CD)
Packaging weight	7.5 kg
Packaging dimensions (H x W x L)	53 cm x 43.5 cm x 22 cm
Carton weight	16 kg
Carton dimensions (H x W x L)	55 cm x 46.5 cm x 46 cm
Carton quantity	2
EAN-13	0793950400753
UPC-12	793950400753
Country of origin	TW
Tariff code	9013809000

Technical support	
Website	http://support.flir.com
E-mail	TMSupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Documentation	
Manual languages (on CD and web)	Czech, Danish, German, Greece, English (US), Spanish (Spain), Finnish, French (France), Hungarian, Italian, Japanese, Korean, Bokmal Norwegian (Norway), Dutch Flemish (Netherlands), Polish, Portuguese (Portugal), Russian, Swedish, Chinese, Chinese (Taiwan)

Suggested cameras and accessories	
VST	Wireless handset
VS-2PC	2 m patch cable
VSA2-1-W	Wireless two-way 6 mm articulated camera with 1 m probe
VSC65-17S	17" stainless steel rigid probe

Compatible cameras full list	
VSA2-2M-W	Wireless two-way 6 mm articulated camera with 2 m probe via SF
VSA2-2-W	Wireless two-way 6 mm articulated camera with 2 m probe
VSA2-1M-W	Wireless two-way 6 mm articulated camera with 1 m probe via SF
VSA2-2	Two-way 6 mm articulated camera with 2 m probe
VSA2-2M	Two-way 6 mm articulated camera with 2 m probe via SF
VSA2-1	Two-way 6 mm articulated camera with 1 m probe
VSA2-1M	Two-way 6 mm articulated camera with 1 m probe via SF



FLIR VS70: Wireless Articulation Camera Videoscope Combo

P/N: VS70-3-W

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Compatible cameras full list	
VSC2-58-1FM	Two-channel camera, 5.8 mm diameter 1 m probe
VSC58-30M	5.8 mm camera with 30 m FG probe—QVGA via SF
VSC58-20M	5.8 mm camera with 20 m FG probe—QVGA via SF
VSS-30	30 m plumbing spool
VSS-20	20 m plumbing spool
VSC28	28 mm camera head for spool
VSC25	25 mm camera head for spool
VS-BR25	Centering brush for VS70 camera probes
VS-BR28	Centering brush for VS70 camera probes
VS-RB	Replacement centering brush
VSC65-12S	12" stainless steel rigid probe
VSC41-2RM	4.1 mm camera with 2 m SR probe—QVGA via SF
VSC39-1FM	3.9 mm camera with 1 m flex probe—QVGA via SF
VSC58-2R	5.8 mm camera with 2 m SR probe—VGA via LF
VSC58-2RM	5.8 mm camera with 2 m SR probe—VGA via SF
VSC58-1R	5.8 mm camera with 1 m SR probe—VGA via LF
VSC58-1RM	5.8 mm camera with 1 m SR probe—VGA via SF
VSC80-2R	8 mm camera with 2 m SR probe—VGA via LF
VSC80-1R	8 mm camera with 1 m SR probe—VGA via LF

P/N: VS70-KIT-W

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Wireless Bundle includes the VS70 and a wireless handset with a dedicated 6mm long focus, 2-way articulation camera on a 1-meter semi-rigid cable, and an 8mm long focus camera on a 1-meter cable. Allows long-distance views and close-up inspections.

ERP description	Starter Bundle: Main Unit, Two-way Articulation, General Purpose Camera
Kit contents	VS70 + VSA2-1-W + VSC80-1R

VS70 main unit general data	
LCD screen	145 mm (5.7"), 135 mm (5.3") viewable
Active matrix	Active matrix, 640 × 480 pixels
Memory type	SD card 4 GB included (32 GB maximum)
Compression format	MPEG4
Still image format	JPEG (640 × 480 pixels)
Video recording format	AVI (640 × 480 pixels)
Video output format:	NTSC and PAL, frame rate 30 fps
Multi-language menu	Yes
Receiver frequency	2.4 GHz
Receiver sensitivity	-87 dBm (SNR = 42 dB, $F_{mod} = 15$)
Data/video	Mini USB 1.1 and AV out
Audio	Earphone plug, 3.5 mm, 4 rings
Speaker	15 mm, 32 Ω, 20 Hz to 20 kHz
Microphone	Boom microphone 6 mm × 5 mm (0.24" × 0.2"), total length 10 cm (3.9"), wire length 1.2 m (3.9')
Tripod mount	On rear, accepts standard tripod screw
Certifications	FCC, CE
Warranty	2 years, see website for details

VS70 main unit power system	
Battery	3.7 V rechargeable lithium polymer
Battery life	6–8 hours
Power adapter	100–240 V input/5 V DC output
Battery status indication	Progressive with auto power off (APO)



FLIR VS70: Wireless Bundle w wireless Articulation and extra camera Videoscope Kit

P/N: VS70-KIT-W

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

VS70 main unit environmental data	
IP rating	67
Drop test	2 m
Operating temperature	-10 to 60°C (14 to 140°F)
Operating humidity	80% maximum
Storage temperature	-40 to 80°C (-40 to 176°F)

VS70 main unit physical data	
Product weight	1.57 kg (3.46 lb.), including batteries
Product dimensions	241 mm × 178 mm × 70 mm (9.5" × 7" × 2.75")
Material	PC-ABS, rubber hand grip, nylon strap
Color	Gray and black

Camera VSA2-1-W (wireless two-way 6 mm articulated camera with 1 m probe)	
Diameter	6 mm
Resolution	VGA (640 × 480 pixels)
Probe length	1 m
Focal length	65 mm to infinity
Field of view	56°
Articulation	Two-way 240 ± 20° manual tip articulation
Integrated handset	Yes
Wireless capabilities	Yes, 2.4 GHz to main unit
Compatible main unit	VS70
Compatible wireless handset	N/A
Compatible detachable cameras	N/A
Warranty	2 years
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED
Operating temperature	-10 to 50°C (14 to 122°F)
Power requirements	N/A

VSA2 power system	
Power requirements	Integrated rechargeable battery
Run time	2 hours continuous use
Auto power off	No
Power adapter	100–240 V input/5 V DC output

Camera VSC80-1R (8 mm camera with 1 m SR probe—VGA via LF)	
Diameter	8 mm
Resolution	VGA (640 × 480 pixels)
Probe length	1 m



FLIR VS70: Wireless Bundle w wireless Articulation and extra camera Videoscope Kit

P/N: VS70-KIT-W

Revision

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Website

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Customer support

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Camera VSC80-1R (8 mm camera with 1 m SR probe—VGA via LF)	
Focal length	65 mm to infinity
Field of view	56°
Integrated handset	N/A
Wireless capabilities	N/A
Compatible main unit	VS70
Compatible wireless handset	VST
Compatible detachable cameras	N/A
Warranty	2 years
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED
Operating temperature	-10°C to 50°C (14 to 122°F)

Shipping information	
Packaging type	Brown shipping box over hard case
Packaging contents	VS70 main unit, VSA2-1 (two-way 6 mm articulated camera with 1 m probe), VSA-60 (6 mm camera accessories: mirror, anti-snap tip, magnet), patch cable, 4 GB SD card, USB/video out cables, power adapters, vehicle charger, headset, neck strap, cleaning kit, VS-HC (VS70 hard case with camera storage), and user manual (printed English and translated on CD)
Packaging weight	7.5 kg
Packaging dimensions (H x W x L)	53 cm x 43.5 cm x 22 cm
Carton weight	16 kg
Carton dimensions (H x W x L)	55 cm x 46.5 cm x 46 cm
Carton quantity	2
EAN-13	0793950400777
UPC-12	793950400777
Country of origin	TW
Tariff code	9013809000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Documentation	
Manual Languages (on CD and web)	Czech, Danish, German, Greece, English (US), Spanish (Spain), Finnish, French (France), Hungarian, Italian, Japanese, Korean, Bokmal Norwegian (Norway), Dutch Flemish (Netherlands), Polish, Portuguese (Portugal), Russian, Swedish, Chinese, Chinese (Taiwan)



FLIR VS70: Wireless Bundle w wireless Articulation and extra camera Videoscope Kit

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Suggested cameras and accessories	
VST	Wireless handset
VS-2PC	2 m patch cable
VSA2-1-W	Wireless two-way 6 mm articulated camera with 1 m probe
VSC65-17S	17" stainless steel rigid probe

Compatible cameras full list	
VSA2-2M-W	Wireless two-way 6 mm articulated camera with 2 m probe via SF
VSA2-2-W	Wireless two-way 6 mm articulated camera with 2 m probe
VSA2-1M-W	Wireless two-way 6 mm articulated camera with 1 m probe via SF
VSA2-2	Two-way 6 mm articulated camera with 2 m probe
VSA2-2M	Two-way 6 mm articulated camera with 2 m probe via SF
VSA2-1	Two-way 6 mm articulated camera with 1 m probe
VSA2-1M	Two-way 6 mm articulated camera with 1 m probe via SF
VSC2-58-1FM	Two-channel camera, 5.8 mm diameter 1 m probe
VSC58-30M	5.8 mm camera with 30 m FG probe—QVGA via SF
VSC58-20M	5.8 mm camera with 20 m FG probe—QVGA via SF
VSS-30	30 m plumbing spool
VSS-20	20 m plumbing spool
VSC28	28 mm camera head for spool
VSC25	25 mm camera head for spool
VS-BR25	Centering brush for VS70 camera probes
VS-BR28	Centering brush for VS70 camera probes
VS-RB	Replacement centering brush
VSC65-12S	12" stainless steel rigid probe
VSC41-2RM	4.1 mm camera with 2 m SR probe—QVGA via SF
VSC39-1FM	3.9 mm camera with 1 m flex probe—QVGA via SF
VSC58-2R	5.8 mm camera with 2 m SR probe—VGA via LF
VSC58-2RM	5.8 mm camera with 2 m SR probe—VGA via SF
VSC58-1R	5.8 mm camera with 1 m SR probe—VGA via LF
VSC58-1RM	5.8 mm camera with 1 m SR probe—VGA via SF
VSC80-2R	8 mm camera with 2 m SR probe—VGA via LF
VSC80-1R	8 mm camera with 1 m SR probe—VGA via LF

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The Wireless General Purpose Combo kit includes the VS70, a wireless handset (VST), and a non-dedicated 8 mm long-focus camera on a 1 m semi-rigid cable. The wireless handset makes it easy to manipulate the camera probe while keeping the display in clear view.

ERP description	Wireless General Purpose Combo
Kit contents	VS70 + VST + VSC8.01R

VS70 main unit general data	
LCD screen	145 mm (5.7"), 135 mm (5.3") viewable
Active matrix	Active matrix, 640 × 480 pixels
Memory type	SD card 4 GB included (32 GB maximum)
Compression format	MPEG4
Still image format	JPEG (640 × 480 pixels)
Video recording format	AVI (640 × 480 pixels)
Video output format	NTSC and PAL, frame rate 30 fps
Multi-language menu	Yes
Receiver frequency	2.4 GHz
Receiver sensitivity	-87 dBm (SNR = 42 dB, $F_{mod} = 15$)
Data/video	Mini USB 1.1 and AV out
Audio	Earphone plug, 3.5 mm, 4 rings
Speaker	15 mm, 32 Ω, 20 Hz to 20 kHz
Microphone	Boom microphone 6 mm × 5 mm (0.24" × 0.2"), total length 10 cm (3.9"), wire length 1.2 m (3.9')
Tripod mount	On rear, accepts standard tripod screw
Certifications	FCC, CE
Warranty	2 years, see website for details

VS70 main unit power system	
Battery	3.7 V rechargeable lithium polymer
Battery life	6–8 hours
Power adapter	100–240 V input/5 V DC output
Battery status indication	Progressive with auto power off (APO)



FLIR VS70: Wireless General Purpose Videoscope Combo

P/N: VS70-1-W

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VS70 main unit environmental data	
IP rating	67
Drop test	2 m
Operating temperature	-10 to 60°C (14 to 140°F)
Operating humidity	80% maximum
Storage temperature	-40 to 80°C (-40 to 176°F)

VS70 main unit physical data	
Product weight	1.57 kg (3.46 lb.), including batteries
Product dimensions	241 mm × 178 mm × 70 mm (9.5" × 7" × 2.75")
Material	PC-ABS, rubber hand grip, nylon strap
Color	Gray and black

Camera VSC80-1R general data	
ERP description	8 mm camera with 1 m SR probe—VGA via LF
Compatible main unit	VS70
Compatible wireless handset	VST
Compatible cameras	N/A
Diameter	8 mm
Resolution	VGA (640 × 480 pixels)
Probe length	1 m
Focal length	65 mm to infinity
Field of view	56°
Warranty	2 years
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED
Operating temperature	-10 to 50°C (14 to 122°F)

VST general data	
ERP description	Wireless 2.4 GHz VS70 transmitter
Compatible main unit	VS70
Compatible wireless handset	N/A
Compatible cameras	VSC3.9-1FM, VSC4.1-2RM, VSC5.8-1RM, VSC5.8-2RM, VSC5.8-1R, VSC5.8-2R, VSC5.8-20M, VSC5.8-30M, VSC8.0-1R, VSC8.0-2R, VSC6.5-12S, VSC6.5-17S, VSS-20, VSS-30
Wireless frequency	2.4 GHz to main unit
Video system	NTSC/PAL
Battery	3.7 V rechargeable lithium polymer
Charge time	~2 hours
Power adapter	100–240 V input/9 V DC output
Unobstructed effective range	10 m (32.5')
Operating temperature	-10 to 60°C (14 to 140°F)



FLIR VS70: Wireless General Purpose Videoscope Combo

P/N: VS70-1-W

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VST general data	
Storage temperature	-40 to 80°C (-40 to 176°F)
Product dimensions	190 mm × 70 mm × 63.5 mm (7.5" × 2.75" × 2.5")
Weight (approximate)	0.43 kg (0.95 lb.)
Color	Gray and black
Warranty	2 years

VST power system	
Power requirements	Integrated rechargeable battery
Run time	2 hours continuous use
Auto power off	No

Shipping information	
Packaging type	Brown shipping box over hard case
Packaging contents	VS70 main unit, VSC80-1R (8 mm camera with 1 m SR probe—VGA via LF), VSA-80 (8 mm camera accessories: mirror, anti-snap tip, magnet), patch cable, 4 GB SD card, USB/video out cables, power adapters, vehicle charger, headset, neck strap, cleaning kit, VS-HC (VS70 hard case with camera storage), and user manual (printed English and translated on CD)
Packaging weight	7.5 kg
Packaging dimensions (H × W × L)	53 cm × 43.5 cm × 22 cm
Carton weight	16 kg
Carton dimensions (H × W × L)	55 cm × 46.5 cm × 46 cm
Carton quantity	2
EAN-13	0793950400722
UPC-12	793950400722
Country of origin	TW
Tariff code	9013809000

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Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Documentation	
Manual languages (on CD and web)	Czech, Danish, German, Greece, English (US), Spanish (Spain), Finnish, French (France), Hungarian, Italian, Japanese, Korean, Bokmal Norwegian (Norway), Dutch Flemish (Netherlands), Polish, Portuguese (Portugal), Russian, Swedish, Chinese, Chinese (Taiwan)

Suggested cameras and accessories	
VS-2PC	2 m patch cable
VSA2-1-W	Wireless two-way 6 mm articulated camera with 1 m probe
VSC65-17S	17" stainless steel rigid probe



FLIR VS70: Wireless General Purpose Videoscope Combo

P/N: VS70-1-W

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Compatible cameras full list	
VSA2-2M-W	Wireless two-way 6 mm articulated camera with 2 m probe SF
VSA2-2-W	Wireless two-way 6 mm articulated camera with 2 m probe
VSA2-1M-W	Wireless two-way 6 mm articulated camera with 1 m probe SF
VSA2-2	Two-way 6 mm articulated camera with 2 m probe
VSA2-2M	Two-way 6 mm articulated camera with 2 m probe via SF
VSA2-1	Two-way 6 mm articulated camera with 1 m probe
VSA2-1M	Two-way 6 mm articulated camera with 1 m probe via SF
VSC2-58-1FM	Two-channel camera, 5.8 mm diameter 1 m probe
VSC58-30M	5.8 mm camera with 30 m FG probe—QVGA via SF
VSC58-20M	5.8 mm camera with 20 m FG probe—QVGA via SF
VSS-30	30 m plumbing spool
VSS-20	20 m plumbing spool
VSC28	28 mm camera head for spool
VSC25	25 mm camera head for spool
VS-BR25	Centering brush for VS70 camera probes
VS-BR28	Centering brush for VS70 camera probes
VS-RB	Replacement centering brush
VSC65-12S	12" stainless steel rigid probe
VSC41-2RM	4.1 mm camera with 2 m SR probe—QVGA via SF
VSC39-1FM	3.9 mm camera with 1 m flex probe—QVGA via SF
VSC58-2R	5.8 mm camera with 2 m SR probe—VGA via LF
VSC58-2RM	5.8 mm camera with 2 m SR probe—VGA via SF
VSC58-1R	5.8 mm camera with 1 m SR probe—VGA via LF
VSC58-1RM	5.8 mm camera with 1 m SR probe—VGA via SF
VSC80-2R	8 mm camera with 2 m SR probe—VGA via LF
VSC80-1R	8 mm camera with 1 m SR probe—VGA via LF

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FLIR T5xx series

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P/N: 79301-0101

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Imaging and optical data	
Infrared resolution	320 × 240 pixels
UltraMax (super-resolution) ¹	In FLIR Tools
NETD	<ul style="list-style-type: none"> • <30 mK, 42° @ +30°C (+86°F) • <40 mK, 24° @ +30°C (+86°F) • <50 mK, 14° @ +30°C (+86°F)
Field of view	<ul style="list-style-type: none"> • 42° × 32° • 24° × 18° • 14° × 10°
Minimum focus distance	<ul style="list-style-type: none"> • 0.15 m (0.49 ft.), 42° • 0.15 m (0.49 ft.), 24° • 1.0 m (3.28 ft.), 14° • Macro mode 103 μm as option to 24°
Minimum focus distance with MSX	<ul style="list-style-type: none"> • 0.65 m (2.13 ft.), 42° • 0.5 m (1.64 ft.), 24° • 1.0 m (3.28 ft.), 14°
Focal length	<ul style="list-style-type: none"> • 10 mm (0.39 in.), 42° • 17 mm (0.67 in.), 24° • 29 mm (1.41 in.), 14°
Spatial resolution (IFOV)	<ul style="list-style-type: none"> • 2.41 mrad/pixel, 42° • 1.31 mrad/pixel, 24° • 0.75 mrad/pixel, 14°
Available extra lenses	<ul style="list-style-type: none"> • 42° • 24°
Lens identification	Automatic
f number	<ul style="list-style-type: none"> • 1.1, 42° • 1.3, 24° • 1.5, 14°
Image frequency	30 Hz
Focus	<ul style="list-style-type: none"> • Continuous LDM • One-shot LDM • One-shot contrast • Manual
Field of view match	Yes
Digital zoom	1–4x continuous
Detector data	
Focal plane array/spectral range	Uncooled microbolometer/7.5–14 μm

1. Not supported when using macro.



FLIR T530 14°

P/N: 79301-0101

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Detector data	
Detector pitch	17 µm

Image presentation	
Resolution	640 × 480 pixels (VGA)
Surface brightness (cd/m ²)	400
Screen size	4 in.
Viewing angle	80°
Color depth (bits)	24
Aspect ratio	4:3
Auto-rotation	Yes
Touchscreen	Optically bonded PCAP
Display technology	IPS
Cover glass material	Dragontrail®
Programmable buttons	2
Viewfinder	No
Image adjustment	<ul style="list-style-type: none"> • Automatic • Automatic maximum • Automatic minimum • Manual

Image presentation modes	
Infrared image	Yes
Visual image	Yes
MSX	Yes
Picture in picture	Resizable and movable
Gallery	Yes

Measurement		
Camera temperature range	Object temperature range	Accuracy — for ambient temperature +15 to +35°C (+59 to +95°F)
-20 to +120°C (-4 to +248°F)	-20 to +0°C (-4 to +32°F)	±2°C (±3.6°F)
	0 to +100°C (+32 to +212°F)	±2°C (±3.6°F)
	+100 to +120°C (+212 to +248°F)	±2%
0 to +650°C (+32 to +1202°F)	0 to +100°C (+32 to +212°F)	±2°C (±3.6°F)
	+100 to +650°C (+212 to +1202°F)	±2%
+300 to +1200°C (+572 to +2192°F)	+300 to +1200°C (+572 to +2192°F)	±2%

Measurement analysis	
Spotmeter	3 in live mode
Area	3 in live mode
Automatic hot/cold detection	Automatic maximum/minimum markers within area

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Measurement analysis	
Measurement presets	<ul style="list-style-type: none"> No measurements Center spot Hot spot Cold spot User preset 1 User preset 2
Difference temperature	Yes
Reference temperature	Yes
Emissivity correction	Yes, variable from 0.01 to 1.0 or selected from materials list
Measurement corrections	Yes
External optics/windows correction	Yes
Screening	0.5°C (0.9°F) accuracy at 37°C (98.6°F) with reference

Alarm	
Color alarm (isotherm)	<ul style="list-style-type: none"> Above Below Interval Condensation (moisture/humidity/dewpoint) Insulation
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function

Set-up	
Color palettes	<ul style="list-style-type: none"> Iron Gray Rainbow Arctic Lava Rainbow HC
Setup commands	Local adaptation of units, language, date, and time formats
Languages	21

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Storage media	Removable memory: SD card
Time lapse (Periodic image storage)	10 seconds to 24 hours (infrared)
Remote control operation	<ul style="list-style-type: none"> Using FLIR Tools (using USB cable) FLIR Tools Mobile (over Wi-Fi)
Image file format	Standard JPEG, measurement data included. Infrared-only mode

Image annotations	
Voice	60 seconds with built-in microphone and speaker (and via Bluetooth) on still images and video
Text	Text from predefined list or soft keyboard on touchscreen
Visual image annotation	Yes
Image sketch	Yes: on infrared only
Sketch	From touchscreen



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Image annotations	
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Area measurement information	Yes
GPS	Location data automatically added to every still image and first frame in video from built-in GPS

Video recording in camera	
Radiometric infrared-video recording	RTRR (.csq)
Non-radiometric infrared-video recording	H.264 to memory card
Visual video recording	H.264 to memory card

Video streaming	
Radiometric infrared-video streaming (compressed)	Over UVC or RTSP (Wi-Fi)
Non-radiometric video streaming (compressed: IR, MSX, visual, Picture in Picture)	<ul style="list-style-type: none"> H.264 (AVC) over RTSP (Wi-Fi) MPEG4 over RTSP (Wi-Fi) MJPEG over UVC and RTSP (Wi-Fi)
Visual video streaming	Yes

Digital camera	
Resolution	5 MP with LED light
Focus	Fixed
Field of view	53° × 41°
Video lamp	Built-in LED light

Laser pointer	
Laser alignment	Position is automatically displayed on the infrared image
Laser distance meter	Activated by dedicated button
Laser	Class 2, 0.05–40 m (0.16–131 ft.) ±1% of measured distance

Data communication interfaces	
Interfaces	USB 2.0, Bluetooth, Wi-Fi, DisplayPort
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
Audio	Microphone and speaker for voice annotation of images
USB	USB Type-C: data transfer/video/power
USB standard	USB 2.0 High Speed
Video out	DisplayPort
Video connector type	DisplayPort over USB Type-C

Power system	
Battery type	Rechargeable Li-ion battery
Battery voltage	3.6 V
Battery operating time	> 4 hours at 25°C (68°F) with typical use



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Power system	
Charging system	In camera (AC adapter or 12 V from a vehicle) or two-bay charger
Charging time (using two-bay charger)	3.5 h to 90% capacity, on-screen indicator
Charging temperature	0°C to +45°C (+32°F to +113°F), except for the Korean market: +10°C to +45°C (+50°F to +113°F)
External power operation	AC adapter 90–260 V AC (50/60 Hz) or 12 V from a vehicle (cable with standard plug, optional)
Power management	Automatic shut-down and sleep mode

Environmental data	
Operating temperature range	–15 to +50°C (5–122°F)
Storage temperature range	–40 to +70°C (–40 to 158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 hours, 95% relative humidity, 25–40°C (77–104°F)/2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (immunity)• EN 61000-6-3 (emission)• FCC 47 CFR Part 15 Class B (emission)
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 228• FCC Part 15.249• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25g (IEC 60068-2-27)
Vibration	2g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight (including battery)	1.3 kg (2.9 lb.)
Size (L × W × H)	<ul style="list-style-type: none">• Lens vertical: 140 × 201.3 × 84.1 mm (5.5 × 7.9 × 3.3 in.)• Lens horizontal: 140 × 201.3 × 167.3 mm (5.5 × 7.9 × 6.6 in.)
Battery weight	195 g (6.89 oz.)
Battery size (L × W × H)	59 × 66 × 94 mm (2.3 × 2.6 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	PCABS with TPE, magnesium
Color	Black

Warranty and service	
Warranty	http://www.flir.com/warranty/

Shipping information	
Packaging, type	Cardboard box



FLIR T530 14°

P/N: 79301-0101

Revision

48077

Last modified

2018-03-08 13:38 UTC+1

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Shipping information	
Packaging, contents	<ul style="list-style-type: none">Accessory box I:<ul style="list-style-type: none">SD card (8 GB)USB 2.0 A to USB Type-C cable, 1.0 mUSB Type-C to HDMI adapter, standard specification UH311USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 mPower supply for battery chargerPower supply, 15 W/3 APrinted documentationAccessory box II:<ul style="list-style-type: none">Neck strapLens cleaning clothLens cap strapLanyard strap, battery chargerInfrared camera with lensBattery (2 ea)Battery chargerHard transport caseLens cap, frontLens cap, front and rear (only for extra lenses)
Packaging, weight	5.8 kg (12.8 lb.)
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)
EAN-13	<ul style="list-style-type: none">Sweden: 7332558014691Estonia: 4743254003842
UPC-12	845188016791
Country of origin	Sweden and/or Estonia

Supplies and accessories:

- T198495; Pouch
- T197771ACC; Bluetooth Headset
- T911706ACC; Car adapter 12 V
- T199588; Lens 14° + case
- T199590; Lens 42° + case
- T199589; Lens 24° + case
- T911705ACC; USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m
- T911632ACC; USB Type-C to HDMI adapter, standard specification UH311
- T911631ACC; USB 2.0 A to USB Type-C cable, 0.9 m
- T911630ACC; Power supply for camera, 15 W/3 A
- T911633ACC; Power supply for battery charger
- T199610; Battery charger
- T199300ACC; Battery
- T199601; Hand strap and neck strap
- T199347ACC; Hard transport case
- T199609; Macro mode 71/103 μm for 24°
- T199616; High temperature option, +300 to +1200°C
- T198583; FLIR Tools+ (download card incl. license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)

P/N: 79302-0101

Revision

46836

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2017-12-11 15:37 UTC+1

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Imaging and optical data	
Infrared resolution	320 × 240 pixels
UltraMax (super-resolution) ¹	In FLIR Tools
NETD	<ul style="list-style-type: none"> • <30 mK, 42° @ +30°C (+86°F) • <40 mK, 24° @ +30°C (+86°F) • <50 mK, 14° @ +30°C (+86°F)
Field of view	<ul style="list-style-type: none"> • 42° × 32° • 24° × 18° • 14° × 10°
Minimum focus distance	<ul style="list-style-type: none"> • 0.15 m (0.49 ft.), 42° • 0.15 m (0.49 ft.), 24° • 1.0 m (3.28 ft.), 14° • Macro mode 103 μm as option to 24°
Minimum focus distance with MSX	<ul style="list-style-type: none"> • 0.65 m (2.13 ft.), 42° • 0.5 m (1.64 ft.), 24° • 1.0 m (3.28 ft.), 14°
Focal length	<ul style="list-style-type: none"> • 10 mm (0.39 in.), 42° • 17 mm (0.67 in.), 24° • 29 mm (1.41 in.), 14°
Spatial resolution (IFOV)	<ul style="list-style-type: none"> • 2.41 mrad/pixel, 42° • 1.31 mrad/pixel, 24° • 0.75 mrad/pixel, 14°
Available extra lenses	<ul style="list-style-type: none"> • 42° • 14°
Lens identification	Automatic
f number	<ul style="list-style-type: none"> • 1.1, 42° • 1.3, 24° • 1.5, 14°
Image frequency	30 Hz
Focus	<ul style="list-style-type: none"> • Continuous LDM • One-shot LDM • One-shot contrast • Manual
Field of view match	Yes
Digital zoom	1–4x continuous
Detector data	
Focal plane array/spectral range	Uncooled microbolometer/7.5–14 μm

1. Not supported when using macro.

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Website

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Customer support

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Detector data	
Detector pitch	17 µm

Image presentation	
Resolution	640 × 480 pixels (VGA)
Surface brightness (cd/m ²)	400
Screen size	4 in.
Viewing angle	80°
Color depth (bits)	24
Aspect ratio	4:3
Auto-rotation	Yes
Touchscreen	Optically bonded PCAP
Display technology	IPS
Cover glass material	Dragontrail®
Programmable buttons	2
Viewfinder	No
Image adjustment	<ul style="list-style-type: none"> • Automatic • Automatic maximum • Automatic minimum • Manual

Image presentation modes	
Infrared image	Yes
Visual image	Yes
MSX	Yes
Picture in picture	Resizable and movable
Gallery	Yes

Measurement	
Object temperature range	<ul style="list-style-type: none"> • -20 to +120°C (-4 to +248°F) • 0–650°C (32–1202°F) • Optional: 300–1200°C (572–2192°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading, for ambient temperature 15–35°C (59–95°F) and object temperature above 0°C (32°F)

Measurement analysis	
Spotmeter	3 in live mode
Area	3 in live mode
Automatic hot/cold detection	Automatic maximum/minimum markers within area
Measurement presets	<ul style="list-style-type: none"> • No measurements • Center spot • Hot spot • Cold spot • User preset 1 • User preset 2
Difference temperature	Yes
Reference temperature	Yes
Emissivity correction	Yes, variable from 0.01 to 1.0 or selected from materials list



FLIR T530 24°

P/N: 79302-0101

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Website

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Customer support

<http://support.flir.com>

Measurement analysis	
Measurement corrections	Yes
External optics/windows correction	Yes
Screening	0.5°C (0.9°F) accuracy at 37°C (98.6°F) with reference

Alarm	
Color alarm (isotherm)	<ul style="list-style-type: none"> Above Below Interval Condensation (moisture/humidity/dewpoint) Insulation
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function

Set-up	
Color palettes	<ul style="list-style-type: none"> Iron Gray Rainbow Arctic Lava Rainbow HC
Setup commands	Local adaptation of units, language, date, and time formats
Languages	21

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Storage media	Removable memory: SD card
Time lapse (Periodic image storage)	10 seconds to 24 hours (infrared)
Remote control operation	<ul style="list-style-type: none"> Using FLIR Tools (using USB cable) FLIR Tools Mobile (over Wi-Fi)
Image file format	Standard JPEG, measurement data included. Infrared-only mode

Image annotations	
Voice	60 seconds with built-in microphone and speaker (and via Bluetooth) on still images and video
Text	Text from predefined list or soft keyboard on touchscreen
Visual image annotation	Yes
Image sketch	Yes: on infrared only
Sketch	From touchscreen
METERLINK	Wireless connection (Bluetooth) to: FLIR meters with METERLINK
Area measurement information	Yes
GPS	Location data automatically added to every still image and first frame in video from built-in GPS

Video recording in camera	
Radiometric infrared-video recording	RTRR (.csq)



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Website

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Customer support

<http://support.flir.com>

Video recording in camera	
Non-radiometric infrared-video recording	H.264 to memory card
Visual video recording	H.264 to memory card

Video streaming	
Radiometric infrared-video streaming (compressed)	Over UVC or RTSP (Wi-Fi)
Non-radiometric video streaming (compressed: IR, MSX, visual, Picture in Picture)	<ul style="list-style-type: none">• H.264 (AVC) over RTSP (Wi-Fi)• MPEG4 over RTSP (Wi-Fi)• MJPEG over UVC and RTSP (Wi-Fi)
Visual video streaming	Yes

Digital camera	
Resolution	5 MP with LED light
Focus	Fixed
Field of view	53° × 41°
Video lamp	Built-in LED light

Laser pointer	
Laser alignment	Position is automatically displayed on the infrared image
Laser distance meter	Activated by dedicated button
Laser	Class 2, 0.05–40 m (0.16–131 ft.) ±1% of measured distance

Data communication interfaces	
Interfaces	USB 2.0, Bluetooth, Wi-Fi, DisplayPort
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
Audio	Microphone and speaker for voice annotation of images
USB	USB Type-C: data transfer/video/power
USB standard	USB 2.0 High Speed
Video out	DisplayPort
Video connector type	DisplayPort over USB Type-C

Power system	
Battery type	Rechargeable Li-ion battery
Battery voltage	3.6 V
Battery operating time	> 4 hours at 25°C (68°F) with typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or two-bay charger
Charging time (using two-bay charger)	3.5 h to 90% capacity, on-screen indicator
Charging temperature	0°C to +45°C (+32°F to +113°F), except for the Korean market: +10°C to +45°C (+50°F to +113°F)
External power operation	AC adapter 90–260 V AC (50/60 Hz) or 12 V from a vehicle (cable with standard plug, optional)
Power management	Automatic shut-down and sleep mode



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Website

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Customer support

<http://support.flir.com>

Environmental data	
Operating temperature range	-15 to +50°C (5–122°F)
Storage temperature range	-40 to +70°C (-40 to 158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 hours, 95% relative humidity, 25–40°C (77–104°F)/2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (immunity)• EN 61000-6-3 (emission)• FCC 47 CFR Part 15 Class B (emission)
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 228• FCC Part 15.249• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25g (IEC 60068-2-27)
Vibration	2g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight (including battery)	1.3 kg (2.9 lb.)
Size (L × W × H)	<ul style="list-style-type: none">• Lens vertical: 140 × 201.3 × 84.1 mm (5.5 × 7.9 × 3.3 in.)• Lens horizontal: 140 × 201.3 × 167.3 mm (5.5 × 7.9 × 6.6 in.)
Battery weight	195 g (6.89 oz.)
Battery size (L × W × H)	59 × 66 × 94 mm (2.3 × 2.6 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	PCABS with TPE, magnesium
Color	Black

Warranty and service	
Warranty	http://www.flir.com/warranty/

Shipping information	
Packaging, type	Cardboard box
Packaging, contents	<ul style="list-style-type: none">• Accessory box I:<ul style="list-style-type: none">• SD card (8 GB)• USB 2.0 A to USB Type-C cable, 1.0 m• USB Type-C to HDMI adapter, standard specification UH311• USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m• Power supply for battery charger• Power supply, 15 W/3 A• Printed documentation• Accessory box II:<ul style="list-style-type: none">• Neck strap• Lens cleaning cloth• Lens cap strap• Lanyard strap, battery charger• Infrared camera with lens• Battery (2 ea)• Battery charger• Hard transport case• Lens cap, front• Lens cap, front and rear (only for extra lenses)
Packaging, weight	5.8 kg (12.8 lb.)
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)



FLIR T530 24°

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Website

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Customer support

<http://support.flir.com>

Shipping information	
EAN-13	<ul style="list-style-type: none">Sweden: 7332558012925Estonia: 4743254003200
UPC-12	845188014612
Country of origin	Sweden and/or Estonia

Supplies and accessories:

- T198495; Pouch
- T197771ACC; Bluetooth Headset
- T911706ACC; Car adapter 12 V
- T199588; Lens 14° + case
- T199590; Lens 42° + case
- T199589; Lens 24° + case
- T911705ACC; USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m
- T911632ACC; USB Type-C to HDMI adapter, standard specification UH311
- T911631ACC; USB 2.0 A to USB Type-C cable, 0.9 m
- T911630ACC; Power supply for camera, 15 W/3 A
- T911633ACC; Power supply for battery charger
- T199610; Battery charger
- T199300ACC; Battery
- T199601; Hand strap and neck strap
- T199347ACC; Hard transport case
- T199609; Macro mode 71/103 µm for 24°
- T199616; High temperature option, +300 to +1200°C
- T198583; FLIR Tools+ (download card incl. license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)

P/N: 79306-0101

Revision

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Website

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Customer support

<http://support.flir.com>



Imaging and optical data	
Infrared resolution	320 × 240 pixels
UltraMax (super-resolution) ¹	In FLIR Tools
NETD	<ul style="list-style-type: none"> • <30 mK, 42° @ +30°C (+86°F) • <40 mK, 24° @ +30°C (+86°F) • <50 mK, 14° @ +30°C (+86°F)
Field of view	<ul style="list-style-type: none"> • 42° × 32° • 24° × 18° • 14° × 10°
Minimum focus distance	<ul style="list-style-type: none"> • 0.15 m (0.49 ft.), 42° • 0.15 m (0.49 ft.), 24° • 1.0 m (3.28 ft.), 14° • Macro mode 103 μm as option to 24°
Minimum focus distance with MSX	<ul style="list-style-type: none"> • 0.65 m (2.13 ft.), 42° • 0.5 m (1.64 ft.), 24° • 1.0 m (3.28 ft.), 14°
Focal length	<ul style="list-style-type: none"> • 10 mm (0.39 in.), 42° • 17 mm (0.67 in.), 24° • 29 mm (1.41 in.), 14°
Spatial resolution (IFOV)	<ul style="list-style-type: none"> • 2.41 mrad/pixel, 42° • 1.31 mrad/pixel, 24° • 0.75 mrad/pixel, 14°
Lens identification	Automatic
f number	<ul style="list-style-type: none"> • 1.1, 42° • 1.3, 24° • 1.5, 14°
Image frequency	30 Hz
Focus	<ul style="list-style-type: none"> • Continuous LDM • One-shot LDM • One-shot contrast • Manual
Field of view match	Yes
Digital zoom	1–4x continuous
Detector data	
Focal plane array/spectral range	Uncooled microbolometer/7.5–14 μm
Detector pitch	17 μm

1. Not supported when using macro.

P/N: 79306-0101

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Website

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Customer support

<http://support.flir.com>

Image presentation	
Resolution	640 × 480 pixels (VGA)
Surface brightness (cd/m ²)	400
Screen size	4 in.
Viewing angle	80°
Color depth (bits)	24
Aspect ratio	4:3
Auto-rotation	Yes
Touchscreen	Optically bonded PCAP
Display technology	IPS
Cover glass material	Dragontrail®
Programmable buttons	2
Viewfinder	No
Image adjustment	<ul style="list-style-type: none"> • Automatic • Automatic maximum • Automatic minimum • Manual

Image presentation modes	
Infrared image	Yes
Visual image	Yes
MSX	Yes
Picture in picture	Resizable and movable
Gallery	Yes

Measurement	
Object temperature range	<ul style="list-style-type: none"> • -20 to +120°C (-4 to +248°F) • 0–650°C (32–1202°F) • Optional: 300–1200°C (572–2192°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading, for ambient temperature 15–35°C (59–95°F) and object temperature above 0°C (32°F)

Measurement analysis	
Spotmeter	3 in live mode
Area	3 in live mode
Automatic hot/cold detection	Automatic maximum/minimum markers within area
Measurement presets	<ul style="list-style-type: none"> • No measurements • Center spot • Hot spot • Cold spot • User preset 1 • User preset 2
Difference temperature	Yes
Reference temperature	Yes
Emissivity correction	Yes, variable from 0.01 to 1.0 or selected from materials list
Measurement corrections	Yes
External optics/windows correction	Yes



FLIR T530 24° + 14° & 42°

P/N: 79306-0101

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Measurement analysis	
Screening	0.5°C (0.9°F) accuracy at 37°C (98.6°F) with reference

Alarm	
Color alarm (isotherm)	<ul style="list-style-type: none"> • Above • Below • Interval • Condensation (moisture/humidity/dewpoint) • Insulation
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function

Set-up	
Color palettes	<ul style="list-style-type: none"> • Iron • Gray • Rainbow • Arctic • Lava • Rainbow HC
Setup commands	Local adaptation of units, language, date, and time formats
Languages	21

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Storage media	Removable memory: SD card
Time lapse (Periodic image storage)	10 seconds to 24 hours (infrared)
Remote control operation	<ul style="list-style-type: none"> • Using FLIR Tools (using USB cable) • FLIR Tools Mobile (over Wi-Fi)
Image file format	Standard JPEG, measurement data included. Infrared-only mode

Image annotations	
Voice	60 seconds with built-in microphone and speaker (and via Bluetooth) on still images and video
Text	Text from predefined list or soft keyboard on touchscreen
Visual image annotation	Yes
Image sketch	Yes: on infrared only
Sketch	From touchscreen
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Area measurement information	Yes
GPS	Location data automatically added to every still image and first frame in video from built-in GPS

Video recording in camera	
Radiometric infrared-video recording	RTRR (.csq)
Non-radiometric infrared-video recording	H.264 to memory card
Visual video recording	H.264 to memory card



FLIR T530 24° + 14° & 42°

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Website

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Customer support

<http://support.flir.com>

Video streaming	
Radiometric infrared-video streaming (compressed)	Over UVC or RTSP (Wi-Fi)
Non-radiometric video streaming (compressed: IR, MSX, visual, Picture in Picture)	<ul style="list-style-type: none">• H.264 (AVC) over RTSP (Wi-Fi)• MPEG4 over RTSP (Wi-Fi)• MJPEG over UVC and RTSP (Wi-Fi)
Visual video streaming	Yes

Digital camera	
Resolution	5 MP with LED light
Focus	Fixed
Field of view	53° x 41°
Video lamp	Built-in LED light

Laser pointer	
Laser alignment	Position is automatically displayed on the infrared image
Laser distance meter	Activated by dedicated button
Laser	Class 2, 0.05–40 m (0.16–131 ft.) ±1% of measured distance

Data communication interfaces	
Interfaces	USB 2.0, Bluetooth, Wi-Fi, DisplayPort
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
Audio	Microphone and speaker for voice annotation of images
USB	USB Type-C: data transfer/video/power
USB standard	USB 2.0 High Speed
Video out	DisplayPort
Video connector type	DisplayPort over USB Type-C

Power system	
Battery type	Rechargeable Li-ion battery
Battery voltage	3.6 V
Battery operating time	> 4 hours at 25°C (68°F) with typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or two-bay charger
Charging time (using two-bay charger)	3.5 h to 90% capacity, on-screen indicator
Charging temperature	0°C to +45°C (+32°F to +113°F), except for the Korean market: +10°C to +45°C (+50°F to +113°F)
External power operation	AC adapter 90–260 V AC (50/60 Hz) or 12 V from a vehicle (cable with standard plug, optional)
Power management	Automatic shut-down and sleep mode

Environmental data	
Operating temperature range	–15 to +50°C (5–122°F)
Storage temperature range	–40 to +70°C (–40 to 158°F)



FLIR T530 24° + 14° & 42°

P/N: 79306-0101

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Environmental data	
Humidity (operating and storage)	IEC 60068-2-30/24 hours, 95% relative humidity, 25–40°C (77–104°F)/2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (immunity)• EN 61000-6-3 (emission)• FCC 47 CFR Part 15 Class B (emission)
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 228• FCC Part 15.249• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25g (IEC 60068-2-27)
Vibration	2g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight (including battery)	1.3 kg (2.9 lb.)
Size (L × W × H)	<ul style="list-style-type: none">• Lens vertical: 140 × 201.3 × 84.1 mm (5.5 × 7.9 × 3.3 in.)• Lens horizontal: 140 × 201.3 × 167.3 mm (5.5 × 7.9 × 6.6 in.)
Battery weight	195 g (6.89 oz.)
Battery size (L × W × H)	59 × 66 × 94 mm (2.3 × 2.6 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	PCABS with TPE, magnesium
Color	Black

Warranty and service	
Warranty	http://www.flir.com/warranty/

Shipping information	
Packaging, type	Cardboard box
Packaging, contents	<ul style="list-style-type: none">• Extra lens, 14°• Extra lens, 42°• Accessory box I:<ul style="list-style-type: none">• SD card (8 GB)• USB 2.0 A to USB Type-C cable, 1.0 m• USB Type-C to HDMI adapter, standard specification UH311• USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m• Power supply for battery charger• Power supply, 15 W/3 A• Printed documentation• Accessory box II:<ul style="list-style-type: none">• Neck strap• Lens cleaning cloth• Lens cap strap• Lanyard strap, battery charger• Infrared camera with lens• Battery (2 ea)• Battery charger• Hard transport case• Lens cap, front• Lens cap, front and rear (only for extra lenses)
Packaging, weight	6.4 kg (14.1 lb.)
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)
EAN-13	<ul style="list-style-type: none">• Sweden: 7332558012963• Estonia: 4743254003248



FLIR T530 24° + 14° & 42°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Shipping information	
UPC-12	845188014650
Country of origin	Sweden and/or Estonia

Supplies and accessories:

- T198495; Pouch
- T197771ACC; Bluetooth Headset
- T911706ACC; Car adapter 12 V
- T199588; Lens 14° + case
- T199590; Lens 42° + case
- T199589; Lens 24° + case
- T911705ACC; USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m
- T911632ACC; USB Type-C to HDMI adapter, standard specification UH311
- T911631ACC; USB 2.0 A to USB Type-C cable, 0.9 m
- T911630ACC; Power supply for camera, 15 W/3 A
- T911633ACC; Power supply for battery charger
- T199610; Battery charger
- T199300ACC; Battery
- T199601; Hand strap and neck strap
- T199347ACC; Hard transport case
- T199609; Macro mode 71/103 µm for 24°
- T199616; High temperature option, +300 to +1200°C
- T198583; FLIR Tools+ (download card incl. license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)

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Website

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Customer support

<http://support.flir.com>



Imaging and optical data	
Infrared resolution	320 × 240 pixels
UltraMax (super-resolution) ¹	In FLIR Tools
NETD	<ul style="list-style-type: none"> • <30 mK, 42° @ +30°C (+86°F) • <40 mK, 24° @ +30°C (+86°F) • <50 mK, 14° @ +30°C (+86°F)
Field of view	<ul style="list-style-type: none"> • 42° × 32° • 24° × 18° • 14° × 10°
Minimum focus distance	<ul style="list-style-type: none"> • 0.15 m (0.49 ft.), 42° • 0.15 m (0.49 ft.), 24° • 1.0 m (3.28 ft.), 14° • Macro mode 103 μm as option to 24°
Minimum focus distance with MSX	<ul style="list-style-type: none"> • 0.65 m (2.13 ft.), 42° • 0.5 m (1.64 ft.), 24° • 1.0 m (3.28 ft.), 14°
Focal length	<ul style="list-style-type: none"> • 10 mm (0.39 in.), 42° • 17 mm (0.67 in.), 24° • 29 mm (1.41 in.), 14°
Spatial resolution (IFOV)	<ul style="list-style-type: none"> • 2.41 mrad/pixel, 42° • 1.31 mrad/pixel, 24° • 0.75 mrad/pixel, 14°
Available extra lenses	<ul style="list-style-type: none"> • 14°
Lens identification	Automatic
f number	<ul style="list-style-type: none"> • 1.1, 42° • 1.3, 24° • 1.5, 14°
Image frequency	30 Hz
Focus	<ul style="list-style-type: none"> • Continuous LDM • One-shot LDM • One-shot contrast • Manual
Field of view match	Yes
Digital zoom	1–4× continuous
Detector data	
Focal plane array/spectral range	Uncooled microbolometer/7.5–14 μm
Detector pitch	17 μm

1. Not supported when using macro.



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Website

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Customer support

<http://support.flir.com>

Image presentation	
Resolution	640 × 480 pixels (VGA)
Surface brightness (cd/m ²)	400
Screen size	4 in.
Viewing angle	80°
Color depth (bits)	24
Aspect ratio	4:3
Auto-rotation	Yes
Touchscreen	Optically bonded PCAP
Display technology	IPS
Cover glass material	Dragontrail®
Programmable buttons	2
Viewfinder	No
Image adjustment	<ul style="list-style-type: none">• Automatic• Automatic maximum• Automatic minimum• Manual

Image presentation modes	
Infrared image	Yes
Visual image	Yes
MSX	Yes
Picture in picture	Resizable and movable
Gallery	Yes

Measurement	
Object temperature range	<ul style="list-style-type: none">• -20 to +120°C (-4 to +248°F)• 0–650°C (32–1202°F)• Optional: 300–1200°C (572–2192°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading, for ambient temperature 15–35°C (59–95°F) and object temperature above 0°C (32°F)

Measurement analysis	
Spotmeter	3 in live mode
Area	3 in live mode
Automatic hot/cold detection	Automatic maximum/minimum markers within area
Measurement presets	<ul style="list-style-type: none">• No measurements• Center spot• Hot spot• Cold spot• User preset 1• User preset 2
Difference temperature	Yes
Reference temperature	Yes
Emissivity correction	Yes, variable from 0.01 to 1.0 or selected from materials list
Measurement corrections	Yes
External optics/windows correction	Yes



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Measurement analysis	
Screening	0.5°C (0.9°F) accuracy at 37°C (98.6°F) with reference

Alarm	
Color alarm (isotherm)	<ul style="list-style-type: none">• Above• Below• Interval• Condensation (moisture/humidity/dewpoint)• Insulation
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function

Set-up	
Color palettes	<ul style="list-style-type: none">• Iron• Gray• Rainbow• Arctic• Lava• Rainbow HC
Setup commands	Local adaptation of units, language, date, and time formats
Languages	21

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Storage media	Removable memory: SD card
Time lapse (Periodic image storage)	10 seconds to 24 hours (infrared)
Remote control operation	<ul style="list-style-type: none">• Using FLIR Tools (using USB cable)• FLIR Tools Mobile (over Wi-Fi)
Image file format	Standard JPEG, measurement data included. Infrared-only mode

Image annotations	
Voice	60 seconds with built-in microphone and speaker (and via Bluetooth) on still images and video
Text	Text from predefined list or soft keyboard on touchscreen
Visual image annotation	Yes
Image sketch	Yes: on infrared only
Sketch	From touchscreen
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Area measurement information	Yes
GPS	Location data automatically added to every still image and first frame in video from built-in GPS

Video recording in camera	
Radiometric infrared-video recording	RTRR (.csq)
Non-radiometric infrared-video recording	H.264 to memory card
Visual video recording	H.264 to memory card



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Customer support

<http://support.flir.com>

Video streaming	
Radiometric infrared-video streaming (compressed)	Over UVC or RTSP (Wi-Fi)
Non-radiometric video streaming (compressed: IR, MSX, visual, Picture in Picture)	<ul style="list-style-type: none">• H.264 (AVC) over RTSP (Wi-Fi)• MPEG4 over RTSP (Wi-Fi)• MJPEG over UVC and RTSP (Wi-Fi)
Visual video streaming	Yes

Digital camera	
Resolution	5 MP with LED light
Focus	Fixed
Field of view	53° x 41°
Video lamp	Built-in LED light

Laser pointer	
Laser alignment	Position is automatically displayed on the infrared image
Laser distance meter	Activated by dedicated button
Laser	Class 2, 0.05–40 m (0.16–131 ft.) ±1% of measured distance

Data communication interfaces	
Interfaces	USB 2.0, Bluetooth, Wi-Fi, DisplayPort
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
Audio	Microphone and speaker for voice annotation of images
USB	USB Type-C: data transfer/video/power
USB standard	USB 2.0 High Speed
Video out	DisplayPort
Video connector type	DisplayPort over USB Type-C

Power system	
Battery type	Rechargeable Li-ion battery
Battery voltage	3.6 V
Battery operating time	> 4 hours at 25°C (68°F) with typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or two-bay charger
Charging time (using two-bay charger)	3.5 h to 90% capacity, on-screen indicator
Charging temperature	0°C to +45°C (+32°F to +113°F), except for the Korean market: +10°C to +45°C (+50°F to +113°F)
External power operation	AC adapter 90–260 V AC (50/60 Hz) or 12 V from a vehicle (cable with standard plug, optional)
Power management	Automatic shut-down and sleep mode

Environmental data	
Operating temperature range	–15 to +50°C (5–122°F)
Storage temperature range	–40 to +70°C (–40 to 158°F)



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Environmental data	
Humidity (operating and storage)	IEC 60068-2-30/24 hours, 95% relative humidity, 25–40°C (77–104°F)/2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (immunity)• EN 61000-6-3 (emission)• FCC 47 CFR Part 15 Class B (emission)
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 228• FCC Part 15.249• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25g (IEC 60068-2-27)
Vibration	2g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight (including battery)	1.3 kg (2.9 lb.)
Size (L × W × H)	<ul style="list-style-type: none">• Lens vertical: 140 × 201.3 × 84.1 mm (5.5 × 7.9 × 3.3 in.)• Lens horizontal: 140 × 201.3 × 167.3 mm (5.5 × 7.9 × 6.6 in.)
Battery weight	195 g (6.89 oz.)
Battery size (L × W × H)	59 × 66 × 94 mm (2.3 × 2.6 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	PCABS with TPE, magnesium
Color	Black

Warranty and service	
Warranty	http://www.flir.com/warranty/

Shipping information	
Packaging, type	Cardboard box
Packaging, contents	<ul style="list-style-type: none">• Extra lens, 42°• Accessory box I:<ul style="list-style-type: none">• SD card (8 GB)• USB 2.0 A to USB Type-C cable, 1.0 m• USB Type-C to HDMI adapter, standard specification UH311• USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m• Power supply for battery charger• Power supply, 15 W/3 A• Printed documentation• Accessory box II:<ul style="list-style-type: none">• Neck strap• Lens cleaning cloth• Lens cap strap• Lanyard strap, battery charger• Infrared camera with lens• Battery (2 ea)• Battery charger• Hard transport case• Lens cap, front• Lens cap, front and rear (only for extra lenses)
Packaging, weight	6.2 kg (13.7 lb.)
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)
EAN-13	<ul style="list-style-type: none">• Sweden: 7332558012956• Estonia: 4743254003231



FLIR T530 24° + 42°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Shipping information	
UPC-12	845188014643
Country of origin	Sweden and/or Estonia

Supplies and accessories:

- T198495; Pouch
- T197771ACC; Bluetooth Headset
- T911706ACC; Car adapter 12 V
- T199588; Lens 14° + case
- T199590; Lens 42° + case
- T199589; Lens 24° + case
- T911705ACC; USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m
- T911632ACC; USB Type-C to HDMI adapter, standard specification UH311
- T911631ACC; USB 2.0 A to USB Type-C cable, 0.9 m
- T911630ACC; Power supply for camera, 15 W/3 A
- T911633ACC; Power supply for battery charger
- T199610; Battery charger
- T199300ACC; Battery
- T199601; Hand strap and neck strap
- T199347ACC; Hard transport case
- T199609; Macro mode 71/103 µm for 24°
- T199616; High temperature option, +300 to +1200°C
- T198583; FLIR Tools+ (download card incl. license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Imaging and optical data	
Infrared resolution	320 × 240 pixels
UltraMax (super-resolution) ¹	In FLIR Tools
NETD	<ul style="list-style-type: none"> • <30 mK, 42° @ +30°C (+86°F) • <40 mK, 24° @ +30°C (+86°F) • <50 mK, 14° @ +30°C (+86°F)
Field of view	<ul style="list-style-type: none"> • 42° × 32° • 24° × 18° • 14° × 10°
Minimum focus distance	<ul style="list-style-type: none"> • 0.15 m (0.49 ft.), 42° • 0.15 m (0.49 ft.), 24° • 1.0 m (3.28 ft.), 14° • Macro mode 103 μm as option to 24°
Minimum focus distance with MSX	<ul style="list-style-type: none"> • 0.65 m (2.13 ft.), 42° • 0.5 m (1.64 ft.), 24° • 1.0 m (3.28 ft.), 14°
Focal length	<ul style="list-style-type: none"> • 10 mm (0.39 in.), 42° • 17 mm (0.67 in.), 24° • 29 mm (1.41 in.), 14°
Spatial resolution (IFOV)	<ul style="list-style-type: none"> • 2.41 mrad/pixel, 42° • 1.31 mrad/pixel, 24° • 0.75 mrad/pixel, 14°
Available extra lenses	<ul style="list-style-type: none"> • 42°
Lens identification	Automatic
f number	<ul style="list-style-type: none"> • 1.1, 42° • 1.3, 24° • 1.5, 14°
Image frequency	30 Hz
Focus	<ul style="list-style-type: none"> • Continuous LDM • One-shot LDM • One-shot contrast • Manual
Field of view match	Yes
Digital zoom	1–4× continuous
Detector data	
Focal plane array/spectral range	Uncooled microbolometer/7.5–14 μm
Detector pitch	17 μm

1. Not supported when using macro.



FLIR T530 24° + 14°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Image presentation	
Resolution	640 × 480 pixels (VGA)
Surface brightness (cd/m ²)	400
Screen size	4 in.
Viewing angle	80°
Color depth (bits)	24
Aspect ratio	4:3
Auto-rotation	Yes
Touchscreen	Optically bonded PCAP
Display technology	IPS
Cover glass material	Dragontrail®
Programmable buttons	2
Viewfinder	No
Image adjustment	<ul style="list-style-type: none">• Automatic• Automatic maximum• Automatic minimum• Manual

Image presentation modes	
Infrared image	Yes
Visual image	Yes
MSX	Yes
Picture in picture	Resizable and movable
Gallery	Yes

Measurement	
Object temperature range	<ul style="list-style-type: none">• -20 to +120°C (-4 to +248°F)• 0–650°C (32–1202°F)• Optional: 300–1200°C (572–2192°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading, for ambient temperature 15–35°C (59–95°F) and object temperature above 0°C (32°F)

Measurement analysis	
Spotmeter	3 in live mode
Area	3 in live mode
Automatic hot/cold detection	Automatic maximum/minimum markers within area
Measurement presets	<ul style="list-style-type: none">• No measurements• Center spot• Hot spot• Cold spot• User preset 1• User preset 2
Difference temperature	Yes
Reference temperature	Yes
Emissivity correction	Yes, variable from 0.01 to 1.0 or selected from materials list
Measurement corrections	Yes
External optics/windows correction	Yes



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Website

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Customer support

<http://support.flir.com>

Measurement analysis	
Screening	0.5°C (0.9°F) accuracy at 37°C (98.6°F) with reference

Alarm	
Color alarm (isotherm)	<ul style="list-style-type: none">• Above• Below• Interval• Condensation (moisture/humidity/dewpoint)• Insulation
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function

Set-up	
Color palettes	<ul style="list-style-type: none">• Iron• Gray• Rainbow• Arctic• Lava• Rainbow HC
Setup commands	Local adaptation of units, language, date, and time formats
Languages	21

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Storage media	Removable memory: SD card
Time lapse (Periodic image storage)	10 seconds to 24 hours (infrared)
Remote control operation	<ul style="list-style-type: none">• Using FLIR Tools (using USB cable)• FLIR Tools Mobile (over Wi-Fi)
Image file format	Standard JPEG, measurement data included. Infrared-only mode

Image annotations	
Voice	60 seconds with built-in microphone and speaker (and via Bluetooth) on still images and video
Text	Text from predefined list or soft keyboard on touchscreen
Visual image annotation	Yes
Image sketch	Yes: on infrared only
Sketch	From touchscreen
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Area measurement information	Yes
GPS	Location data automatically added to every still image and first frame in video from built-in GPS

Video recording in camera	
Radiometric infrared-video recording	RTRR (.csq)
Non-radiometric infrared-video recording	H.264 to memory card
Visual video recording	H.264 to memory card



FLIR T530 24° + 14°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Video streaming	
Radiometric infrared-video streaming (compressed)	Over UVC or RTSP (Wi-Fi)
Non-radiometric video streaming (compressed: IR, MSX, visual, Picture in Picture)	<ul style="list-style-type: none">• H.264 (AVC) over RTSP (Wi-Fi)• MPEG4 over RTSP (Wi-Fi)• MJPEG over UVC and RTSP (Wi-Fi)
Visual video streaming	Yes

Digital camera	
Resolution	5 MP with LED light
Focus	Fixed
Field of view	53° x 41°
Video lamp	Built-in LED light

Laser pointer	
Laser alignment	Position is automatically displayed on the infrared image
Laser distance meter	Activated by dedicated button
Laser	Class 2, 0.05–40 m (0.16–131 ft.) ±1% of measured distance

Data communication interfaces	
Interfaces	USB 2.0, Bluetooth, Wi-Fi, DisplayPort
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
Audio	Microphone and speaker for voice annotation of images
USB	USB Type-C: data transfer/video/power
USB standard	USB 2.0 High Speed
Video out	DisplayPort
Video connector type	DisplayPort over USB Type-C

Power system	
Battery type	Rechargeable Li-ion battery
Battery voltage	3.6 V
Battery operating time	> 4 hours at 25°C (68°F) with typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or two-bay charger
Charging time (using two-bay charger)	3.5 h to 90% capacity, on-screen indicator
Charging temperature	0°C to +45°C (+32°F to +113°F), except for the Korean market: +10°C to +45°C (+50°F to +113°F)
External power operation	AC adapter 90–260 V AC (50/60 Hz) or 12 V from a vehicle (cable with standard plug, optional)
Power management	Automatic shut-down and sleep mode

Environmental data	
Operating temperature range	–15 to +50°C (5–122°F)
Storage temperature range	–40 to +70°C (–40 to 158°F)



FLIR T530 24° + 14°

P/N: 79304-0101

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Environmental data	
Humidity (operating and storage)	IEC 60068-2-30/24 hours, 95% relative humidity, 25–40°C (77–104°F)/2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (immunity)• EN 61000-6-3 (emission)• FCC 47 CFR Part 15 Class B (emission)
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 228• FCC Part 15.249• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25g (IEC 60068-2-27)
Vibration	2g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight (including battery)	1.3 kg (2.9 lb.)
Size (L × W × H)	<ul style="list-style-type: none">• Lens vertical: 140 × 201.3 × 84.1 mm (5.5 × 7.9 × 3.3 in.)• Lens horizontal: 140 × 201.3 × 167.3 mm (5.5 × 7.9 × 6.6 in.)
Battery weight	195 g (6.89 oz.)
Battery size (L × W × H)	59 × 66 × 94 mm (2.3 × 2.6 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	PCABS with TPE, magnesium
Color	Black

Warranty and service	
Warranty	http://www.flir.com/warranty/

Shipping information	
Packaging, type	Cardboard box
Packaging, contents	<ul style="list-style-type: none">• Extra lens, 14°• Accessory box I:<ul style="list-style-type: none">• SD card (8 GB)• USB 2.0 A to USB Type-C cable, 1.0 m• USB Type-C to HDMI adapter, standard specification UH311• USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m• Power supply for battery charger• Power supply, 15 W/3 A• Printed documentation• Accessory box II:<ul style="list-style-type: none">• Neck strap• Lens cleaning cloth• Lens cap strap• Lanyard strap, battery charger• Infrared camera with lens• Battery (2 ea)• Battery charger• Hard transport case• Lens cap, front• Lens cap, front and rear (only for extra lenses)
Packaging, weight	6.2 kg (13.7 lb.)
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)
EAN-13	<ul style="list-style-type: none">• Sweden: 7332558012949• Estonia: 4743254003224



FLIR T530 24° + 14°

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Website

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Customer support

<http://support.flir.com>

Shipping information	
UPC-12	845188014636
Country of origin	Sweden and/or Estonia

Supplies and accessories:

- T198495; Pouch
- T197771ACC; Bluetooth Headset
- T911706ACC; Car adapter 12 V
- T199588; Lens 14° + case
- T199590; Lens 42° + case
- T199589; Lens 24° + case
- T911705ACC; USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m
- T911632ACC; USB Type-C to HDMI adapter, standard specification UH311
- T911631ACC; USB 2.0 A to USB Type-C cable, 0.9 m
- T911630ACC; Power supply for camera, 15 W/3 A
- T911633ACC; Power supply for battery charger
- T199610; Battery charger
- T199300ACC; Battery
- T199601; Hand strap and neck strap
- T199347ACC; Hard transport case
- T199609; Macro mode 71/103 µm for 24°
- T199616; High temperature option, +300 to +1200°C
- T198583; FLIR Tools+ (download card incl. license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)

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Website

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<http://support.flir.com>



Imaging and optical data	
Infrared resolution	320 × 240 pixels
UltraMax (super-resolution) ¹	In FLIR Tools
NETD	<ul style="list-style-type: none"> • <30 mK, 42° @ +30°C (+86°F) • <40 mK, 24° @ +30°C (+86°F) • <50 mK, 14° @ +30°C (+86°F)
Field of view	<ul style="list-style-type: none"> • 42° × 32° • 24° × 18° • 14° × 10°
Minimum focus distance	<ul style="list-style-type: none"> • 0.15 m (0.49 ft.), 42° • 0.15 m (0.49 ft.), 24° • 1.0 m (3.28 ft.), 14° • Macro mode 103 μm as option to 24°
Minimum focus distance with MSX	<ul style="list-style-type: none"> • 0.65 m (2.13 ft.), 42° • 0.5 m (1.64 ft.), 24° • 1.0 m (3.28 ft.), 14°
Focal length	<ul style="list-style-type: none"> • 10 mm (0.39 in.), 42° • 17 mm (0.67 in.), 24° • 29 mm (1.41 in.), 14°
Spatial resolution (IFOV)	<ul style="list-style-type: none"> • 2.41 mrad/pixel, 42° • 1.31 mrad/pixel, 24° • 0.75 mrad/pixel, 14°
Available extra lenses	<ul style="list-style-type: none"> • 24° • 14°
Lens identification	Automatic
f number	<ul style="list-style-type: none"> • 1.1, 42° • 1.3, 24° • 1.5, 14°
Image frequency	30 Hz
Focus	<ul style="list-style-type: none"> • Continuous LDM • One-shot LDM • One-shot contrast • Manual
Field of view match	Yes
Digital zoom	1–4x continuous
Detector data	
Focal plane array/spectral range	Uncooled microbolometer/7.5–14 μm

1. Not supported when using macro.

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Detector data	
Detector pitch	17 µm

Image presentation	
Resolution	640 × 480 pixels (VGA)
Surface brightness (cd/m ²)	400
Screen size	4 in.
Viewing angle	80°
Color depth (bits)	24
Aspect ratio	4:3
Auto-rotation	Yes
Touchscreen	Optically bonded PCAP
Display technology	IPS
Cover glass material	Dragontrail®
Programmable buttons	2
Viewfinder	No
Image adjustment	<ul style="list-style-type: none"> • Automatic • Automatic maximum • Automatic minimum • Manual

Image presentation modes	
Infrared image	Yes
Visual image	Yes
MSX	Yes
Picture in picture	Resizable and movable
Gallery	Yes

Measurement	
Object temperature range	<ul style="list-style-type: none"> • -20 to +120°C (-4 to +248°F) • 0–650°C (32–1202°F) • Optional: 300–1200°C (572–2192°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading, for ambient temperature 15–35°C (59–95°F) and object temperature above 0°C (32°F)

Measurement analysis	
Spotmeter	3 in live mode
Area	3 in live mode
Automatic hot/cold detection	Automatic maximum/minimum markers within area
Measurement presets	<ul style="list-style-type: none"> • No measurements • Center spot • Hot spot • Cold spot • User preset 1 • User preset 2
Difference temperature	Yes
Reference temperature	Yes
Emissivity correction	Yes, variable from 0.01 to 1.0 or selected from materials list



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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Measurement analysis	
Measurement corrections	Yes
External optics/windows correction	Yes
Screening	0.5°C (0.9°F) accuracy at 37°C (98.6°F) with reference

Alarm	
Color alarm (isotherm)	<ul style="list-style-type: none">• Above• Below• Interval• Condensation (moisture/humidity/dewpoint)• Insulation
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function

Set-up	
Color palettes	<ul style="list-style-type: none">• Iron• Gray• Rainbow• Arctic• Lava• Rainbow HC
Setup commands	Local adaptation of units, language, date, and time formats
Languages	21

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Storage media	Removable memory: SD card
Time lapse (Periodic image storage)	10 seconds to 24 hours (infrared)
Remote control operation	<ul style="list-style-type: none">• Using FLIR Tools (using USB cable)• FLIR Tools Mobile (over Wi-Fi)
Image file format	Standard JPEG, measurement data included. Infrared-only mode

Image annotations	
Voice	60 seconds with built-in microphone and speaker (and via Bluetooth) on still images and video
Text	Text from predefined list or soft keyboard on touchscreen
Visual image annotation	Yes
Image sketch	Yes: on infrared only
Sketch	From touchscreen
METERLINK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Area measurement information	Yes
GPS	Location data automatically added to every still image and first frame in video from built-in GPS

Video recording in camera	
Radiometric infrared-video recording	RTRR (.csq)



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<http://support.flir.com>

Video recording in camera	
Non-radiometric infrared-video recording	H.264 to memory card
Visual video recording	H.264 to memory card

Video streaming	
Radiometric infrared-video streaming (compressed)	Over UVC or RTSP (Wi-Fi)
Non-radiometric video streaming (compressed: IR, MSX, visual, Picture in Picture)	<ul style="list-style-type: none">• H.264 (AVC) over RTSP (Wi-Fi)• MPEG4 over RTSP (Wi-Fi)• MJPEG over UVC and RTSP (Wi-Fi)
Visual video streaming	Yes

Digital camera	
Resolution	5 MP with LED light
Focus	Fixed
Field of view	53° × 41°
Video lamp	Built-in LED light

Laser pointer	
Laser alignment	Position is automatically displayed on the infrared image
Laser distance meter	Activated by dedicated button
Laser	Class 2, 0.05–40 m (0.16–131 ft.) ±1% of measured distance

Data communication interfaces	
Interfaces	USB 2.0, Bluetooth, Wi-Fi, DisplayPort
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
Audio	Microphone and speaker for voice annotation of images
USB	USB Type-C: data transfer/video/power
USB standard	USB 2.0 High Speed
Video out	DisplayPort
Video connector type	DisplayPort over USB Type-C

Power system	
Battery type	Rechargeable Li-ion battery
Battery voltage	3.6 V
Battery operating time	> 4 hours at 25°C (68°F) with typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or two-bay charger
Charging time (using two-bay charger)	3.5 h to 90% capacity, on-screen indicator
Charging temperature	0°C to +45°C (+32°F to +113°F), except for the Korean market: +10°C to +45°C (+50°F to +113°F)
External power operation	AC adapter 90–260 V AC (50/60 Hz) or 12 V from a vehicle (cable with standard plug, optional)
Power management	Automatic shut-down and sleep mode



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Website

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Customer support

<http://support.flir.com>

Environmental data	
Operating temperature range	-15 to +50°C (5–122°F)
Storage temperature range	-40 to +70°C (-40 to 158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 hours, 95% relative humidity, 25–40°C (77–104°F)/2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (immunity)• EN 61000-6-3 (emission)• FCC 47 CFR Part 15 Class B (emission)
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 228• FCC Part 15.249• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25g (IEC 60068-2-27)
Vibration	2g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight (including battery)	1.3 kg (2.9 lb.)
Size (L × W × H)	<ul style="list-style-type: none">• Lens vertical: 140 × 201.3 × 84.1 mm (5.5 × 7.9 × 3.3 in.)• Lens horizontal: 140 × 201.3 × 167.3 mm (5.5 × 7.9 × 6.6 in.)
Battery weight	195 g (6.89 oz.)
Battery size (L × W × H)	59 × 66 × 94 mm (2.3 × 2.6 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	PCABS with TPE, magnesium
Color	Black

Warranty and service	
Warranty	http://www.flir.com/warranty/

Shipping information	
Packaging, type	Cardboard box
Packaging, contents	<ul style="list-style-type: none">• Accessory box I:<ul style="list-style-type: none">• SD card (8 GB)• USB 2.0 A to USB Type-C cable, 1.0 m• USB Type-C to HDMI adapter, standard specification UH311• USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m• Power supply for battery charger• Power supply, 15 W/3 A• Printed documentation• Accessory box II:<ul style="list-style-type: none">• Neck strap• Lens cleaning cloth• Lens cap strap• Lanyard strap, battery charger• Infrared camera with lens• Battery (2 ea)• Battery charger• Hard transport case• Lens cap, front• Lens cap, front and rear (only for extra lenses)
Packaging, weight	5.8 kg (12.8 lb.)
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)



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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Shipping information	
EAN-13	<ul style="list-style-type: none">Sweden: 7332558012932Estonia: 4743254003217
UPC-12	845188014629
Country of origin	Sweden and/or Estonia

Supplies and accessories:

- T198495; Pouch
- T197771ACC; Bluetooth Headset
- T911706ACC; Car adapter 12 V
- T199588; Lens 14° + case
- T199590; Lens 42° + case
- T199589; Lens 24° + case
- T911705ACC; USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m
- T911632ACC; USB Type-C to HDMI adapter, standard specification UH311
- T911631ACC; USB 2.0 A to USB Type-C cable, 0.9 m
- T911630ACC; Power supply for camera, 15 W/3 A
- T911633ACC; Power supply for battery charger
- T199610; Battery charger
- T199300ACC; Battery
- T199601; Hand strap and neck strap
- T199347ACC; Hard transport case
- T199609; Macro mode 71/103 µm for 24°
- T199616; High temperature option, +300 to +1200°C
- T198583; FLIR Tools+ (download card incl. license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Imaging and optical data	
Infrared resolution	320 × 240 pixels
UltraMax (super-resolution) ¹	In FLIR Tools
NETD	<ul style="list-style-type: none"> <30 mK, 42° @ +30°C (+86°F) <40 mK, 24° @ +30°C (+86°F) <50 mK, 14° @ +30°C (+86°F)
Field of view	<ul style="list-style-type: none"> 42° × 32° 24° × 18° 14° × 10°
Minimum focus distance	<ul style="list-style-type: none"> 0.15 m (0.49 ft.), 42° 0.15 m (0.49 ft.), 24° 1.0 m (3.28 ft.), 14° Macro mode 103 μm as option to 24°
Minimum focus distance with MSX	<ul style="list-style-type: none"> 0.65 m (2.13 ft.), 42° 0.5 m (1.64 ft.), 24° 1.0 m (3.28 ft.), 14°
Focal length	<ul style="list-style-type: none"> 10 mm (0.39 in.), 42° 17 mm (0.67 in.), 24° 29 mm (1.41 in.), 14°
Spatial resolution (IFOV)	<ul style="list-style-type: none"> 2.41 mrad/pixel, 42° 1.31 mrad/pixel, 24° 0.75 mrad/pixel, 14°
Available extra lenses	<ul style="list-style-type: none"> 24°
Lens identification	Automatic
f number	<ul style="list-style-type: none"> 1.1, 42° 1.3, 24° 1.5, 14°
Image frequency	30 Hz
Focus	<ul style="list-style-type: none"> Continuous LDM One-shot LDM One-shot contrast Manual
Field of view match	Yes
Digital zoom	1–4× continuous
Detector data	
Focal plane array/spectral range	Uncooled microbolometer/7.5–14 μm
Detector pitch	17 μm

1. Not supported when using macro.



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Image presentation	
Resolution	640 × 480 pixels (VGA)
Surface brightness (cd/m ²)	400
Screen size	4 in.
Viewing angle	80°
Color depth (bits)	24
Aspect ratio	4:3
Auto-rotation	Yes
Touchscreen	Optically bonded PCAP
Display technology	IPS
Cover glass material	Dragontrail®
Programmable buttons	2
Viewfinder	No
Image adjustment	<ul style="list-style-type: none">• Automatic• Automatic maximum• Automatic minimum• Manual

Image presentation modes	
Infrared image	Yes
Visual image	Yes
MSX	Yes
Picture in picture	Resizable and movable
Gallery	Yes

Measurement	
Object temperature range	<ul style="list-style-type: none">• -20 to +120°C (-4 to +248°F)• 0–650°C (32–1202°F)• Optional: 300–1200°C (572–2192°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading, for ambient temperature 15–35°C (59–95°F) and object temperature above 0°C (32°F)

Measurement analysis	
Spotmeter	3 in live mode
Area	3 in live mode
Automatic hot/cold detection	Automatic maximum/minimum markers within area
Measurement presets	<ul style="list-style-type: none">• No measurements• Center spot• Hot spot• Cold spot• User preset 1• User preset 2
Difference temperature	Yes
Reference temperature	Yes
Emissivity correction	Yes, variable from 0.01 to 1.0 or selected from materials list
Measurement corrections	Yes
External optics/windows correction	Yes



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Customer support

<http://support.flir.com>

Measurement analysis	
Screening	0.5°C (0.9°F) accuracy at 37°C (98.6°F) with reference

Alarm	
Color alarm (isotherm)	<ul style="list-style-type: none"> Above Below Interval Condensation (moisture/humidity/dewpoint) Insulation
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function

Set-up	
Color palettes	<ul style="list-style-type: none"> Iron Gray Rainbow Arctic Lava Rainbow HC
Setup commands	Local adaptation of units, language, date, and time formats
Languages	21

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Storage media	Removable memory: SD card
Time lapse (Periodic image storage)	10 seconds to 24 hours (infrared)
Remote control operation	<ul style="list-style-type: none"> Using FLIR Tools (using USB cable) FLIR Tools Mobile (over Wi-Fi)
Image file format	Standard JPEG, measurement data included. Infrared-only mode

Image annotations	
Voice	60 seconds with built-in microphone and speaker (and via Bluetooth) on still images and video
Text	Text from predefined list or soft keyboard on touchscreen
Visual image annotation	Yes
Image sketch	Yes: on infrared only
Sketch	From touchscreen
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Area measurement information	Yes
GPS	Location data automatically added to every still image and first frame in video from built-in GPS

Video recording in camera	
Radiometric infrared-video recording	RTRR (.csq)
Non-radiometric infrared-video recording	H.264 to memory card
Visual video recording	H.264 to memory card



FLIR T530 42° + 14°

P/N: 79307-0101

Revision

46299

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2017-11-13 16:43 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Video streaming	
Radiometric infrared-video streaming (compressed)	Over UVC or RTSP (Wi-Fi)
Non-radiometric video streaming (compressed: IR, MSX, visual, Picture in Picture)	<ul style="list-style-type: none">• H.264 (AVC) over RTSP (Wi-Fi)• MPEG4 over RTSP (Wi-Fi)• MJPEG over UVC and RTSP (Wi-Fi)
Visual video streaming	Yes

Digital camera	
Resolution	5 MP with LED light
Focus	Fixed
Field of view	53° x 41°
Video lamp	Built-in LED light

Laser pointer	
Laser alignment	Position is automatically displayed on the infrared image
Laser distance meter	Activated by dedicated button
Laser	Class 2, 0.05–40 m (0.16–131 ft.) ±1% of measured distance

Data communication interfaces	
Interfaces	USB 2.0, Bluetooth, Wi-Fi, DisplayPort
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
Audio	Microphone and speaker for voice annotation of images
USB	USB Type-C: data transfer/video/power
USB standard	USB 2.0 High Speed
Video out	DisplayPort
Video connector type	DisplayPort over USB Type-C

Power system	
Battery type	Rechargeable Li-ion battery
Battery voltage	3.6 V
Battery operating time	> 4 hours at 25°C (68°F) with typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or two-bay charger
Charging time (using two-bay charger)	3.5 h to 90% capacity, on-screen indicator
Charging temperature	0°C to +45°C (+32°F to +113°F), except for the Korean market: +10°C to +45°C (+50°F to +113°F)
External power operation	AC adapter 90–260 V AC (50/60 Hz) or 12 V from a vehicle (cable with standard plug, optional)
Power management	Automatic shut-down and sleep mode

Environmental data	
Operating temperature range	–15 to +50°C (5–122°F)
Storage temperature range	–40 to +70°C (–40 to 158°F)



FLIR T530 42° + 14°

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Website

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Customer support

<http://support.flir.com>

Environmental data	
Humidity (operating and storage)	IEC 60068-2-30/24 hours, 95% relative humidity, 25–40°C (77–104°F)/2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (immunity)• EN 61000-6-3 (emission)• FCC 47 CFR Part 15 Class B (emission)
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 228• FCC Part 15.249• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25g (IEC 60068-2-27)
Vibration	2g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight (including battery)	1.3 kg (2.9 lb.)
Size (L × W × H)	<ul style="list-style-type: none">• Lens vertical: 140 × 201.3 × 84.1 mm (5.5 × 7.9 × 3.3 in.)• Lens horizontal: 140 × 201.3 × 167.3 mm (5.5 × 7.9 × 6.6 in.)
Battery weight	195 g (6.89 oz.)
Battery size (L × W × H)	59 × 66 × 94 mm (2.3 × 2.6 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	PCABS with TPE, magnesium
Color	Black

Warranty and service	
Warranty	http://www.flir.com/warranty/

Shipping information	
Packaging, type	Cardboard box
Packaging, contents	<ul style="list-style-type: none">• Extra lens, 14°• Accessory box I:<ul style="list-style-type: none">• SD card (8 GB)• USB 2.0 A to USB Type-C cable, 1.0 m• USB Type-C to HDMI adapter, standard specification UH311• USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m• Power supply for battery charger• Power supply, 15 W/3 A• Printed documentation• Accessory box II:<ul style="list-style-type: none">• Neck strap• Lens cleaning cloth• Lens cap strap• Lanyard strap, battery charger• Infrared camera with lens• Battery (2 ea)• Battery charger• Hard transport case• Lens cap, front• Lens cap, front and rear (only for extra lenses)
Packaging, weight	
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)
EAN-13	4743254003255
UPC-12	845188014711



FLIR T530 42° + 14°

P/N: 79307-0101

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Shipping information	
Country of origin	Sweden and/or Estonia

Supplies and accessories:

- T198495; Pouch
- T197771ACC; Bluetooth Headset
- T911706ACC; Car adapter 12 V
- T199588; Lens 14° + case
- T199590; Lens 42° + case
- T199589; Lens 24° + case
- T911705ACC; USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m
- T911632ACC; USB Type-C to HDMI adapter, standard specification UH311
- T911631ACC; USB 2.0 A to USB Type-C cable, 0.9 m
- T911630ACC; Power supply for camera, 15 W/3 A
- T911633ACC; Power supply for battery charger
- T199610; Battery charger
- T199300ACC; Battery
- T199601; Hand strap and neck strap
- T199347ACC; Hard transport case
- T199609; Macro mode 71/103 µm for 24°
- T199616; High temperature option, +300 to +1200°C
- T198583; FLIR Tools+ (download card incl. license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Imaging and optical data	
Infrared resolution	464 × 348 pixels
UltraMax (super-resolution) ¹	In FLIR Tools
NETD	<ul style="list-style-type: none"> • <30 mK, 42° @ +30°C (+86°F) • <40 mK, 24° @ +30°C (+86°F) • <50 mK, 14° @ +30°C (+86°F)
Field of view	<ul style="list-style-type: none"> • 42° × 32° • 24° × 18° • 14° × 10°
Minimum focus distance	<ul style="list-style-type: none"> • 0.15 m (0.49 ft.), 42° • 0.15 m (0.49 ft.), 24° • 1.0 m (3.28 ft.), 14° • Macro mode 71 μm as option to 24°
Minimum focus distance with MSX	<ul style="list-style-type: none"> • 0.65 m (2.13 ft.), 42° • 0.5 m (1.64 ft.), 24° • 1.0 m (3.28 ft.), 14°
Focal length	<ul style="list-style-type: none"> • 10 mm (0.39 in.), 42° • 17 mm (0.67 in.), 24° • 29 mm (1.41 in.), 14°
Spatial resolution (IFOV)	<ul style="list-style-type: none"> • 1.66 mrad/pixel, 42° • 0.90 mrad/pixel, 24° • 0.52 mrad/pixel, 14°
Available extra lenses	<ul style="list-style-type: none"> • 42° • 24°
Lens identification	Automatic
f number	<ul style="list-style-type: none"> • 1.1, 42° • 1.3, 24° • 1.5, 14°
Image frequency	30 Hz
Focus	<ul style="list-style-type: none"> • Continuous LDM • One-shot LDM • One-shot contrast • Manual
Field of view match	Yes
Digital zoom	1–6× continuous
Detector data	
Focal plane array/spectral range	Uncooled microbolometer/7.5–14 μm

1. Not supported when using macro.



FLIR T540 14°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Detector data	
Detector pitch	17 µm

Image presentation	
Resolution	640 × 480 pixels (VGA)
Surface brightness (cd/m ²)	400
Screen size	4 in.
Viewing angle	80°
Color depth (bits)	24
Aspect ratio	4:3
Auto-rotation	Yes
Touchscreen	Optically bonded PCAP
Display technology	IPS
Cover glass material	Dragontrail®
Programmable buttons	2
Viewfinder	No
Image adjustment	<ul style="list-style-type: none"> • Automatic • Automatic maximum • Automatic minimum • Manual

Image presentation modes	
Infrared image	Yes
Visual image	Yes
MSX	Yes
Picture in picture	Resizable and movable
Gallery	Yes

Measurement		
Camera temperature range	Object temperature range	Accuracy — for ambient temperature +15 to +35°C (+59 to +95°F)
-20 to +120°C (-4 to +248°F)	-20 to +0°C (-4 to +32°F)	±2°C (±3.6°F)
	0 to +100°C (+32 to +212°F)	±2°C (±3.6°F)
	+100 to +120°C (+212 to +248°F)	±2%
0 to +650°C (+32 to +1202°F)	0 to +100°C (+32 to +212°F)	±2°C (±3.6°F)
	+100 to +650°C (+212 to +1202°F)	±2%
+300 to +1500°C (+572 to +2732°F)	+300 to +1500°C (+572 to +2732°F)	±2%

Measurement analysis	
Spotmeter	3 in live mode
Area	3 in live mode
Automatic hot/cold detection	Automatic maximum/minimum markers within area

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Measurement analysis	
Measurement presets	<ul style="list-style-type: none"> No measurements Center spot Hot spot Cold spot User preset 1 User preset 2
Difference temperature	Yes
Reference temperature	Yes
Emissivity correction	Yes, variable from 0.01 to 1.0 or selected from materials list
Measurement corrections	Yes
External optics/windows correction	Yes
Screening	0.5°C (0.9°F) accuracy at 37°C (98.6°F) with reference

Alarm	
Color alarm (isotherm)	<ul style="list-style-type: none"> Above Below Interval Condensation (moisture/humidity/dewpoint) Insulation
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function

Set-up	
Color palettes	<ul style="list-style-type: none"> Iron Gray Rainbow Arctic Lava Rainbow HC
Setup commands	Local adaptation of units, language, date, and time formats
Languages	21

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Storage media	Removable memory: SD card
Time lapse (Periodic image storage)	10 seconds to 24 hours (infrared)
Remote control operation	<ul style="list-style-type: none"> Using FLIR Tools (using USB cable) FLIR Tools Mobile (over Wi-Fi)
Image file format	Standard JPEG, measurement data included. Infrared-only mode

Image annotations	
Voice	60 seconds with built-in microphone and speaker (and via Bluetooth) on still images and video
Text	Text from predefined list or soft keyboard on touchscreen
Visual image annotation	Yes
Image sketch	Yes: on infrared only
Sketch	From touchscreen



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Website

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Customer support

<http://support.flir.com>

Image annotations	
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Area measurement information	Yes
GPS	Location data automatically added to every still image and first frame in video from built-in GPS

Video recording in camera	
Radiometric infrared-video recording	RTRR (.csq)
Non-radiometric infrared-video recording	H.264 to memory card
Visual video recording	H.264 to memory card

Video streaming	
Radiometric infrared-video streaming (compressed)	Over UVC or RTSP (Wi-Fi)
Non-radiometric video streaming (compressed: IR, MSX, visual, Picture in Picture)	<ul style="list-style-type: none">• H.264 (AVC) over RTSP (Wi-Fi)• MPEG4 over RTSP (Wi-Fi)• MJPEG over UVC and RTSP (Wi-Fi)
Visual video streaming	Yes

Digital camera	
Resolution	5 MP with LED light
Focus	Fixed
Field of view	53° × 41°
Video lamp	Built-in LED light

Laser pointer	
Laser alignment	Position is automatically displayed on the infrared image
Laser distance meter	Activated by dedicated button
Laser	Class 2, 0.05–40 m (0.16–131 ft.) ±1% of measured distance

Data communication interfaces	
Interfaces	USB 2.0, Bluetooth, Wi-Fi, DisplayPort
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
Audio	Microphone and speaker for voice annotation of images
USB	USB Type-C: data transfer/video/power
USB standard	USB 2.0 High Speed
Video out	DisplayPort
Video connector type	DisplayPort over USB Type-C

Power system	
Battery type	Rechargeable Li-ion battery
Battery voltage	3.6 V
Battery operating time	> 4 hours at 25°C (68°F) with typical use



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Website

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Customer support

<http://support.flir.com>

Power system	
Charging system	In camera (AC adapter or 12 V from a vehicle) or two-bay charger
Charging time (using two-bay charger)	3.5 h to 90% capacity, on-screen indicator
Charging temperature	0°C to +45°C (+32°F to +113°F), except for the Korean market: +10°C to +45°C (+50°F to +113°F)
External power operation	AC adapter 90–260 V AC (50/60 Hz) or 12 V from a vehicle (cable with standard plug, optional)
Power management	Automatic shut-down and sleep mode

Environmental data	
Operating temperature range	–15 to +50°C (5–122°F)
Storage temperature range	–40 to +70°C (–40 to 158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 hours, 95% relative humidity, 25–40°C (77–104°F)/2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (immunity)• EN 61000-6-3 (emission)• FCC 47 CFR Part 15 Class B (emission)
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 228• FCC Part 15.249• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25g (IEC 60068-2-27)
Vibration	2g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight (including battery)	1.3 kg (2.9 lb.)
Size (L × W × H)	<ul style="list-style-type: none">• Lens vertical: 140 × 201.3 × 84.1 mm (5.5 × 7.9 × 3.3 in.)• Lens horizontal: 140 × 201.3 × 167.3 mm (5.5 × 7.9 × 6.6 in.)
Battery weight	195 g (6.89 oz.)
Battery size (L × W × H)	59 × 66 × 94 mm (2.3 × 2.6 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	PCABS with TPE, magnesium
Color	Black

Warranty and service	
Warranty	http://www.flir.com/warranty/

Shipping information	
Packaging, type	Cardboard box



FLIR T540 14°

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Website

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Customer support

<http://support.flir.com>

Shipping information	
Packaging, contents	<ul style="list-style-type: none">Accessory box I:<ul style="list-style-type: none">SD card (8 GB)USB 2.0 A to USB Type-C cable, 1.0 mUSB Type-C to HDMI adapter, standard specification UH311USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 mPower supply for battery chargerPower supply, 15 W/3 APrinted documentationAccessory box II:<ul style="list-style-type: none">Neck strapLens cleaning clothLens cap strapLanyard strap, battery chargerInfrared camera with lensBattery (2 ea)Battery chargerHard transport caseLens cap, frontLens cap, front and rear (only for extra lenses)
Packaging, weight	5.8 kg (12.8 lb.)
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)
EAN-13	<ul style="list-style-type: none">Sweden: 7332558014707Estonia: 4743254003859
UPC-12	845188016807
Country of origin	Sweden and/or Estonia

Supplies and accessories:

- T198495; Pouch
- T197771ACC; Bluetooth Headset
- T911706ACC; Car adapter 12 V
- T199588; Lens 14° + case
- T199590; Lens 42° + case
- T199589; Lens 24° + case
- T911705ACC; USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m
- T911632ACC; USB Type-C to HDMI adapter, standard specification UH311
- T911631ACC; USB 2.0 A to USB Type-C cable, 0.9 m
- T911630ACC; Power supply for camera, 15 W/3 A
- T911633ACC; Power supply for battery charger
- T199610; Battery charger
- T199300ACC; Battery
- T199601; Hand strap and neck strap
- T199347ACC; Hard transport case
- T199609; Macro mode 71/103 μm for 24°
- T198583; FLIR Tools+ (download card incl. license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Imaging and optical data	
Infrared resolution	464 × 348 pixels
UltraMax (super-resolution) ¹	In FLIR Tools
NETD	<ul style="list-style-type: none"> • <30 mK, 42° @ +30°C (+86°F) • <40 mK, 24° @ +30°C (+86°F) • <50 mK, 14° @ +30°C (+86°F)
Field of view	<ul style="list-style-type: none"> • 42° × 32° • 24° × 18° • 14° × 10°
Minimum focus distance	<ul style="list-style-type: none"> • 0.15 m (0.49 ft.), 42° • 0.15 m (0.49 ft.), 24° • 1.0 m (3.28 ft.), 14° • Macro mode 71 μm as option to 24°
Minimum focus distance with MSX	<ul style="list-style-type: none"> • 0.65 m (2.13 ft.), 42° • 0.5 m (1.64 ft.), 24° • 1.0 m (3.28 ft.), 14°
Focal length	<ul style="list-style-type: none"> • 10 mm (0.39 in.), 42° • 17 mm (0.67 in.), 24° • 29 mm (1.41 in.), 14°
Spatial resolution (IFOV)	<ul style="list-style-type: none"> • 1.66 mrad/pixel, 42° • 0.90 mrad/pixel, 24° • 0.52 mrad/pixel, 14°
Available extra lenses	<ul style="list-style-type: none"> • 42° • 14°
Lens identification	Automatic
f number	<ul style="list-style-type: none"> • 1.1, 42° • 1.3, 24° • 1.5, 14°
Image frequency	30 Hz
Focus	<ul style="list-style-type: none"> • Continuous LDM • One-shot LDM • One-shot contrast • Manual
Field of view match	Yes
Digital zoom	1–6× continuous
Detector data	
Focal plane array/spectral range	Uncooled microbolometer/7.5–14 μm

1. Not supported when using macro.

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Detector data	
Detector pitch	17 µm

Image presentation	
Resolution	640 × 480 pixels (VGA)
Surface brightness (cd/m ²)	400
Screen size	4 in.
Viewing angle	80°
Color depth (bits)	24
Aspect ratio	4:3
Auto-rotation	Yes
Touchscreen	Optically bonded PCAP
Display technology	IPS
Cover glass material	Dragontrail®
Programmable buttons	2
Viewfinder	No
Image adjustment	<ul style="list-style-type: none"> • Automatic • Automatic maximum • Automatic minimum • Manual

Image presentation modes	
Infrared image	Yes
Visual image	Yes
MSX	Yes
Picture in picture	Resizable and movable
Gallery	Yes

Measurement	
Object temperature range	<ul style="list-style-type: none"> • -20 to +120°C (-4 to +248°F) • 0-650°C (32-1202°F) • 300-1500°C (572-2732°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading, for ambient temperature 15-35°C (59-95°F) and object temperature above 0°C (32°F)

Measurement analysis	
Spotmeter	3 in live mode
Area	3 in live mode
Automatic hot/cold detection	Automatic maximum/minimum markers within area
Measurement presets	<ul style="list-style-type: none"> • No measurements • Center spot • Hot spot • Cold spot • User preset 1 • User preset 2
Difference temperature	Yes
Reference temperature	Yes
Emissivity correction	Yes, variable from 0.01 to 1.0 or selected from materials list



FLIR T540 24°

P/N: 79302-0201

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Measurement analysis	
Measurement corrections	Yes
External optics/windows correction	Yes
Screening	0.5°C (0.9°F) accuracy at 37°C (98.6°F) with reference

Alarm	
Color alarm (isotherm)	<ul style="list-style-type: none"> • Above • Below • Interval • Condensation (moisture/humidity/dewpoint) • Insulation
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function

Set-up	
Color palettes	<ul style="list-style-type: none"> • Iron • Gray • Rainbow • Arctic • Lava • Rainbow HC
Setup commands	Local adaptation of units, language, date, and time formats
Languages	21

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Storage media	Removable memory: SD card
Time lapse (Periodic image storage)	10 seconds to 24 hours (infrared)
Remote control operation	<ul style="list-style-type: none"> • Using FLIR Tools (using USB cable) • FLIR Tools Mobile (over Wi-Fi)
Image file format	Standard JPEG, measurement data included. Infrared-only mode

Image annotations	
Voice	60 seconds with built-in microphone and speaker (and via Bluetooth) on still images and video
Text	Text from predefined list or soft keyboard on touchscreen
Visual image annotation	Yes
Image sketch	Yes: on infrared only
Sketch	From touchscreen
METERLINK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Area measurement information	Yes
GPS	Location data automatically added to every still image and first frame in video from built-in GPS

Video recording in camera	
Radiometric infrared-video recording	RTRR (.csq)



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Website

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Customer support

<http://support.flir.com>

Video recording in camera	
Non-radiometric infrared-video recording	H.264 to memory card
Visual video recording	H.264 to memory card

Video streaming	
Radiometric infrared-video streaming (compressed)	Over UVC or RTSP (Wi-Fi)
Non-radiometric video streaming (compressed: IR, MSX, visual, Picture in Picture)	<ul style="list-style-type: none"> • H.264 (AVC) over RTSP (Wi-Fi) • MPEG4 over RTSP (Wi-Fi) • MJPEG over UVC and RTSP (Wi-Fi)
Visual video streaming	Yes

Digital camera	
Resolution	5 MP with LED light
Focus	Fixed
Field of view	53° × 41°
Video lamp	Built-in LED light

Laser pointer	
Laser alignment	Position is automatically displayed on the infrared image
Laser distance meter	Activated by dedicated button
Laser	Class 2, 0.05–40 m (0.16–131 ft.) ±1% of measured distance

Data communication interfaces	
Interfaces	USB 2.0, Bluetooth, Wi-Fi, DisplayPort
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
Audio	Microphone and speaker for voice annotation of images
USB	USB Type-C: data transfer/video/power
USB standard	USB 2.0 High Speed
Video out	DisplayPort
Video connector type	DisplayPort over USB Type-C

Power system	
Battery type	Rechargeable Li-ion battery
Battery voltage	3.6 V
Battery operating time	> 4 hours at 25°C (68°F) with typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or two-bay charger
Charging time (using two-bay charger)	3.5 h to 90% capacity, on-screen indicator
Charging temperature	0°C to +45°C (+32°F to +113°F), except for the Korean market: +10°C to +45°C (+50°F to +113°F)
External power operation	AC adapter 90–260 V AC (50/60 Hz) or 12 V from a vehicle (cable with standard plug, optional)
Power management	Automatic shut-down and sleep mode



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Website

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Customer support

<http://support.flir.com>

Environmental data	
Operating temperature range	-15 to +50°C (5–122°F)
Storage temperature range	-40 to +70°C (-40 to 158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 hours, 95% relative humidity, 25–40°C (77–104°F)/2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (immunity)• EN 61000-6-3 (emission)• FCC 47 CFR Part 15 Class B (emission)
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 228• FCC Part 15.249• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25g (IEC 60068-2-27)
Vibration	2g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight (including battery)	1.3 kg (2.9 lb.)
Size (L × W × H)	<ul style="list-style-type: none">• Lens vertical: 140 × 201.3 × 84.1 mm (5.5 × 7.9 × 3.3 in.)• Lens horizontal: 140 × 201.3 × 167.3 mm (5.5 × 7.9 × 6.6 in.)
Battery weight	195 g (6.89 oz.)
Battery size (L × W × H)	59 × 66 × 94 mm (2.3 × 2.6 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	PCABS with TPE, magnesium
Color	Black

Warranty and service	
Warranty	http://www.flir.com/warranty/

Shipping information	
Packaging, type	Cardboard box
Packaging, contents	<ul style="list-style-type: none">• Accessory box I:<ul style="list-style-type: none">• SD card (8 GB)• USB 2.0 A to USB Type-C cable, 1.0 m• USB Type-C to HDMI adapter, standard specification UH311• USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m• Power supply for battery charger• Power supply, 15 W/3 A• Printed documentation• Accessory box II:<ul style="list-style-type: none">• Neck strap• Lens cleaning cloth• Lens cap strap• Lanyard strap, battery charger• Infrared camera with lens• Battery (2 ea)• Battery charger• Hard transport case• Lens cap, front• Lens cap, front and rear (only for extra lenses)
Packaging, weight	5.8 kg (12.8 lb.)
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)



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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Shipping information	
EAN-13	<ul style="list-style-type: none">Sweden: 7332558012970Estonia: 4743254003262
UPC-12	845188014667
Country of origin	Sweden and/or Estonia

Supplies and accessories:

- T198495; Pouch
- T197771ACC; Bluetooth Headset
- T911706ACC; Car adapter 12 V
- T199588; Lens 14° + case
- T199590; Lens 42° + case
- T199589; Lens 24° + case
- T911705ACC; USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m
- T911632ACC; USB Type-C to HDMI adapter, standard specification UH311
- T911631ACC; USB 2.0 A to USB Type-C cable, 0.9 m
- T911630ACC; Power supply for camera, 15 W/3 A
- T911633ACC; Power supply for battery charger
- T199610; Battery charger
- T199300ACC; Battery
- T199601; Hand strap and neck strap
- T199347ACC; Hard transport case
- T199609; Macro mode 71/103 µm for 24°
- T198583; FLIR Tools+ (download card incl. license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)

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Website

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Imaging and optical data	
Infrared resolution	464 × 348 pixels
UltraMax (super-resolution) ¹	In FLIR Tools
NETD	<ul style="list-style-type: none"> • <30 mK, 42° @ +30°C (+86°F) • <40 mK, 24° @ +30°C (+86°F) • <50 mK, 14° @ +30°C (+86°F)
Field of view	<ul style="list-style-type: none"> • 42° × 32° • 24° × 18° • 14° × 10°
Minimum focus distance	<ul style="list-style-type: none"> • 0.15 m (0.49 ft.), 42° • 0.15 m (0.49 ft.), 24° • 1.0 m (3.28 ft.), 14° • Macro mode 71 μm as option to 24°
Minimum focus distance with MSX	<ul style="list-style-type: none"> • 0.65 m (2.13 ft.), 42° • 0.5 m (1.64 ft.), 24° • 1.0 m (3.28 ft.), 14°
Focal length	<ul style="list-style-type: none"> • 10 mm (0.39 in.), 42° • 17 mm (0.67 in.), 24° • 29 mm (1.41 in.), 14°
Spatial resolution (IFOV)	<ul style="list-style-type: none"> • 1.66 mrad/pixel, 42° • 0.90 mrad/pixel, 24° • 0.52 mrad/pixel, 14°
Available extra lenses	<ul style="list-style-type: none"> • 42°
Lens identification	Automatic
f number	<ul style="list-style-type: none"> • 1.1, 42° • 1.3, 24° • 1.5, 14°
Image frequency	30 Hz
Focus	<ul style="list-style-type: none"> • Continuous LDM • One-shot LDM • One-shot contrast • Manual
Field of view match	Yes
Digital zoom	1–6× continuous
Detector data	
Focal plane array/spectral range	Uncooled microbolometer/7.5–14 μm
Detector pitch	17 μm

1. Not supported when using macro.



FLIR T540 24° + 14°

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Website

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Customer support

<http://support.flir.com>

Image presentation	
Resolution	640 × 480 pixels (VGA)
Surface brightness (cd/m ²)	400
Screen size	4 in.
Viewing angle	80°
Color depth (bits)	24
Aspect ratio	4:3
Auto-rotation	Yes
Touchscreen	Optically bonded PCAP
Display technology	IPS
Cover glass material	Dragontrail®
Programmable buttons	2
Viewfinder	No
Image adjustment	<ul style="list-style-type: none">• Automatic• Automatic maximum• Automatic minimum• Manual

Image presentation modes	
Infrared image	Yes
Visual image	Yes
MSX	Yes
Picture in picture	Resizable and movable
Gallery	Yes

Measurement	
Object temperature range	<ul style="list-style-type: none">• -20 to +120°C (-4 to +248°F)• 0–650°C (32–1202°F)• 300–1500°C (572–2732°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading, for ambient temperature 15–35°C (59–95°F) and object temperature above 0°C (32°F)

Measurement analysis	
Spotmeter	3 in live mode
Area	3 in live mode
Automatic hot/cold detection	Automatic maximum/minimum markers within area
Measurement presets	<ul style="list-style-type: none">• No measurements• Center spot• Hot spot• Cold spot• User preset 1• User preset 2
Difference temperature	Yes
Reference temperature	Yes
Emissivity correction	Yes, variable from 0.01 to 1.0 or selected from materials list
Measurement corrections	Yes
External optics/windows correction	Yes



FLIR T540 24° + 14°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Measurement analysis	
Screening	0.5°C (0.9°F) accuracy at 37°C (98.6°F) with reference

Alarm	
Color alarm (isotherm)	<ul style="list-style-type: none">• Above• Below• Interval• Condensation (moisture/humidity/dewpoint)• Insulation
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function

Set-up	
Color palettes	<ul style="list-style-type: none">• Iron• Gray• Rainbow• Arctic• Lava• Rainbow HC
Setup commands	Local adaptation of units, language, date, and time formats
Languages	21

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Storage media	Removable memory: SD card
Time lapse (Periodic image storage)	10 seconds to 24 hours (infrared)
Remote control operation	<ul style="list-style-type: none">• Using FLIR Tools (using USB cable)• FLIR Tools Mobile (over Wi-Fi)
Image file format	Standard JPEG, measurement data included. Infrared-only mode

Image annotations	
Voice	60 seconds with built-in microphone and speaker (and via Bluetooth) on still images and video
Text	Text from predefined list or soft keyboard on touchscreen
Visual image annotation	Yes
Image sketch	Yes: on infrared only
Sketch	From touchscreen
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Area measurement information	Yes
GPS	Location data automatically added to every still image and first frame in video from built-in GPS

Video recording in camera	
Radiometric infrared-video recording	RTRR (.csq)
Non-radiometric infrared-video recording	H.264 to memory card
Visual video recording	H.264 to memory card



FLIR T540 24° + 14°

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Website

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Customer support

<http://support.flir.com>

Video streaming	
Radiometric infrared-video streaming (compressed)	Over UVC or RTSP (Wi-Fi)
Non-radiometric video streaming (compressed: IR, MSX, visual, Picture in Picture)	<ul style="list-style-type: none">• H.264 (AVC) over RTSP (Wi-Fi)• MPEG4 over RTSP (Wi-Fi)• MJPEG over UVC and RTSP (Wi-Fi)
Visual video streaming	Yes

Digital camera	
Resolution	5 MP with LED light
Focus	Fixed
Field of view	53° x 41°
Video lamp	Built-in LED light

Laser pointer	
Laser alignment	Position is automatically displayed on the infrared image
Laser distance meter	Activated by dedicated button
Laser	Class 2, 0.05–40 m (0.16–131 ft.) ±1% of measured distance

Data communication interfaces	
Interfaces	USB 2.0, Bluetooth, Wi-Fi, DisplayPort
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
Audio	Microphone and speaker for voice annotation of images
USB	USB Type-C: data transfer/video/power
USB standard	USB 2.0 High Speed
Video out	DisplayPort
Video connector type	DisplayPort over USB Type-C

Power system	
Battery type	Rechargeable Li-ion battery
Battery voltage	3.6 V
Battery operating time	> 4 hours at 25°C (68°F) with typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or two-bay charger
Charging time (using two-bay charger)	3.5 h to 90% capacity, on-screen indicator
Charging temperature	0°C to +45°C (+32°F to +113°F), except for the Korean market: +10°C to +45°C (+50°F to +113°F)
External power operation	AC adapter 90–260 V AC (50/60 Hz) or 12 V from a vehicle (cable with standard plug, optional)
Power management	Automatic shut-down and sleep mode

Environmental data	
Operating temperature range	–15 to +50°C (5–122°F)
Storage temperature range	–40 to +70°C (–40 to 158°F)



FLIR T540 24° + 14°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Environmental data	
Humidity (operating and storage)	IEC 60068-2-30/24 hours, 95% relative humidity, 25–40°C (77–104°F)/2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (immunity)• EN 61000-6-3 (emission)• FCC 47 CFR Part 15 Class B (emission)
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 228• FCC Part 15.249• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25g (IEC 60068-2-27)
Vibration	2g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight (including battery)	1.3 kg (2.9 lb.)
Size (L × W × H)	<ul style="list-style-type: none">• Lens vertical: 140 × 201.3 × 84.1 mm (5.5 × 7.9 × 3.3 in.)• Lens horizontal: 140 × 201.3 × 167.3 mm (5.5 × 7.9 × 6.6 in.)
Battery weight	195 g (6.89 oz.)
Battery size (L × W × H)	59 × 66 × 94 mm (2.3 × 2.6 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	PCABS with TPE, magnesium
Color	Black

Warranty and service	
Warranty	http://www.flir.com/warranty/

Shipping information	
Packaging, type	Cardboard box
Packaging, contents	<ul style="list-style-type: none">• Extra lens, 14°• Accessory box I:<ul style="list-style-type: none">• SD card (8 GB)• USB 2.0 A to USB Type-C cable, 1.0 m• USB Type-C to HDMI adapter, standard specification UH311• USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m• Power supply for battery charger• Power supply, 15 W/3 A• Printed documentation• Accessory box II:<ul style="list-style-type: none">• Neck strap• Lens cleaning cloth• Lens cap strap• Lanyard strap, battery charger• Infrared camera with lens• Battery (2 ea)• Battery charger• Hard transport case• Lens cap, front• Lens cap, front and rear (only for extra lenses)
Packaging, weight	6.2 kg (13.7 lb.)
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)
EAN-13	<ul style="list-style-type: none">• Sweden: 7332558012994• Estonia: 4743254003286



FLIR T540 24° + 14°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Shipping information	
UPC-12	845188014681
Country of origin	Sweden and/or Estonia

Supplies and accessories:

- T198495; Pouch
- T197771ACC; Bluetooth Headset
- T911706ACC; Car adapter 12 V
- T199588; Lens 14° + case
- T199590; Lens 42° + case
- T199589; Lens 24° + case
- T911705ACC; USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m
- T911632ACC; USB Type-C to HDMI adapter, standard specification UH311
- T911631ACC; USB 2.0 A to USB Type-C cable, 0.9 m
- T911630ACC; Power supply for camera, 15 W/3 A
- T911633ACC; Power supply for battery charger
- T199610; Battery charger
- T199300ACC; Battery
- T199601; Hand strap and neck strap
- T199347ACC; Hard transport case
- T199609; Macro mode 71/103 µm for 24°
- T198583; FLIR Tools+ (download card incl. license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Imaging and optical data	
Infrared resolution	464 × 348 pixels
UltraMax (super-resolution) ¹	In FLIR Tools
NETD	<ul style="list-style-type: none"> • <30 mK, 42° @ +30°C (+86°F) • <40 mK, 24° @ +30°C (+86°F) • <50 mK, 14° @ +30°C (+86°F)
Field of view	<ul style="list-style-type: none"> • 42° × 32° • 24° × 18° • 14° × 10°
Minimum focus distance	<ul style="list-style-type: none"> • 0.15 m (0.49 ft.), 42° • 0.15 m (0.49 ft.), 24° • 1.0 m (3.28 ft.), 14° • Macro mode 71 μm as option to 24°
Minimum focus distance with MSX	<ul style="list-style-type: none"> • 0.65 m (2.13 ft.), 42° • 0.5 m (1.64 ft.), 24° • 1.0 m (3.28 ft.), 14°
Focal length	<ul style="list-style-type: none"> • 10 mm (0.39 in.), 42° • 17 mm (0.67 in.), 24° • 29 mm (1.41 in.), 14°
Spatial resolution (IFOV)	<ul style="list-style-type: none"> • 1.66 mrad/pixel, 42° • 0.90 mrad/pixel, 24° • 0.52 mrad/pixel, 14°
Lens identification	Automatic
f number	<ul style="list-style-type: none"> • 1.1, 42° • 1.3, 24° • 1.5, 14°
Image frequency	30 Hz
Focus	<ul style="list-style-type: none"> • Continuous LDM • One-shot LDM • One-shot contrast • Manual
Field of view match	Yes
Digital zoom	1–6× continuous
Detector data	
Focal plane array/spectral range	Uncooled microbolometer/7.5–14 μm
Detector pitch	17 μm

1. Not supported when using macro.

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Image presentation	
Resolution	640 × 480 pixels (VGA)
Surface brightness (cd/m ²)	400
Screen size	4 in.
Viewing angle	80°
Color depth (bits)	24
Aspect ratio	4:3
Auto-rotation	Yes
Touchscreen	Optically bonded PCAP
Display technology	IPS
Cover glass material	Dragontrail®
Programmable buttons	2
Viewfinder	No
Image adjustment	<ul style="list-style-type: none"> • Automatic • Automatic maximum • Automatic minimum • Manual

Image presentation modes	
Infrared image	Yes
Visual image	Yes
MSX	Yes
Picture in picture	Resizable and movable
Gallery	Yes

Measurement	
Object temperature range	<ul style="list-style-type: none"> • -20 to +120°C (-4 to +248°F) • 0–650°C (32–1202°F) • 300–1500°C (572–2732°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading, for ambient temperature 15–35°C (59–95°F) and object temperature above 0°C (32°F)

Measurement analysis	
Spotmeter	3 in live mode
Area	3 in live mode
Automatic hot/cold detection	Automatic maximum/minimum markers within area
Measurement presets	<ul style="list-style-type: none"> • No measurements • Center spot • Hot spot • Cold spot • User preset 1 • User preset 2
Difference temperature	Yes
Reference temperature	Yes
Emissivity correction	Yes, variable from 0.01 to 1.0 or selected from materials list
Measurement corrections	Yes
External optics/windows correction	Yes



FLIR T540 24° + 14° & 42°

P/N: 79306-0201

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Website

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Customer support

<http://support.flir.com>

Measurement analysis	
Screening	0.5°C (0.9°F) accuracy at 37°C (98.6°F) with reference

Alarm	
Color alarm (isotherm)	<ul style="list-style-type: none"> • Above • Below • Interval • Condensation (moisture/humidity/dewpoint) • Insulation
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function

Set-up	
Color palettes	<ul style="list-style-type: none"> • Iron • Gray • Rainbow • Arctic • Lava • Rainbow HC
Setup commands	Local adaptation of units, language, date, and time formats
Languages	21

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Storage media	Removable memory: SD card
Time lapse (Periodic image storage)	10 seconds to 24 hours (infrared)
Remote control operation	<ul style="list-style-type: none"> • Using FLIR Tools (using USB cable) • FLIR Tools Mobile (over Wi-Fi)
Image file format	Standard JPEG, measurement data included. Infrared-only mode

Image annotations	
Voice	60 seconds with built-in microphone and speaker (and via Bluetooth) on still images and video
Text	Text from predefined list or soft keyboard on touchscreen
Visual image annotation	Yes
Image sketch	Yes: on infrared only
Sketch	From touchscreen
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Area measurement information	Yes
GPS	Location data automatically added to every still image and first frame in video from built-in GPS

Video recording in camera	
Radiometric infrared-video recording	RTRR (.csq)
Non-radiometric infrared-video recording	H.264 to memory card
Visual video recording	H.264 to memory card



FLIR T540 24° + 14° & 42°

P/N: 79306-0201

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Website

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Customer support

<http://support.flir.com>

Video streaming	
Radiometric infrared-video streaming (compressed)	Over UVC or RTSP (Wi-Fi)
Non-radiometric video streaming (compressed: IR, MSX, visual, Picture in Picture)	<ul style="list-style-type: none">• H.264 (AVC) over RTSP (Wi-Fi)• MPEG4 over RTSP (Wi-Fi)• MJPEG over UVC and RTSP (Wi-Fi)
Visual video streaming	Yes

Digital camera	
Resolution	5 MP with LED light
Focus	Fixed
Field of view	53° x 41°
Video lamp	Built-in LED light

Laser pointer	
Laser alignment	Position is automatically displayed on the infrared image
Laser distance meter	Activated by dedicated button
Laser	Class 2, 0.05–40 m (0.16–131 ft.) ±1% of measured distance

Data communication interfaces	
Interfaces	USB 2.0, Bluetooth, Wi-Fi, DisplayPort
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
Audio	Microphone and speaker for voice annotation of images
USB	USB Type-C: data transfer/video/power
USB standard	USB 2.0 High Speed
Video out	DisplayPort
Video connector type	DisplayPort over USB Type-C

Power system	
Battery type	Rechargeable Li-ion battery
Battery voltage	3.6 V
Battery operating time	> 4 hours at 25°C (68°F) with typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or two-bay charger
Charging time (using two-bay charger)	3.5 h to 90% capacity, on-screen indicator
Charging temperature	0°C to +45°C (+32°F to +113°F), except for the Korean market: +10°C to +45°C (+50°F to +113°F)
External power operation	AC adapter 90–260 V AC (50/60 Hz) or 12 V from a vehicle (cable with standard plug, optional)
Power management	Automatic shut-down and sleep mode

Environmental data	
Operating temperature range	–15 to +50°C (5–122°F)
Storage temperature range	–40 to +70°C (–40 to 158°F)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Environmental data	
Humidity (operating and storage)	IEC 60068-2-30/24 hours, 95% relative humidity, 25–40°C (77–104°F)/2 cycles
EMC	<ul style="list-style-type: none"> • ETSI EN 301 489-1 (radio) • ETSI EN 301 489-17 • EN 61000-6-2 (immunity) • EN 61000-6-3 (emission) • FCC 47 CFR Part 15 Class B (emission)
Radio spectrum	<ul style="list-style-type: none"> • ETSI EN 300 228 • FCC Part 15.249 • RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25g (IEC 60068-2-27)
Vibration	2g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight (including battery)	1.3 kg (2.9 lb.)
Size (L × W × H)	<ul style="list-style-type: none"> • Lens vertical: 140 × 201.3 × 84.1 mm (5.5 × 7.9 × 3.3 in.) • Lens horizontal: 140 × 201.3 × 167.3 mm (5.5 × 7.9 × 6.6 in.)
Battery weight	195 g (6.89 oz.)
Battery size (L × W × H)	59 × 66 × 94 mm (2.3 × 2.6 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	PCABS with TPE, magnesium
Color	Black

Warranty and service	
Warranty	http://www.flir.com/warranty/

Shipping information	
Packaging, type	Cardboard box
Packaging, contents	<ul style="list-style-type: none"> • Extra lens, 14° • Extra lens, 42° • Accessory box I: <ul style="list-style-type: none"> • SD card (8 GB) • USB 2.0 A to USB Type-C cable, 1.0 m • USB Type-C to HDMI adapter, standard specification UH311 • USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m • Power supply for battery charger • Power supply, 15 W/3 A • Printed documentation • Accessory box II: <ul style="list-style-type: none"> • Neck strap • Lens cleaning cloth • Lens cap strap • Lanyard strap, battery charger • Infrared camera with lens • Battery (2 ea) • Battery charger • Hard transport case • Lens cap, front • Lens cap, front and rear (only for extra lenses)
Packaging, weight	6.4 kg (14.1 lb.)
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)
EAN-13	<ul style="list-style-type: none"> • Sweden: 7332558013014 • Estonia: 4743254003309



FLIR T540 24° + 14° & 42°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Shipping information	
UPC-12	845188014704
Country of origin	Sweden and/or Estonia

Supplies and accessories:

- T198495; Pouch
- T197771ACC; Bluetooth Headset
- T911706ACC; Car adapter 12 V
- T199588; Lens 14° + case
- T199590; Lens 42° + case
- T199589; Lens 24° + case
- T911705ACC; USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m
- T911632ACC; USB Type-C to HDMI adapter, standard specification UH311
- T911631ACC; USB 2.0 A to USB Type-C cable, 0.9 m
- T911630ACC; Power supply for camera, 15 W/3 A
- T911633ACC; Power supply for battery charger
- T199610; Battery charger
- T199300ACC; Battery
- T199601; Hand strap and neck strap
- T199347ACC; Hard transport case
- T199609; Macro mode 71/103 µm for 24°
- T198583; FLIR Tools+ (download card incl. license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)

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Website

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Customer support

<http://support.flir.com>



Imaging and optical data	
Infrared resolution	464 × 348 pixels
UltraMax (super-resolution) ¹	In FLIR Tools
NETD	<ul style="list-style-type: none"> • <30 mK, 42° @ +30°C (+86°F) • <40 mK, 24° @ +30°C (+86°F) • <50 mK, 14° @ +30°C (+86°F)
Field of view	<ul style="list-style-type: none"> • 42° × 32° • 24° × 18° • 14° × 10°
Minimum focus distance	<ul style="list-style-type: none"> • 0.15 m (0.49 ft.), 42° • 0.15 m (0.49 ft.), 24° • 1.0 m (3.28 ft.), 14° • Macro mode 71 μm as option to 24°
Minimum focus distance with MSX	<ul style="list-style-type: none"> • 0.65 m (2.13 ft.), 42° • 0.5 m (1.64 ft.), 24° • 1.0 m (3.28 ft.), 14°
Focal length	<ul style="list-style-type: none"> • 10 mm (0.39 in.), 42° • 17 mm (0.67 in.), 24° • 29 mm (1.41 in.), 14°
Spatial resolution (IFOV)	<ul style="list-style-type: none"> • 1.66 mrad/pixel, 42° • 0.90 mrad/pixel, 24° • 0.52 mrad/pixel, 14°
Available extra lenses	<ul style="list-style-type: none"> • 14°
Lens identification	Automatic
f number	<ul style="list-style-type: none"> • 1.1, 42° • 1.3, 24° • 1.5, 14°
Image frequency	30 Hz
Focus	<ul style="list-style-type: none"> • Continuous LDM • One-shot LDM • One-shot contrast • Manual
Field of view match	Yes
Digital zoom	1–6× continuous
Detector data	
Focal plane array/spectral range	Uncooled microbolometer/7.5–14 μm
Detector pitch	17 μm

1. Not supported when using macro.



FLIR T540 24° + 42°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Image presentation	
Resolution	640 × 480 pixels (VGA)
Surface brightness (cd/m ²)	400
Screen size	4 in.
Viewing angle	80°
Color depth (bits)	24
Aspect ratio	4:3
Auto-rotation	Yes
Touchscreen	Optically bonded PCAP
Display technology	IPS
Cover glass material	Dragontrail®
Programmable buttons	2
Viewfinder	No
Image adjustment	<ul style="list-style-type: none">• Automatic• Automatic maximum• Automatic minimum• Manual

Image presentation modes	
Infrared image	Yes
Visual image	Yes
MSX	Yes
Picture in picture	Resizable and movable
Gallery	Yes

Measurement	
Object temperature range	<ul style="list-style-type: none">• -20 to +120°C (-4 to +248°F)• 0–650°C (32–1202°F)• 300–1500°C (572–2732°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading, for ambient temperature 15–35°C (59–95°F) and object temperature above 0°C (32°F)

Measurement analysis	
Spotmeter	3 in live mode
Area	3 in live mode
Automatic hot/cold detection	Automatic maximum/minimum markers within area
Measurement presets	<ul style="list-style-type: none">• No measurements• Center spot• Hot spot• Cold spot• User preset 1• User preset 2
Difference temperature	Yes
Reference temperature	Yes
Emissivity correction	Yes, variable from 0.01 to 1.0 or selected from materials list
Measurement corrections	Yes
External optics/windows correction	Yes



FLIR T540 24° + 42°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Measurement analysis	
Screening	0.5°C (0.9°F) accuracy at 37°C (98.6°F) with reference

Alarm	
Color alarm (isotherm)	<ul style="list-style-type: none"> • Above • Below • Interval • Condensation (moisture/humidity/dewpoint) • Insulation
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function

Set-up	
Color palettes	<ul style="list-style-type: none"> • Iron • Gray • Rainbow • Arctic • Lava • Rainbow HC
Setup commands	Local adaptation of units, language, date, and time formats
Languages	21

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Storage media	Removable memory: SD card
Time lapse (Periodic image storage)	10 seconds to 24 hours (infrared)
Remote control operation	<ul style="list-style-type: none"> • Using FLIR Tools (using USB cable) • FLIR Tools Mobile (over Wi-Fi)
Image file format	Standard JPEG, measurement data included. Infrared-only mode

Image annotations	
Voice	60 seconds with built-in microphone and speaker (and via Bluetooth) on still images and video
Text	Text from predefined list or soft keyboard on touchscreen
Visual image annotation	Yes
Image sketch	Yes: on infrared only
Sketch	From touchscreen
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Area measurement information	Yes
GPS	Location data automatically added to every still image and first frame in video from built-in GPS

Video recording in camera	
Radiometric infrared-video recording	RTRR (.csq)
Non-radiometric infrared-video recording	H.264 to memory card
Visual video recording	H.264 to memory card



FLIR T540 24° + 42°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Video streaming	
Radiometric infrared-video streaming (compressed)	Over UVC or RTSP (Wi-Fi)
Non-radiometric video streaming (compressed: IR, MSX, visual, Picture in Picture)	<ul style="list-style-type: none">• H.264 (AVC) over RTSP (Wi-Fi)• MPEG4 over RTSP (Wi-Fi)• MJPEG over UVC and RTSP (Wi-Fi)
Visual video streaming	Yes

Digital camera	
Resolution	5 MP with LED light
Focus	Fixed
Field of view	53° x 41°
Video lamp	Built-in LED light

Laser pointer	
Laser alignment	Position is automatically displayed on the infrared image
Laser distance meter	Activated by dedicated button
Laser	Class 2, 0.05–40 m (0.16–131 ft.) ±1% of measured distance

Data communication interfaces	
Interfaces	USB 2.0, Bluetooth, Wi-Fi, DisplayPort
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
Audio	Microphone and speaker for voice annotation of images
USB	USB Type-C: data transfer/video/power
USB standard	USB 2.0 High Speed
Video out	DisplayPort
Video connector type	DisplayPort over USB Type-C

Power system	
Battery type	Rechargeable Li-ion battery
Battery voltage	3.6 V
Battery operating time	> 4 hours at 25°C (68°F) with typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or two-bay charger
Charging time (using two-bay charger)	3.5 h to 90% capacity, on-screen indicator
Charging temperature	0°C to +45°C (+32°F to +113°F), except for the Korean market: +10°C to +45°C (+50°F to +113°F)
External power operation	AC adapter 90–260 V AC (50/60 Hz) or 12 V from a vehicle (cable with standard plug, optional)
Power management	Automatic shut-down and sleep mode

Environmental data	
Operating temperature range	–15 to +50°C (5–122°F)
Storage temperature range	–40 to +70°C (–40 to 158°F)



FLIR T540 24° + 42°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Environmental data	
Humidity (operating and storage)	IEC 60068-2-30/24 hours, 95% relative humidity, 25–40°C (77–104°F)/2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (immunity)• EN 61000-6-3 (emission)• FCC 47 CFR Part 15 Class B (emission)
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 228• FCC Part 15.249• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25g (IEC 60068-2-27)
Vibration	2g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight (including battery)	1.3 kg (2.9 lb.)
Size (L × W × H)	<ul style="list-style-type: none">• Lens vertical: 140 × 201.3 × 84.1 mm (5.5 × 7.9 × 3.3 in.)• Lens horizontal: 140 × 201.3 × 167.3 mm (5.5 × 7.9 × 6.6 in.)
Battery weight	195 g (6.89 oz.)
Battery size (L × W × H)	59 × 66 × 94 mm (2.3 × 2.6 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	PCABS with TPE, magnesium
Color	Black

Warranty and service	
Warranty	http://www.flir.com/warranty/

Shipping information	
Packaging, type	Cardboard box
Packaging, contents	<ul style="list-style-type: none">• Extra lens, 42°• Accessory box I:<ul style="list-style-type: none">• SD card (8 GB)• USB 2.0 A to USB Type-C cable, 1.0 m• USB Type-C to HDMI adapter, standard specification UH311• USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m• Power supply for battery charger• Power supply, 15 W/3 A• Printed documentation• Accessory box II:<ul style="list-style-type: none">• Neck strap• Lens cleaning cloth• Lens cap strap• Lanyard strap, battery charger• Infrared camera with lens• Battery (2 ea)• Battery charger• Hard transport case• Lens cap, front• Lens cap, front and rear (only for extra lenses)
Packaging, weight	6.2 kg (13.7 lb.)
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)
EAN-13	<ul style="list-style-type: none">• Sweden: 7332558013007• Estonia: 4743254003293



FLIR T540 24° + 42°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Shipping information	
UPC-12	845188014698
Country of origin	Sweden and/or Estonia

Supplies and accessories:

- T198495; Pouch
- T197771ACC; Bluetooth Headset
- T911706ACC; Car adapter 12 V
- T199588; Lens 14° + case
- T199590; Lens 42° + case
- T199589; Lens 24° + case
- T911705ACC; USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m
- T911632ACC; USB Type-C to HDMI adapter, standard specification UH311
- T911631ACC; USB 2.0 A to USB Type-C cable, 0.9 m
- T911630ACC; Power supply for camera, 15 W/3 A
- T911633ACC; Power supply for battery charger
- T199610; Battery charger
- T199300ACC; Battery
- T199601; Hand strap and neck strap
- T199347ACC; Hard transport case
- T199609; Macro mode 71/103 µm for 24°
- T198583; FLIR Tools+ (download card incl. license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Imaging and optical data	
Infrared resolution	464 × 348 pixels
UltraMax (super-resolution) ¹	In FLIR Tools
NETD	<ul style="list-style-type: none"> • <30 mK, 42° @ +30°C (+86°F) • <40 mK, 24° @ +30°C (+86°F) • <50 mK, 14° @ +30°C (+86°F)
Field of view	<ul style="list-style-type: none"> • 42° × 32° • 24° × 18° • 14° × 10°
Minimum focus distance	<ul style="list-style-type: none"> • 0.15 m (0.49 ft.), 42° • 0.15 m (0.49 ft.), 24° • 1.0 m (3.28 ft.), 14° • Macro mode 71 μm as option to 24°
Minimum focus distance with MSX	<ul style="list-style-type: none"> • 0.65 m (2.13 ft.), 42° • 0.5 m (1.64 ft.), 24° • 1.0 m (3.28 ft.), 14°
Focal length	<ul style="list-style-type: none"> • 10 mm (0.39 in.), 42° • 17 mm (0.67 in.), 24° • 29 mm (1.41 in.), 14°
Spatial resolution (IFOV)	<ul style="list-style-type: none"> • 1.66 mrad/pixel, 42° • 0.90 mrad/pixel, 24° • 0.52 mrad/pixel, 14°
Available extra lenses	<ul style="list-style-type: none"> • 24° • 14°
Lens identification	Automatic
f number	<ul style="list-style-type: none"> • 1.1, 42° • 1.3, 24° • 1.5, 14°
Image frequency	30 Hz
Focus	<ul style="list-style-type: none"> • Continuous LDM • One-shot LDM • One-shot contrast • Manual
Field of view match	Yes
Digital zoom	1–6× continuous
Detector data	
Focal plane array/spectral range	Uncooled microbolometer/7.5–14 μm

1. Not supported when using macro.

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Detector data	
Detector pitch	17 µm

Image presentation	
Resolution	640 × 480 pixels (VGA)
Surface brightness (cd/m ²)	400
Screen size	4 in.
Viewing angle	80°
Color depth (bits)	24
Aspect ratio	4:3
Auto-rotation	Yes
Touchscreen	Optically bonded PCAP
Display technology	IPS
Cover glass material	Dragontrail®
Programmable buttons	2
Viewfinder	No
Image adjustment	<ul style="list-style-type: none"> • Automatic • Automatic maximum • Automatic minimum • Manual

Image presentation modes	
Infrared image	Yes
Visual image	Yes
MSX	Yes
Picture in picture	Resizable and movable
Gallery	Yes

Measurement	
Object temperature range	<ul style="list-style-type: none"> • -20 to +120°C (-4 to +248°F) • 0-650°C (32-1202°F) • 300-1500°C (572-2732°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading, for ambient temperature 15-35°C (59-95°F) and object temperature above 0°C (32°F)

Measurement analysis	
Spotmeter	3 in live mode
Area	3 in live mode
Automatic hot/cold detection	Automatic maximum/minimum markers within area
Measurement presets	<ul style="list-style-type: none"> • No measurements • Center spot • Hot spot • Cold spot • User preset 1 • User preset 2
Difference temperature	Yes
Reference temperature	Yes
Emissivity correction	Yes, variable from 0.01 to 1.0 or selected from materials list



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Measurement analysis	
Measurement corrections	Yes
External optics/windows correction	Yes
Screening	0.5°C (0.9°F) accuracy at 37°C (98.6°F) with reference

Alarm	
Color alarm (isotherm)	<ul style="list-style-type: none"> Above Below Interval Condensation (moisture/humidity/dewpoint) Insulation
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function

Set-up	
Color palettes	<ul style="list-style-type: none"> Iron Gray Rainbow Arctic Lava Rainbow HC
Setup commands	Local adaptation of units, language, date, and time formats
Languages	21

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Storage media	Removable memory: SD card
Time lapse (Periodic image storage)	10 seconds to 24 hours (infrared)
Remote control operation	<ul style="list-style-type: none"> Using FLIR Tools (using USB cable) FLIR Tools Mobile (over Wi-Fi)
Image file format	Standard JPEG, measurement data included. Infrared-only mode

Image annotations	
Voice	60 seconds with built-in microphone and speaker (and via Bluetooth) on still images and video
Text	Text from predefined list or soft keyboard on touchscreen
Visual image annotation	Yes
Image sketch	Yes: on infrared only
Sketch	From touchscreen
METERLINK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Area measurement information	Yes
GPS	Location data automatically added to every still image and first frame in video from built-in GPS

Video recording in camera	
Radiometric infrared-video recording	RTRR (.csq)



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Customer support

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Video recording in camera	
Non-radiometric infrared-video recording	H.264 to memory card
Visual video recording	H.264 to memory card

Video streaming	
Radiometric infrared-video streaming (compressed)	Over UVC or RTSP (Wi-Fi)
Non-radiometric video streaming (compressed: IR, MSX, visual, Picture in Picture)	<ul style="list-style-type: none">• H.264 (AVC) over RTSP (Wi-Fi)• MPEG4 over RTSP (Wi-Fi)• MJPEG over UVC and RTSP (Wi-Fi)
Visual video streaming	Yes

Digital camera	
Resolution	5 MP with LED light
Focus	Fixed
Field of view	53° × 41°
Video lamp	Built-in LED light

Laser pointer	
Laser alignment	Position is automatically displayed on the infrared image
Laser distance meter	Activated by dedicated button
Laser	Class 2, 0.05–40 m (0.16–131 ft.) ±1% of measured distance

Data communication interfaces	
Interfaces	USB 2.0, Bluetooth, Wi-Fi, DisplayPort
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
Audio	Microphone and speaker for voice annotation of images
USB	USB Type-C: data transfer/video/power
USB standard	USB 2.0 High Speed
Video out	DisplayPort
Video connector type	DisplayPort over USB Type-C

Power system	
Battery type	Rechargeable Li-ion battery
Battery voltage	3.6 V
Battery operating time	> 4 hours at 25°C (68°F) with typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or two-bay charger
Charging time (using two-bay charger)	3.5 h to 90% capacity, on-screen indicator
Charging temperature	0°C to +45°C (+32°F to +113°F), except for the Korean market: +10°C to +45°C (+50°F to +113°F)
External power operation	AC adapter 90–260 V AC (50/60 Hz) or 12 V from a vehicle (cable with standard plug, optional)
Power management	Automatic shut-down and sleep mode



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Website

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Customer support

<http://support.flir.com>

Environmental data	
Operating temperature range	-15 to +50°C (5–122°F)
Storage temperature range	-40 to +70°C (-40 to 158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 hours, 95% relative humidity, 25–40°C (77–104°F)/2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (immunity)• EN 61000-6-3 (emission)• FCC 47 CFR Part 15 Class B (emission)
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 228• FCC Part 15.249• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25g (IEC 60068-2-27)
Vibration	2g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight (including battery)	1.3 kg (2.9 lb.)
Size (L × W × H)	<ul style="list-style-type: none">• Lens vertical: 140 × 201.3 × 84.1 mm (5.5 × 7.9 × 3.3 in.)• Lens horizontal: 140 × 201.3 × 167.3 mm (5.5 × 7.9 × 6.6 in.)
Battery weight	195 g (6.89 oz.)
Battery size (L × W × H)	59 × 66 × 94 mm (2.3 × 2.6 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	PCABS with TPE, magnesium
Color	Black

Warranty and service	
Warranty	http://www.flir.com/warranty/

Shipping information	
Packaging, type	Cardboard box
Packaging, contents	<ul style="list-style-type: none">• Accessory box I:<ul style="list-style-type: none">• SD card (8 GB)• USB 2.0 A to USB Type-C cable, 1.0 m• USB Type-C to HDMI adapter, standard specification UH311• USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m• Power supply for battery charger• Power supply, 15 W/3 A• Printed documentation• Accessory box II:<ul style="list-style-type: none">• Neck strap• Lens cleaning cloth• Lens cap strap• Lanyard strap, battery charger• Infrared camera with lens• Battery (2 ea)• Battery charger• Hard transport case• Lens cap, front• Lens cap, front and rear (only for extra lenses)
Packaging, weight	5.8 kg (12.8 lb.)
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Shipping information	
EAN-13	<ul style="list-style-type: none">Sweden: 7332558012987Estonia: 4743254003279
UPC-12	845188014674
Country of origin	Sweden and/or Estonia

Supplies and accessories:

- T198495; Pouch
- T197771ACC; Bluetooth Headset
- T911706ACC; Car adapter 12 V
- T199588; Lens 14° + case
- T199590; Lens 42° + case
- T199589; Lens 24° + case
- T911705ACC; USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m
- T911632ACC; USB Type-C to HDMI adapter, standard specification UH311
- T911631ACC; USB 2.0 A to USB Type-C cable, 0.9 m
- T911630ACC; Power supply for camera, 15 W/3 A
- T911633ACC; Power supply for battery charger
- T199610; Battery charger
- T199300ACC; Battery
- T199601; Hand strap and neck strap
- T199347ACC; Hard transport case
- T199609; Macro mode 71/103 µm for 24°
- T198583; FLIR Tools+ (download card incl. license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)

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Website

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Customer support

<http://support.flir.com>



Imaging and optical data	
Infrared resolution	464 × 348 pixels
UltraMax (super-resolution) ¹	In FLIR Tools
NETD	<ul style="list-style-type: none"> • <30 mK, 42° @ +30°C (+86°F) • <40 mK, 24° @ +30°C (+86°F) • <50 mK, 14° @ +30°C (+86°F)
Field of view	<ul style="list-style-type: none"> • 42° × 32° • 24° × 18° • 14° × 10°
Minimum focus distance	<ul style="list-style-type: none"> • 0.15 m (0.49 ft.), 42° • 0.15 m (0.49 ft.), 24° • 1.0 m (3.28 ft.), 14° • Macro mode 71 μm as option to 24°
Minimum focus distance with MSX	<ul style="list-style-type: none"> • 0.65 m (2.13 ft.), 42° • 0.5 m (1.64 ft.), 24° • 1.0 m (3.28 ft.), 14°
Focal length	<ul style="list-style-type: none"> • 10 mm (0.39 in.), 42° • 17 mm (0.67 in.), 24° • 29 mm (1.41 in.), 14°
Spatial resolution (IFOV)	<ul style="list-style-type: none"> • 1.66 mrad/pixel, 42° • 0.90 mrad/pixel, 24° • 0.52 mrad/pixel, 14°
Available extra lenses	<ul style="list-style-type: none"> • 24°
Lens identification	Automatic
f number	<ul style="list-style-type: none"> • 1.1, 42° • 1.3, 24° • 1.5, 14°
Image frequency	30 Hz
Focus	<ul style="list-style-type: none"> • Continuous LDM • One-shot LDM • One-shot contrast • Manual
Field of view match	Yes
Digital zoom	1–6× continuous
Detector data	
Focal plane array/spectral range	Uncooled microbolometer/7.5–14 μm
Detector pitch	17 μm

1. Not supported when using macro.



FLIR T540 42° + 14°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Image presentation	
Resolution	640 × 480 pixels (VGA)
Surface brightness (cd/m ²)	400
Screen size	4 in.
Viewing angle	80°
Color depth (bits)	24
Aspect ratio	4:3
Auto-rotation	Yes
Touchscreen	Optically bonded PCAP
Display technology	IPS
Cover glass material	Dragontrail®
Programmable buttons	2
Viewfinder	No
Image adjustment	<ul style="list-style-type: none">• Automatic• Automatic maximum• Automatic minimum• Manual

Image presentation modes	
Infrared image	Yes
Visual image	Yes
MSX	Yes
Picture in picture	Resizable and movable
Gallery	Yes

Measurement	
Object temperature range	<ul style="list-style-type: none">• -20 to +120°C (-4 to +248°F)• 0–650°C (32–1202°F)• 300–1500°C (572–2732°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading, for ambient temperature 15–35°C (59–95°F) and object temperature above 0°C (32°F)

Measurement analysis	
Spotmeter	3 in live mode
Area	3 in live mode
Automatic hot/cold detection	Automatic maximum/minimum markers within area
Measurement presets	<ul style="list-style-type: none">• No measurements• Center spot• Hot spot• Cold spot• User preset 1• User preset 2
Difference temperature	Yes
Reference temperature	Yes
Emissivity correction	Yes, variable from 0.01 to 1.0 or selected from materials list
Measurement corrections	Yes
External optics/windows correction	Yes



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Measurement analysis	
Screening	0.5°C (0.9°F) accuracy at 37°C (98.6°F) with reference

Alarm	
Color alarm (isotherm)	<ul style="list-style-type: none">• Above• Below• Interval• Condensation (moisture/humidity/dewpoint)• Insulation
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function

Set-up	
Color palettes	<ul style="list-style-type: none">• Iron• Gray• Rainbow• Arctic• Lava• Rainbow HC
Setup commands	Local adaptation of units, language, date, and time formats
Languages	21

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Storage media	Removable memory: SD card
Time lapse (Periodic image storage)	10 seconds to 24 hours (infrared)
Remote control operation	<ul style="list-style-type: none">• Using FLIR Tools (using USB cable)• FLIR Tools Mobile (over Wi-Fi)
Image file format	Standard JPEG, measurement data included. Infrared-only mode

Image annotations	
Voice	60 seconds with built-in microphone and speaker (and via Bluetooth) on still images and video
Text	Text from predefined list or soft keyboard on touchscreen
Visual image annotation	Yes
Image sketch	Yes: on infrared only
Sketch	From touchscreen
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Area measurement information	Yes
GPS	Location data automatically added to every still image and first frame in video from built-in GPS

Video recording in camera	
Radiometric infrared-video recording	RTRR (.csq)
Non-radiometric infrared-video recording	H.264 to memory card
Visual video recording	H.264 to memory card



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Website

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Customer support

<http://support.flir.com>

Video streaming	
Radiometric infrared-video streaming (compressed)	Over UVC or RTSP (Wi-Fi)
Non-radiometric video streaming (compressed: IR, MSX, visual, Picture in Picture)	<ul style="list-style-type: none">• H.264 (AVC) over RTSP (Wi-Fi)• MPEG4 over RTSP (Wi-Fi)• MJPEG over UVC and RTSP (Wi-Fi)
Visual video streaming	Yes

Digital camera	
Resolution	5 MP with LED light
Focus	Fixed
Field of view	53° x 41°
Video lamp	Built-in LED light

Laser pointer	
Laser alignment	Position is automatically displayed on the infrared image
Laser distance meter	Activated by dedicated button
Laser	Class 2, 0.05–40 m (0.16–131 ft.) ±1% of measured distance

Data communication interfaces	
Interfaces	USB 2.0, Bluetooth, Wi-Fi, DisplayPort
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
Audio	Microphone and speaker for voice annotation of images
USB	USB Type-C: data transfer/video/power
USB standard	USB 2.0 High Speed
Video out	DisplayPort
Video connector type	DisplayPort over USB Type-C

Power system	
Battery type	Rechargeable Li-ion battery
Battery voltage	3.6 V
Battery operating time	> 4 hours at 25°C (68°F) with typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or two-bay charger
Charging time (using two-bay charger)	3.5 h to 90% capacity, on-screen indicator
Charging temperature	0°C to +45°C (+32°F to +113°F), except for the Korean market: +10°C to +45°C (+50°F to +113°F)
External power operation	AC adapter 90–260 V AC (50/60 Hz) or 12 V from a vehicle (cable with standard plug, optional)
Power management	Automatic shut-down and sleep mode

Environmental data	
Operating temperature range	–15 to +50°C (5–122°F)
Storage temperature range	–40 to +70°C (–40 to 158°F)



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Website

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Customer support

<http://support.flir.com>

Environmental data	
Humidity (operating and storage)	IEC 60068-2-30/24 hours, 95% relative humidity, 25–40°C (77–104°F)/2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (immunity)• EN 61000-6-3 (emission)• FCC 47 CFR Part 15 Class B (emission)
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 228• FCC Part 15.249• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25g (IEC 60068-2-27)
Vibration	2g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight (including battery)	1.3 kg (2.9 lb.)
Size (L × W × H)	<ul style="list-style-type: none">• Lens vertical: 140 × 201.3 × 84.1 mm (5.5 × 7.9 × 3.3 in.)• Lens horizontal: 140 × 201.3 × 167.3 mm (5.5 × 7.9 × 6.6 in.)
Battery weight	195 g (6.89 oz.)
Battery size (L × W × H)	59 × 66 × 94 mm (2.3 × 2.6 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	PCABS with TPE, magnesium
Color	Black

Warranty and service	
Warranty	http://www.flir.com/warranty/

Shipping information	
Packaging, type	Cardboard box
Packaging, contents	<ul style="list-style-type: none">• Extra lens, 14°• Accessory box I:<ul style="list-style-type: none">• SD card (8 GB)• USB 2.0 A to USB Type-C cable, 1.0 m• USB Type-C to HDMI adapter, standard specification UH311• USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m• Power supply for battery charger• Power supply, 15 W/3 A• Printed documentation• Accessory box II:<ul style="list-style-type: none">• Neck strap• Lens cleaning cloth• Lens cap strap• Lanyard strap, battery charger• Infrared camera with lens• Battery (2 ea)• Battery charger• Hard transport case• Lens cap, front• Lens cap, front and rear (only for extra lenses)
Packaging, weight	
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)
EAN-13	4743254003316
UPC-12	845188014728



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Shipping information	
Country of origin	Sweden and/or Estonia

Supplies and accessories:

- T198495; Pouch
- T197771ACC; Bluetooth Headset
- T911706ACC; Car adapter 12 V
- T199588; Lens 14° + case
- T199590; Lens 42° + case
- T199589; Lens 24° + case
- T911705ACC; USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m
- T911632ACC; USB Type-C to HDMI adapter, standard specification UH311
- T911631ACC; USB 2.0 A to USB Type-C cable, 0.9 m
- T911630ACC; Power supply for camera, 15 W/3 A
- T911633ACC; Power supply for battery charger
- T199610; Battery charger
- T199300ACC; Battery
- T199601; Hand strap and neck strap
- T199347ACC; Hard transport case
- T199609; Macro mode 71/103 µm for 24°
- T198583; FLIR Tools+ (download card incl. license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)

FLIR T6xx series

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P/N: 55903-1015

Revision

43545

Last modified

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

The FLIR T600 is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 480 x 360 pixel infrared resolution. The FLIR T600 is flexible and can meet your every need, and has extensive communication options.

Benefits:

- Highest performance with the latest technology: The FLIR T600 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before.
- Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T600 allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.

Imaging and optical data

IR resolution	480 x 360 pixels
UltraMax	No
Thermal sensitivity/NETD	<40 mK @ +30°C (+86°F)
Field of view (FOV)	15° x 11°
Minimum focus distance	0.5 m (1.64 ft.)
Focal length	41 mm (1.63 in.)
Spatial resolution (IFOV)	0.55 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Automatic (one shot) or manual
Digital zoom	1–4x continuous
Digital image enhancement	Adaptive digital noise reduction

Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm



FLIR T600 15° (incl. Wi-Fi and Ext. cal.)

P/N: 55903-1015

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Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 x 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none">-40°C to +150°C (-40°F to +302°F)+100°C to +650°C (+212°F to +1202°F)
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes or circles) with max./min./average (in post-acquisition analysis)
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets (in live images)	The user can select and combine measurements from any number of available spots/boxes/circles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava

Alarm	
Color Alarm (isotherm)	Above/below/interval



FLIR T600 15° (incl. Wi-Fi and Ext. cal.)

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Website

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Customer support

<http://support.flir.com>

Alarm	
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, Bluetooth, Language, Time & units, Camera information

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none"> Simultaneous storage of thermal and digital photo in same JPEG file. Optional to store digital photo as a separate JPEG file.
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image

Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> Separate PC software with extensive report generation

Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card

Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none"> MPEG-4 using Wi-Fi Uncompressed colorized video using USB
Visual video streaming	<ul style="list-style-type: none"> MPEG-4 using Wi-Fi Uncompressed colorized video using USB

Digital camera	
Built-in digital camera	5 Mpixels with LED light (photo as separate image)



FLIR T600 15° (incl. Wi-Fi and Ext. cal.)

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Digital camera	
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards

USB	
USB	<ul style="list-style-type: none">• USB-A: Connect external USB device• USB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB 2.0 high speed

Video output	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible

Radio	
Wi-Fi	<ul style="list-style-type: none">• Standard: 802.11 b/g• Frequency range: 2412–2462 MHz• Max. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)



FLIR T600 15° (incl. Wi-Fi and Ext. cal.)

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<http://support.flir.com>

Environmental data	
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L x W x H)	143 x 195 x 95 mm (5.6 x 7.7 x 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery (2 ea.)• Battery charger• Bluetooth headset• Calibration certificate• Extended calibration certificate• HDMI-DVI cable• HDMI-HDMI cable• Hard transport case• Lens cap• Memory card• Neck strap• Power supply, incl. multi-plugs• Printed documentation• Tripod adapter• USB cable, Std A to Mini-B
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 x 192 x 370 mm (19.49 x 7.56 x 14.57 in.)
EAN-13	7332558011867
UPC-12	845188012977
Country of origin	Sweden

Supplies & accessories:

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9x (50 µm) with case
- T198060; Close-up IR lens, 5.8x (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5x (25 µm) with case
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.



FLIR T600 15° (incl. Wi-Fi and Ext. cal.)

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- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case
- T198495; Pouch
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in.
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198496; Stylus pen
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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Website

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Customer support

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General description	
The FLIR T600 is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 480 x 360 pixel infrared resolution. The FLIR T600 is flexible and can meet your every need, and has extensive communication options.	
Benefits:	
<ul style="list-style-type: none"> • Highest performance with the latest technology: The FLIR T600 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. • Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views. • Extensive communication options: The Wi-Fi connectivity of the FLIR T600 allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image. 	

Imaging and optical data	
IR resolution	480 x 360 pixels
UltraMax	No
Thermal sensitivity/NETD	<40 mK @ +30°C (+86°F)
Field of view (FOV)	15° x 11°
Minimum focus distance	0.5 m (1.64 ft.)
Focal length	41 mm (1.63 in.)
Spatial resolution (IFOV)	0.55 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Automatic (one shot) or manual
Digital zoom	1–4x continuous
Digital image enhancement	Adaptive digital noise reduction

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm



FLIR T600 15° (incl. Wi-Fi)

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 x 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none">-40°C to +150°C (-40°F to +302°F)+100°C to +650°C (+212°F to +1202°F)
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes or circles) with max./min./average (in post-acquisition analysis)
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets (in live images)	The user can select and combine measurements from any number of available spots/boxes/circles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava

Alarm	
Color Alarm (isotherm)	Above/below/interval



FLIR T600 15° (incl. Wi-Fi)

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Website

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Customer support

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Alarm	
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, Bluetooth, Language, Time & units, Camera information

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none"> Simultaneous storage of thermal and digital photo in same JPEG file. Optional to store digital photo as a separate JPEG file.
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image

Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> Separate PC software with extensive report generation

Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card

Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none"> MPEG-4 using Wi-Fi Uncompressed colorized video using USB
Visual video streaming	<ul style="list-style-type: none"> MPEG-4 using Wi-Fi Uncompressed colorized video using USB

Digital camera	
Built-in digital camera	5 Mpixels with LED light (photo as separate image)



FLIR T600 15° (incl. Wi-Fi)

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Website

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Customer support

<http://support.flir.com>

Digital camera	
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards

USB	
USB	<ul style="list-style-type: none">• USB-A: Connect external USB device• USB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB 2.0 high speed

Video output	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible

Radio	
Wi-Fi	<ul style="list-style-type: none">• Standard: 802.11 b/g• Frequency range: 2412–2462 MHz• Max. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)



FLIR T600 15° (incl. Wi-Fi)

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Website

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Customer support

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Environmental data	
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L x W x H)	143 x 195 x 95 mm (5.6 x 7.7 x 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery (2 ea.)• Battery charger• Bluetooth headset• Calibration certificate• Printed documentation• HDMI-DVI cable• HDMI-HDMI cable• Hard transport case• Lens cap• Memory card• Neck strap• Power supply, incl. multi-plugs• Tripod adapter• USB cable, Std A to Mini-B
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 x 192 x 370 mm (19.49 x 7.56 x 14.57 in.)
EAN-13	7332558006641
UPC-12	845188006990
Country of origin	Sweden

Supplies & accessories:

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9x (50 µm) with case
- T198060; Close-up IR lens, 5.8x (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5x (25 µm) with case
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m



FLIR T600 15° (incl. Wi-Fi)

P/N: 55903-0922

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case
- T198495; Pouch
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198496; Stylus pen
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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General description	
The FLIR T600 is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 480 x 360 pixel infrared resolution. The FLIR T600 is flexible and can meet your every need, and has extensive communication options.	
Benefits:	
<ul style="list-style-type: none"> • Highest performance with the latest technology: The FLIR T600 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. • Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views. • Extensive communication options: The Wi-Fi connectivity of the FLIR T600 allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image. 	

Imaging and optical data	
IR resolution	480 x 360 pixels
UltraMax	No
Thermal sensitivity/NETD	<40 mK @ +30°C (+86°F)
Field of view (FOV)	25° x 19°
Minimum focus distance	0.25 m (0.82 ft.)
Focal length	25 mm (0.97 in.)
Spatial resolution (IFOV)	0.92 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Automatic (one shot) or manual
Digital zoom	1-4x continuous
Digital image enhancement	Adaptive digital noise reduction

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5-14 μm
Detector pitch	17 μm



FLIR T600 25° (incl. Wi-Fi and Ext. cal.)

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Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 x 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none"> -40°C to +150°C (-40°F to +302°F) +100°C to +650°C (+212°F to +1202°F)
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes or circles) with max./min./average (in post-acquisition analysis)
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets (in live images)	The user can select and combine measurements from any number of available spots/boxes/circles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava

Alarm	
Color Alarm (isotherm)	Above/below/interval



FLIR T600 25° (incl. Wi-Fi and Ext. cal.)

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Customer support

<http://support.flir.com>

Alarm	
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, Bluetooth, Language, Time & units, Camera information

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none">• Simultaneous storage of thermal and digital photo in same JPEG file.• Optional to store digital photo as a separate JPEG file.
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image

Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none">• Separate PC software with extensive report generation

Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card

Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none">• MPEG-4 using Wi-Fi• Uncompressed colorized video using USB
Visual video streaming	<ul style="list-style-type: none">• MPEG-4 using Wi-Fi• Uncompressed colorized video using USB

Digital camera	
Built-in digital camera	5 Mpixels with LED light (photo as separate image)



FLIR T600 25° (incl. Wi-Fi and Ext. cal.)

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Digital camera	
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards

USB	
USB	<ul style="list-style-type: none">• USB-A: Connect external USB device• USB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB 2.0 high speed

Video output	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible

Radio	
Wi-Fi	<ul style="list-style-type: none">• Standard: 802.11 b/g• Frequency range: 2412–2462 MHz• Max. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)



FLIR T600 25° (incl. Wi-Fi and Ext. cal.)

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Environmental data	
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L x W x H)	143 x 195 x 95 mm (5.6 x 7.7 x 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery (2 ea.)• Battery charger• Bluetooth headset• Calibration certificate• Extended calibration certificate• HDMI-DVI cable• HDMI-HDMI cable• Hard transport case• Lens cap• Memory card• Neck strap• Power supply, incl. multi-plugs• Printed documentation• Tripod adapter• USB cable, Std A to Mini-B
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 x 192 x 370 mm (19.49 x 7.56 x 14.57 in.)
EAN-13	7332558011874
UPC-12	845188012984
Country of origin	Sweden

Supplies & accessories:

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9x (50 µm) with case
- T198060; Close-up IR lens, 5.8x (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5x (25 µm) with case
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.



FLIR T600 25° (incl. Wi-Fi and Ext. cal.)

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Website

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Customer support

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- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case
- T198495; Pouch
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in.
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198496; Stylus pen
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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Website

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General description	
The FLIR T600 is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 480 x 360 pixel infrared resolution. The FLIR T600 is flexible and can meet your every need, and has extensive communication options.	
Benefits:	
<ul style="list-style-type: none"> • Highest performance with the latest technology: The FLIR T600 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. • Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views. • Extensive communication options: The Wi-Fi connectivity of the FLIR T600 allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image. 	

Imaging and optical data	
IR resolution	480 x 360 pixels
UltraMax	No
Thermal sensitivity/NETD	<40 mK @ +30°C (+86°F)
Field of view (FOV)	25° x 19°
Minimum focus distance	0.25 m (0.82 ft.)
Focal length	25 mm (0.97 in.)
Spatial resolution (IFOV)	0.92 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Automatic (one shot) or manual
Digital zoom	1-4x continuous
Digital image enhancement	Adaptive digital noise reduction

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5-14 μm
Detector pitch	17 μm



FLIR T600 25° (incl. Wi-Fi)

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 x 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none">-40°C to +150°C (-40°F to +302°F)+100°C to +650°C (+212°F to +1202°F)
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes or circles) with max./min./average (in post-acquisition analysis)
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets (in live images)	The user can select and combine measurements from any number of available spots/boxes/circles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava

Alarm	
Color Alarm (isotherm)	Above/below/interval



FLIR T600 25° (incl. Wi-Fi)

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Customer support

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Alarm	
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, Bluetooth, Language, Time & units, Camera information

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none"> Simultaneous storage of thermal and digital photo in same JPEG file. Optional to store digital photo as a separate JPEG file.
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image

Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> Separate PC software with extensive report generation

Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card

Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none"> MPEG-4 using Wi-Fi Uncompressed colorized video using USB
Visual video streaming	<ul style="list-style-type: none"> MPEG-4 using Wi-Fi Uncompressed colorized video using USB

Digital camera	
Built-in digital camera	5 Mpixels with LED light (photo as separate image)



FLIR T600 25° (incl. Wi-Fi)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Digital camera	
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards

USB	
USB	<ul style="list-style-type: none">• USB-A: Connect external USB device• USB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB 2.0 high speed

Video output	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible

Radio	
Wi-Fi	<ul style="list-style-type: none">• Standard: 802.11 b/g• Frequency range: 2412–2462 MHz• Max. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)



FLIR T600 25° (incl. Wi-Fi)

P/N: 55903-1022

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Environmental data	
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L x W x H)	143 x 195 x 95 mm (5.6 x 7.7 x 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery (2 ea.)• Battery charger• Bluetooth headset• Calibration certificate• Printed documentation• HDMI-DVI cable• HDMI-HDMI cable• Hard transport case• Lens cap• Memory card• Neck strap• Power supply, incl. multi-plugs• Tripod adapter• USB cable, Std A to Mini-B
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 x 192 x 370 mm (19.49 x 7.56 x 14.57 in.)
EAN-13	7332558006658
UPC-12	845188007003
Country of origin	Sweden

Supplies & accessories:

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9x (50 µm) with case
- T198060; Close-up IR lens, 5.8x (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5x (25 µm) with case
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m

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Website

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Customer support

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- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case
- T198495; Pouch
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198496; Stylus pen
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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General description

The FLIR T600 is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 480 x 360 pixel infrared resolution. The FLIR T600 is flexible and can meet your every need, and has extensive communication options.

Benefits:

- Highest performance with the latest technology: The FLIR T600 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before.
- Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T600 allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.

Imaging and optical data

IR resolution	480 x 360 pixels
UltraMax	No
Thermal sensitivity/NETD	<40 mK @ +30°C (+86°F)
Field of view (FOV)	25° x 19°
Minimum focus distance	0.25 m (0.82 ft.)
Focal length	25 mm (0.97 in.)
Spatial resolution (IFOV)	0.92 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Automatic (one shot) or manual
Digital zoom	1–4x continuous
Digital image enhancement	Adaptive digital noise reduction

Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm



FLIR T600 25° and 15° w/case

P/N: 55903-1007

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Customer support

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Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 x 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none"> -40°C to +150°C (-40°F to +302°F) +100°C to +650°C (+212°F to +1202°F)
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes or circles) with max./min./average (in post-acquisition analysis)
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets (in live images)	The user can select and combine measurements from any number of available spots/boxes/circles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava

Alarm	
Color Alarm (isotherm)	Above/below/interval



FLIR T600 25° and 15° w/case

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Alarm	
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, Bluetooth, Language, Time & units, Camera information

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none">• Simultaneous storage of thermal and digital photo in same JPEG file.• Optional to store digital photo as a separate JPEG file.
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image

Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none">• Separate PC software with extensive report generation

Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card

Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none">• MPEG-4 using Wi-Fi• Uncompressed colorized video using USB
Visual video streaming	<ul style="list-style-type: none">• MPEG-4 using Wi-Fi• Uncompressed colorized video using USB

Digital camera	
Built-in digital camera	5 Mpixels with LED light (photo as separate image)



FLIR T600 25° and 15° w/case

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Digital camera	
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards

USB	
USB	<ul style="list-style-type: none">• USB-A: Connect external USB device• USB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB 2.0 high speed

Video output	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible

Radio	
Wi-Fi	<ul style="list-style-type: none">• Standard: 802.11 b/g• Frequency range: 2412–2462 MHz• Max. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)



FLIR T600 25° and 15° w/case

P/N: 55903-1007

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Website

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Customer support

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Environmental data	
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none"> • ETSI EN 301 489-1 (radio) • ETSI EN 301 489-17 • EN 61000-6-2 (Immunity) • EN 61000-6-3 (Emission) • FCC 47 CFR Part 15 Class B (Emission) • ICES-003
Radio spectrum	<ul style="list-style-type: none"> • ETSI EN 300 328 • FCC Part 15.247 • RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L x W x H)	143 x 195 x 95 mm (5.6 x 7.7 x 3.7 in.)
Tripod mounting	UNC 1/4"-20
Housing material	Magnesium

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Infrared camera with lens • Battery (2 ea.) • Battery charger • Bluetooth headset • Calibration certificate • HDMI-DVI cable • HDMI-HDMI cable • Hard transport case • IR lens, f=41.3 mm (15°) with case • Lens cap • Memory card • Neck strap • Power supply, incl. multi-plugs • Printed documentation • Tripod adapter • USB cable, Std A to Mini-B
EAN-13	7332558011843
UPC-12	845188012953
Country of origin	Sweden

Supplies & accessories:

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9x (50 µm) with case
- T198060; Close-up IR lens, 5.8x (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5x (25 µm) with case
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case
- T198495; Pouch



FLIR T600 25° and 15° w/case

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Customer support

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- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198496; Stylus pen
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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General description	
The FLIR T600 is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 480 x 360 pixel infrared resolution. The FLIR T600 is flexible and can meet your every need, and has extensive communication options.	
Benefits:	
<ul style="list-style-type: none"> • Highest performance with the latest technology: The FLIR T600 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. • Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views. • Extensive communication options: The Wi-Fi connectivity of the FLIR T600 allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image. 	

Imaging and optical data	
IR resolution	480 x 360 pixels
UltraMax	No
Thermal sensitivity/NETD	<40 mK @ +30°C (+86°F)
Field of view (FOV)	25° x 19°
Minimum focus distance	0.25 m (0.82 ft.)
Focal length	25 mm (0.97 in.)
Spatial resolution (IFOV)	0.92 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Automatic (one shot) or manual
Digital zoom	1-4x continuous
Digital image enhancement	Adaptive digital noise reduction

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5-14 μm
Detector pitch	17 μm



FLIR T600 25° and 45° w/case

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Website

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Customer support

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Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 x 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none"> -40°C to +150°C (-40°F to +302°F) +100°C to +650°C (+212°F to +1202°F)
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes or circles) with max./min./average (in post-acquisition analysis)
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets (in live images)	The user can select and combine measurements from any number of available spots/boxes/circles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava

Alarm	
Color Alarm (isotherm)	Above/below/interval



FLIR T600 25° and 45° w/case

P/N: 55903-1008

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Alarm	
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, Bluetooth, Language, Time & units, Camera information

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none">• Simultaneous storage of thermal and digital photo in same JPEG file.• Optional to store digital photo as a separate JPEG file.
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image

Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none">• Separate PC software with extensive report generation

Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card

Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none">• MPEG-4 using Wi-Fi• Uncompressed colorized video using USB
Visual video streaming	<ul style="list-style-type: none">• MPEG-4 using Wi-Fi• Uncompressed colorized video using USB

Digital camera	
Built-in digital camera	5 Mpixels with LED light (photo as separate image)



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Digital camera	
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards

USB	
USB	<ul style="list-style-type: none">• USB-A: Connect external USB device• USB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB 2.0 high speed

Video output	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible

Radio	
Wi-Fi	<ul style="list-style-type: none">• Standard: 802.11 b/g• Frequency range: 2412–2462 MHz• Max. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)



FLIR T600 25° and 45° w/case

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Environmental data	
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L x W x H)	143 x 195 x 95 mm (5.6 x 7.7 x 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery (2 ea.)• Battery charger• Bluetooth headset• Calibration certificate• HDMI-DVI cable• HDMI-HDMI cable• Hard transport case• IR lens, f=13.1 mm (45°) with case• Lens cap• Memory card• Neck strap• Power supply, incl. multi-plugs• Printed documentation• Tripod adapter• USB cable, Std A to Mini-B
EAN-13	7332558011850
UPC-12	845188012960
Country of origin	Sweden

Supplies & accessories:

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9x (50 µm) with case
- T198060; Close-up IR lens, 5.8x (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5x (25 µm) with case
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case
- T198495; Pouch



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- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198496; Stylus pen
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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General description

The FLIR T600 is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 480 x 360 pixel infrared resolution. The FLIR T600 is flexible and can meet your every need, and has extensive communication options.

Benefits:

- Highest performance with the latest technology: The FLIR T600 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before.
- Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T600 allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.

Imaging and optical data

IR resolution	480 x 360 pixels
UltraMax	No
Thermal sensitivity/NETD	<40 mK @ +30°C (+86°F)
Field of view (FOV)	45° x 34°
Minimum focus distance	0.15 m (0.49 ft.)
Focal length	13 mm (0.52 in.)
Spatial resolution (IFOV)	1.73 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Automatic (one shot) or manual
Digital zoom	1–4x continuous
Digital image enhancement	Adaptive digital noise reduction

Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm



FLIR T600 45° (incl. Wi-Fi and Ext. cal.)

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Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 x 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none">-40°C to +150°C (-40°F to +302°F)+100°C to +650°C (+212°F to +1202°F)
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes or circles) with max./min./average (in post-acquisition analysis)
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets (in live images)	The user can select and combine measurements from any number of available spots/boxes/circles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava

Alarm	
Color Alarm (isotherm)	Above/below/interval



FLIR T600 45° (incl. Wi-Fi and Ext. cal.)

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Alarm	
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, Bluetooth, Language, Time & units, Camera information

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none">• Simultaneous storage of thermal and digital photo in same JPEG file.• Optional to store digital photo as a separate JPEG file.
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image

Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none">• Separate PC software with extensive report generation

Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card

Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none">• MPEG-4 using Wi-Fi• Uncompressed colorized video using USB
Visual video streaming	<ul style="list-style-type: none">• MPEG-4 using Wi-Fi• Uncompressed colorized video using USB

Digital camera	
Built-in digital camera	5 Mpxels with LED light (photo as separate image)



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Customer support

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Digital camera	
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards

USB	
USB	<ul style="list-style-type: none">• USB-A: Connect external USB device• USB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB 2.0 high speed

Video output	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible

Radio	
Wi-Fi	<ul style="list-style-type: none">• Standard: 802.11 b/g• Frequency range: 2412–2462 MHz• Max. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)

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Website

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Customer support

<http://support.flir.com>

Environmental data	
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none"> • ETSI EN 301 489-1 (radio) • ETSI EN 301 489-17 • EN 61000-6-2 (Immunity) • EN 61000-6-3 (Emission) • FCC 47 CFR Part 15 Class B (Emission) • ICES-003
Radio spectrum	<ul style="list-style-type: none"> • ETSI EN 300 328 • FCC Part 15.247 • RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L x W x H)	143 x 195 x 95 mm (5.6 x 7.7 x 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Infrared camera with lens • Battery (2 ea.) • Battery charger • Bluetooth headset • Calibration certificate • Extended calibration certificate • HDMI-DVI cable • HDMI-HDMI cable • Hard transport case • Lens cap • Memory card • Neck strap • Power supply, incl. multi-plugs • Printed documentation • Tripod adapter • USB cable, Std A to Mini-B
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 x 192 x 370 mm (19.49 x 7.56 x 14.57 in.)
EAN-13	7332558011881
UPC-12	845188012991
Country of origin	Sweden

Supplies & accessories:

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9x (50 µm) with case
- T198060; Close-up IR lens, 5.8x (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5x (25 µm) with case
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.



FLIR T600 45° (incl. Wi-Fi and Ext. cal.)

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Website

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Customer support

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- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case
- T198495; Pouch
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in.
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198496; Stylus pen
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

The FLIR T600 is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 480 x 360 pixel infrared resolution. The FLIR T600 is flexible and can meet your every need, and has extensive communication options.

Benefits:

- Highest performance with the latest technology: The FLIR T600 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before.
- Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T600 allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.

Imaging and optical data

IR resolution	480 x 360 pixels
UltraMax	No
Thermal sensitivity/NETD	<40 mK @ +30°C (+86°F)
Field of view (FOV)	45° x 34°
Minimum focus distance	0.15 m (0.49 ft.)
Focal length	13 mm (0.52 in.)
Spatial resolution (IFOV)	1.73 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Automatic (one shot) or manual
Digital zoom	1–4x continuous
Digital image enhancement	Adaptive digital noise reduction

Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm



FLIR T600 45° (incl. Wi-Fi)

P/N: 55903-1522

Revision

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2017-06-28 14:11 UTC+1

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Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 x 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none"> -40°C to +150°C (-40°F to +302°F) +100°C to +650°C (+212°F to +1202°F)
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes or circles) with max./min./average (in post-acquisition analysis)
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets (in live images)	The user can select and combine measurements from any number of available spots/boxes/circles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava

Alarm	
Color Alarm (isotherm)	Above/below/interval



FLIR T600 45° (incl. Wi-Fi)

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Customer support

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Alarm	
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, Bluetooth, Language, Time & units, Camera information

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none"> Simultaneous storage of thermal and digital photo in same JPEG file. Optional to store digital photo as a separate JPEG file.
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image

Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> Separate PC software with extensive report generation

Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card

Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none"> MPEG-4 using Wi-Fi Uncompressed colorized video using USB
Visual video streaming	<ul style="list-style-type: none"> MPEG-4 using Wi-Fi Uncompressed colorized video using USB

Digital camera	
Built-in digital camera	5 Mpxels with LED light (photo as separate image)



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Digital camera	
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards

USB	
USB	<ul style="list-style-type: none">• USB-A: Connect external USB device• USB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB 2.0 high speed

Video output	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible

Radio	
Wi-Fi	<ul style="list-style-type: none">• Standard: 802.11 b/g• Frequency range: 2412–2462 MHz• Max. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)



FLIR T600 45° (incl. Wi-Fi)

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Environmental data	
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L x W x H)	143 x 195 x 95 mm (5.6 x 7.7 x 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery (2 ea.)• Battery charger• Bluetooth headset• Calibration certificate• Printed documentation• HDMI-DVI cable• HDMI-HDMI cable• Hard transport case• Lens cap• Memory card• Neck strap• Power supply, incl. multi-plugs• Tripod adapter• USB cable, Std A to Mini-B
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 x 192 x 370 mm (19.49 x 7.56 x 14.57 in.)
EAN-13	7332558006665
UPC-12	845188007010
Country of origin	Sweden

Supplies & accessories:

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9x (50 µm) with case
- T198060; Close-up IR lens, 5.8x (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5x (25 µm) with case
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m



FLIR T600 45° (incl. Wi-Fi)

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- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case
- T198495; Pouch
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198496; Stylus pen
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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General description

The FLIR T600bx is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 480 × 360 pixel infrared resolution. The FLIR T600bx is flexible and can meet your every need, and has extensive communication options.

Benefits:

- Highest performance with the latest technology: The FLIR T600bx is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before.
- Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T600bx allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLINK function transfers readings from external measurement instruments to the infrared image.

Imaging and optical data

IR resolution	480 × 360 pixels
UltraMax	No
Thermal sensitivity/NETD	<30 mK @ +30°C (+86°F)
Field of view (FOV)	25° × 19°
Minimum focus distance	0.25 m (0.82 ft.)
Focal length	25 mm (0.97 in.)
Spatial resolution (IFOV)	0.92 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Automatic (one shot) or manual
Digital zoom	1–4× continuous
Digital image enhancement	Adaptive digital noise reduction

Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm



FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)

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Website

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Customer support

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Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 x 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none"> -40°C to +150°C (-40°F to +302°F) +100°C to +350°C (+212°F to +662°F)
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes or circles) with max./min./average (in post-acquisition analysis)
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets (in live images)	The user can select and combine measurements from any number of available spots/boxes/circles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava

Alarm	
Color Alarm (isotherm)	Above/below/interval



FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)

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Customer support

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Alarm	
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Humidity alarm	1 humidity alarm, including dew point alarm
Insulation alarm	1 insulation alarm

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, Bluetooth, Language, Time & units, Camera information

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none">• Simultaneous storage of thermal and digital photo in same JPEG file.• Optional to store digital photo as a separate JPEG file.
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image

Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none">• Separate PC software with extensive report generation

Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card

Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none">• MPEG-4 using Wi-Fi• Uncompressed colorized video using USB
Visual video streaming	<ul style="list-style-type: none">• MPEG-4 using Wi-Fi• Uncompressed colorized video using USB



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Website

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Customer support

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Digital camera	
Built-in digital camera	5 Mpixels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards

USB	
USB	<ul style="list-style-type: none">• USB-A: Connect external USB device• USB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB 2.0 high speed

Video output	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible

Radio	
Wi-Fi	<ul style="list-style-type: none">• Standard: 802.11 b/g• Frequency range: 2412–2462 MHz• Max. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)

Environmental data	
Operating temperature range	-15°C to +50°C (+5°F to +122°F)



FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)

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Environmental data	
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery (2 ea.)• Battery charger• Bluetooth headset• Calibration certificate• Extended calibration certificate• HDMI-DVI cable• HDMI-HDMI cable• Hard transport case• Lens cap• Memory card• Neck strap• Power supply, incl. multi-plugs• Printed documentation• Tripod adapter• USB cable, Std A to Mini-B
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558011898
UPC-12	845188013004
Country of origin	Sweden

Supplies & accessories:

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50 µm) with case
- T198060; Close-up IR lens, 5.8× (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5× (25 µm) with case
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB



FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)

P/N: 55903-2823

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case
- T198495; Pouch
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198496; Stylus pen
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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General description

The FLIR T600bx is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 480 × 360 pixel infrared resolution. The FLIR T600bx is flexible and can meet your every need, and has extensive communication options.

Benefits:

- Highest performance with the latest technology: The FLIR T600bx is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before.
- Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T600bx allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLINK function transfers readings from external measurement instruments to the infrared image.

Imaging and optical data

IR resolution	480 × 360 pixels
UltraMax	No
Thermal sensitivity/NETD	<30 mK @ +30°C (+86°F)
Field of view (FOV)	25° × 19°
Minimum focus distance	0.25 m (0.82 ft.)
Focal length	25 mm (0.97 in.)
Spatial resolution (IFOV)	0.92 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Automatic (one shot) or manual
Digital zoom	1–4× continuous
Digital image enhancement	Adaptive digital noise reduction

Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm



FLIR T600bx 25° (incl. Wi-Fi)

P/N: 55903-2822

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Website

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Customer support

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Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 x 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none"> -40°C to +150°C (-40°F to +302°F) +100°C to +350°C (+212°F to +662°F)
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes or circles) with max./min./average (in post-acquisition analysis)
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets (in live images)	The user can select and combine measurements from any number of available spots/boxes/circles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava

Alarm	
Color Alarm (isotherm)	Above/below/interval



FLIR T600bx 25° (incl. Wi-Fi)

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Website

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Customer support

<http://support.flir.com>

Alarm	
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Humidity alarm	1 humidity alarm, including dew point alarm
Insulation alarm	1 insulation alarm

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, Bluetooth, Language, Time & units, Camera information

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none"> • Simultaneous storage of thermal and digital photo in same JPEG file. • Optional to store digital photo as a separate JPEG file.
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image

Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> • Separate PC software with extensive report generation

Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card

Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none"> • MPEG-4 using Wi-Fi • Uncompressed colorized video using USB
Visual video streaming	<ul style="list-style-type: none"> • MPEG-4 using Wi-Fi • Uncompressed colorized video using USB



FLIR T600bx 25° (incl. Wi-Fi)

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Website

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Customer support

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Digital camera	
Built-in digital camera	5 Mpixels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards

USB	
USB	<ul style="list-style-type: none">USB-A: Connect external USB deviceUSB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB 2.0 high speed

Video output	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible

Radio	
Wi-Fi	<ul style="list-style-type: none">Standard: 802.11 b/gFrequency range: 2412–2462 MHzMax. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)

Environmental data	
Operating temperature range	-15°C to +50°C (+5°F to +122°F)



FLIR T600bx 25° (incl. Wi-Fi)

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Environmental data	
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L x W x H)	143 x 195 x 95 mm (5.6 x 7.7 x 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery (2 ea.)• Battery charger• Bluetooth headset• Calibration certificate• Printed documentation• HDMI-DVI cable• HDMI-HDMI cable• Hard transport case• Lens cap• Memory card• Neck strap• Power supply, incl. multi-plugs• Tripod adapter• USB cable, Std A to Mini-B
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 x 192 x 370 mm (19.49 x 7.56 x 14.57 in.)
EAN-13	7332558006696
UPC-12	845188007041
Country of origin	Sweden

Supplies & accessories:

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9x (50 µm) with case
- T198060; Close-up IR lens, 5.8x (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5x (25 µm) with case
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B



FLIR T600bx 25° (incl. Wi-Fi)

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Website

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Customer support

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- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case
- T198495; Pouch
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198496; Stylus pen
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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General description

The FLIR T600bx is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 480 × 360 pixel infrared resolution. The FLIR T600bx is flexible and can meet your every need, and has extensive communication options.

Benefits:

- Highest performance with the latest technology: The FLIR T600bx is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before.
- Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T600bx allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLINK function transfers readings from external measurement instruments to the infrared image.

Imaging and optical data

IR resolution	480 × 360 pixels
UltraMax	No
Thermal sensitivity/NETD	<30 mK @ +30°C (+86°F)
Field of view (FOV)	45° × 34°
Minimum focus distance	0.15 m (0.49 ft.)
Focal length	13 mm (0.52 in.)
Spatial resolution (IFOV)	1.73 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Automatic (one shot) or manual
Digital zoom	1–4× continuous
Digital image enhancement	Adaptive digital noise reduction

Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm



FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)

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Website

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Customer support

<http://support.flir.com>

Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 x 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none">-40°C to +150°C (-40°F to +302°F)+100°C to +350°C (+212°F to +662°F)
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes or circles) with max./min./average (in post-acquisition analysis)
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets (in live images)	The user can select and combine measurements from any number of available spots/boxes/circles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava

Alarm	
Color Alarm (isotherm)	Above/below/interval



FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)

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Website

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Customer support

<http://support.flir.com>

Alarm	
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Humidity alarm	1 humidity alarm, including dew point alarm
Insulation alarm	1 insulation alarm

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, Bluetooth, Language, Time & units, Camera information

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none"> • Simultaneous storage of thermal and digital photo in same JPEG file. • Optional to store digital photo as a separate JPEG file.
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image

Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> • Separate PC software with extensive report generation

Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card

Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none"> • MPEG-4 using Wi-Fi • Uncompressed colorized video using USB
Visual video streaming	<ul style="list-style-type: none"> • MPEG-4 using Wi-Fi • Uncompressed colorized video using USB



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Website

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Customer support

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Digital camera	
Built-in digital camera	5 Mpixels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards

USB	
USB	<ul style="list-style-type: none">USB-A: Connect external USB deviceUSB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB 2.0 high speed

Video output	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible

Radio	
Wi-Fi	<ul style="list-style-type: none">Standard: 802.11 b/gFrequency range: 2412–2462 MHzMax. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)

Environmental data	
Operating temperature range	-15°C to +50°C (+5°F to +122°F)



FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)

P/N: 55903-2923

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Website

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Customer support

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Environmental data	
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery (2 ea.)• Battery charger• Bluetooth headset• Calibration certificate• Extended calibration certificate• HDMI-DVI cable• HDMI-HDMI cable• Hard transport case• Lens cap• Memory card• Neck strap• Power supply, incl. multi-plugs• Printed documentation• Tripod adapter• USB cable, Std A to Mini-B
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558011904
UPC-12	845188013011
Country of origin	Sweden

Supplies & accessories:

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50 µm) with case
- T198060; Close-up IR lens, 5.8× (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5× (25 µm) with case
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB



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Website

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Customer support

<http://support.flir.com>

- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case
- T198495; Pouch
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198496; Stylus pen
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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General description	
The FLIR T600bx is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 480 × 360 pixel infrared resolution. The FLIR T600bx is flexible and can meet your every need, and has extensive communication options.	
Benefits:	
<ul style="list-style-type: none"> • Highest performance with the latest technology: The FLIR T600bx is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. • Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views. • Extensive communication options: The Wi-Fi connectivity of the FLIR T600bx allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLINK function transfers readings from external measurement instruments to the infrared image. 	

Imaging and optical data	
IR resolution	480 × 360 pixels
UltraMax	No
Thermal sensitivity/NETD	<30 mK @ +30°C (+86°F)
Field of view (FOV)	45° × 34°
Minimum focus distance	0.15 m (0.49 ft.)
Focal length	13 mm (0.52 in.)
Spatial resolution (IFOV)	1.73 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Automatic (one shot) or manual
Digital zoom	1–4× continuous
Digital image enhancement	Adaptive digital noise reduction

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm



FLIR T600bx 45° (incl. Wi-Fi)

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Customer support

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Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 x 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none">-40°C to +150°C (-40°F to +302°F)+100°C to +350°C (+212°F to +662°F)
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes or circles) with max./min./average (in post-acquisition analysis)
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets (in live images)	The user can select and combine measurements from any number of available spots/boxes/circles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava

Alarm	
Color Alarm (isotherm)	Above/below/interval



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Alarm	
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Humidity alarm	1 humidity alarm, including dew point alarm
Insulation alarm	1 insulation alarm

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, Bluetooth, Language, Time & units, Camera information

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none">• Simultaneous storage of thermal and digital photo in same JPEG file.• Optional to store digital photo as a separate JPEG file.
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image

Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none">• Separate PC software with extensive report generation

Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card

Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none">• MPEG-4 using Wi-Fi• Uncompressed colorized video using USB
Visual video streaming	<ul style="list-style-type: none">• MPEG-4 using Wi-Fi• Uncompressed colorized video using USB



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Digital camera	
Built-in digital camera	5 Mpixels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards

USB	
USB	<ul style="list-style-type: none">• USB-A: Connect external USB device• USB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB 2.0 high speed

Video output	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible

Radio	
Wi-Fi	<ul style="list-style-type: none">• Standard: 802.11 b/g• Frequency range: 2412–2462 MHz• Max. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)

Environmental data	
Operating temperature range	-15°C to +50°C (+5°F to +122°F)



FLIR T600bx 45° (incl. Wi-Fi)

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Website

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Customer support

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Environmental data	
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery (2 ea.)• Battery charger• Bluetooth headset• Calibration certificate• Printed documentation• HDMI-DVI cable• HDMI-HDMI cable• Hard transport case• Lens cap• Memory card• Neck strap• Power supply, incl. multi-plugs• Tripod adapter• USB cable, Std A to Mini-B
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558006702
UPC-12	845188007058
Country of origin	Sweden

Supplies & accessories:

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50 µm) with case
- T198060; Close-up IR lens, 5.8× (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5× (25 µm) with case
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B



FLIR T600bx 45° (incl. Wi-Fi)

P/N: 55903-2922

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case
- T198495; Pouch
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198496; Stylus pen
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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Website

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General description	
The FLIR T610 is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 640 × 480 pixel infrared resolution. The FLIR T610 is flexible and can meet your every need, and has extensive communication options.	
Benefits:	
<ul style="list-style-type: none"> • Highest performance with the latest technology: The FLIR T610 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. • Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views. • Extensive communication options: The Wi-Fi connectivity of the FLIR T610 allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image. • Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools. 	

Imaging and optical data	
IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<40 mK @ +30°C (+86°F)
Field of view (FOV)	15° × 11°
Minimum focus distance	0.5 m (1.64 ft.)
Focal length	41 mm (1.63 in.)
Spatial resolution (IFOV)	0.41 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Automatic (one shot) or manual
Digital zoom	1–4× continuous
Digital image enhancement	Adaptive digital noise reduction

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm

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Website

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Detector data	
Detector pitch	17 µm

Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none"> -40°C to +150°C (-40°F to +302°F) +100°C to +650°C (+212°F to +1202°F)
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes or circles) with max./min./average (in post-acquisition analysis)
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets (in live images)	The user can select and combine measurements from any number of available spots/boxes/circles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava



FLIR T610 15° (incl. Wi-Fi)

P/N: 55903-8022

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none">• Simultaneous storage of thermal and digital photo in same JPEG file.• Optional to store digital photo as a separate JPEG file.
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image

Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none">• Instant Report (*.pdf file) in camera• Separate PC software with extensive report generation

Geographic Information System	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image

Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card



FLIR T610 15° (incl. Wi-Fi)

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Video streaming	
Non-radiometric IR video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB
Visual video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB

Digital camera	
Built-in digital camera	5 Mpixels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards

USB	
USB	<ul style="list-style-type: none">USB-A: Connect external USB deviceUSB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB 2.0 high speed

Video output	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible

Radio	
Wi-Fi	<ul style="list-style-type: none">Standard: 802.11 b/gFrequency range: 2412–2462 MHzMax. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)



FLIR T610 15° (incl. Wi-Fi)

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Power system	
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery (2 ea.)• Battery charger• Bluetooth headset• Calibration certificate• Printed documentation• HDMI-DVI cable• HDMI-HDMI cable• Hard transport case• Lens cap• Memory card• Neck strap• Power supply, incl. multi-plugs• Tripod adapter• USB cable, Std A to Mini-B
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558006740
UPC-12	845188007096
Country of origin	Sweden

Supplies & accessories:

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50 µm) with case
- T198060; Close-up IR lens, 5.8× (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx



FLIR T610 15° (incl. Wi-Fi)

P/N: 55903-8022

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Customer support

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- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5x (25 µm) with case
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case
- T198495; Pouch
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198496; Stylus pen
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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General description

The FLIR T610 is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 640 × 480 pixel infrared resolution. The FLIR T610 is flexible and can meet your every need, and has extensive communication options.

Benefits:

- Highest performance with the latest technology: The FLIR T610 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before.
- Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T610 allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.
- Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools.

Imaging and optical data

IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<40 mK @ +30°C (+86°F)
Field of view (FOV)	25° × 19°
Minimum focus distance	0.25 m (0.82 ft.)
Focal length	25 mm (0.97 in.)
Spatial resolution (IFOV)	0.68 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Automatic (one shot) or manual
Digital zoom	1–4× continuous
Digital image enhancement	Adaptive digital noise reduction

Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm

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Detector data	
Detector pitch	17 µm

Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none"> • -40°C to +150°C (-40°F to +302°F) • +100°C to +650°C (+212°F to +1202°F)
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes or circles) with max./min./average (in post-acquisition analysis)
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets (in live images)	The user can select and combine measurements from any number of available spots/boxes/circles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava



FLIR T610 25° (incl. Wi-Fi)

P/N: 55903-3922

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Website

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Customer support

<http://support.flir.com>

Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none">• Simultaneous storage of thermal and digital photo in same JPEG file.• Optional to store digital photo as a separate JPEG file.
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image

Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none">• Instant Report (*.pdf file) in camera• Separate PC software with extensive report generation

Geographic Information System	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image

Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card



FLIR T610 25° (incl. Wi-Fi)

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Website

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Customer support

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Video streaming	
Non-radiometric IR video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB
Visual video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB

Digital camera	
Built-in digital camera	5 Mpixels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards

USB	
USB	<ul style="list-style-type: none">USB-A: Connect external USB deviceUSB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB 2.0 high speed

Video output	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible

Radio	
Wi-Fi	<ul style="list-style-type: none">Standard: 802.11 b/gFrequency range: 2412–2462 MHzMax. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)



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Website

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Power system	
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery (2 ea.)• Battery charger• Bluetooth headset• Calibration certificate• Printed documentation• HDMI-DVI cable• HDMI-HDMI cable• Hard transport case• Lens cap• Memory card• Neck strap• Power supply, incl. multi-plugs• Tripod adapter• USB cable, Std A to Mini-B
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558006757
UPC-12	845188007102
Country of origin	Sweden

Supplies & accessories:

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50 µm) with case
- T198060; Close-up IR lens, 5.8× (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx



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- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5x (25 µm) with case
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case
- T198495; Pouch
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198496; Stylus pen
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

P/N: 55903-4022

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43545

Last modified

2017-06-28 14:11 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

The FLIR T610 is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 640 × 480 pixel infrared resolution. The FLIR T610 is flexible and can meet your every need, and has extensive communication options.

Benefits:

- Highest performance with the latest technology: The FLIR T610 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before.
- Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T610 allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.
- Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools.

Imaging and optical data

IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<40 mK @ +30°C (+86°F)
Field of view (FOV)	45° × 34°
Minimum focus distance	0.15 m (0.49 ft.)
Focal length	13 mm (0.52 in.)
Spatial resolution (IFOV)	1.30 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Automatic (one shot) or manual
Digital zoom	1–4× continuous
Digital image enhancement	Adaptive digital noise reduction

Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm



FLIR T610 45° (incl. Wi-Fi)

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Detector data	
Detector pitch	17 µm

Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none">• -40°C to +150°C (-40°F to +302°F)• +100°C to +650°C (+212°F to +1202°F)
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes or circles) with max./min./average (in post-acquisition analysis)
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets (in live images)	The user can select and combine measurements from any number of available spots/boxes/circles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava



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Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none"> Simultaneous storage of thermal and digital photo in same JPEG file. Optional to store digital photo as a separate JPEG file.
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image

Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> Instant Report (*.pdf file) in camera Separate PC software with extensive report generation

Geographic Information System	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image

Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card



FLIR T610 45° (incl. Wi-Fi)

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Video streaming	
Non-radiometric IR video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB
Visual video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB

Digital camera	
Built-in digital camera	5 Mpixels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards

USB	
USB	<ul style="list-style-type: none">USB-A: Connect external USB deviceUSB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB 2.0 high speed

Video output	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible

Radio	
Wi-Fi	<ul style="list-style-type: none">Standard: 802.11 b/gFrequency range: 2412–2462 MHzMax. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)



FLIR T610 45° (incl. Wi-Fi)

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Power system	
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery (2 ea.)• Battery charger• Bluetooth headset• Calibration certificate• Printed documentation• HDMI-DVI cable• HDMI-HDMI cable• Hard transport case• Lens cap• Memory card• Neck strap• Power supply, incl. multi-plugs• Tripod adapter• USB cable, Std A to Mini-B
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558006764
UPC-12	845188007119
Country of origin	Sweden

Supplies & accessories:

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50 µm) with case
- T198060; Close-up IR lens, 5.8× (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx

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- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5x (25 µm) with case
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case
- T198495; Pouch
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198496; Stylus pen
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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Website

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Customer support

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General description

The FLIR T620 is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 640 × 480 pixel infrared resolution. The FLIR T620 is flexible and can meet your every need, and has extensive communication options.

Benefits:

- Highest performance with the latest technology: The FLIR T620 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before.
- Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T620 allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.
- Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools.

Imaging and optical data

IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<40 mK @ +30°C (+86°F)
Field of view (FOV)	15° × 11°
Minimum focus distance	0.5 m (1.64 ft.)
Focal length	41 mm (1.63 in.)
Spatial resolution (IFOV)	0.41 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Automatic (one shot) or manual
Digital zoom	1–4× continuous
Digital image enhancement	Adaptive digital noise reduction

Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm



FLIR T620 15° (incl. Wi-Fi and Ext. cal.)

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Detector data	
Detector pitch	17 µm

Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none">• -40°C to +150°C (-40°F to +302°F)• +100°C to +650°C (+212°F to +1202°F)
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes or circles) with max./min./average (in post-acquisition analysis)
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets (in live images)	The user can select and combine measurements from any number of available spots/boxes/circles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava



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Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none"> • Simultaneous storage of thermal and digital photo in same JPEG file. • Optional to store digital photo as a separate JPEG file.
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image

Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> • Instant Report (*.pdf file) in camera • Separate PC software with extensive report generation

Geographic Information System	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image

Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card



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Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB
Visual video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB

Digital camera	
Built-in digital camera	5 Mpxels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards

USB	
USB	<ul style="list-style-type: none">USB-A: Connect external USB deviceUSB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB 2.0 high speed

Video output	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible

Radio	
Wi-Fi	<ul style="list-style-type: none">Standard: 802.11 b/gFrequency range: 2412–2462 MHzMax. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger



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Website

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Customer support

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Power system	
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery (2 ea.)• Battery charger• Bluetooth headset• Calibration certificate• Extended calibration certificate• HDMI-DVI cable• HDMI-HDMI cable• Hard transport case• Lens cap• Memory card• Neck strap• Power supply, incl. multi-plugs• Printed documentation• Tripod adapter• USB cable, Std A to Mini-B
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558011911
UPC-12	845188013028
Country of origin	Sweden

Supplies & accessories:

P/N: 55903-5023

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Website

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Customer support

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- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9x (50 µm) with case
- T198060; Close-up IR lens, 5.8x (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5x (25 µm) with case
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case
- T198495; Pouch
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198496; Stylus pen
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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General description	
The FLIR T620 is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 640 × 480 pixel infrared resolution. The FLIR T620 is flexible and can meet your every need, and has extensive communication options.	
Benefits:	
<ul style="list-style-type: none"> • Highest performance with the latest technology: The FLIR T620 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. • Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views. • Extensive communication options: The Wi-Fi connectivity of the FLIR T620 allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image. • Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools. 	

Imaging and optical data	
IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<40 mK @ +30°C (+86°F)
Field of view (FOV)	15° × 11°
Minimum focus distance	0.5 m (1.64 ft.)
Focal length	41 mm (1.63 in.)
Spatial resolution (IFOV)	0.41 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Automatic (one shot) or manual
Digital zoom	1–4× continuous
Digital image enhancement	Adaptive digital noise reduction

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm



FLIR T620 15° (incl. Wi-Fi)

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Detector data	
Detector pitch	17 µm

Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none">• -40°C to +150°C (-40°F to +302°F)• +100°C to +650°C (+212°F to +1202°F)
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes or circles) with max./min./average (in post-acquisition analysis)
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets (in live images)	The user can select and combine measurements from any number of available spots/boxes/circles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava



FLIR T620 15° (incl. Wi-Fi)

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Customer support

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Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none">• Simultaneous storage of thermal and digital photo in same JPEG file.• Optional to store digital photo as a separate JPEG file.
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image

Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none">• Instant Report (*.pdf file) in camera• Separate PC software with extensive report generation

Geographic Information System	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image

Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card



FLIR T620 15° (incl. Wi-Fi)

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Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB
Visual video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB

Digital camera	
Built-in digital camera	5 Mpxels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards

USB	
USB	<ul style="list-style-type: none">USB-A: Connect external USB deviceUSB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB 2.0 high speed

Video output	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible

Radio	
Wi-Fi	<ul style="list-style-type: none">Standard: 802.11 b/gFrequency range: 2412–2462 MHzMax. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger



FLIR T620 15° (incl. Wi-Fi)

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Power system	
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery (2 ea.)• Battery charger• Bluetooth headset• Calibration certificate• Printed documentation• HDMI-DVI cable• HDMI-HDMI cable• Hard transport case• Lens cap• Memory card• Neck strap• Power supply, incl. multi-plugs• Tripod adapter• USB cable, Std A to Mini-B
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558006801
UPC-12	845188007157
Country of origin	Sweden

Supplies & accessories:

- T197914; IR lens, f=41.3 mm (15°) with case



FLIR T620 15° (incl. Wi-Fi)

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- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9x (50 µm) with case
- T198060; Close-up IR lens, 5.8x (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5x (25 µm) with case
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case
- T198495; Pouch
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in.
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198496; Stylus pen
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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Website

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Customer support

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General description

The FLIR T620 is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 640 × 480 pixel infrared resolution. The FLIR T620 is flexible and can meet your every need, and has extensive communication options.

Benefits:

- Highest performance with the latest technology: The FLIR T620 camera is equipped with the innovative “Multi Spectral Dynamic Imaging (MSX)” feature, which produces an image richer in detail than ever before.
- Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera’s capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T620 allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.
- Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools.

Imaging and optical data

IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<40 mK @ +30°C (+86°F)
Field of view (FOV)	25° × 19°
Minimum focus distance	0.25 m (0.82 ft.)
Focal length	25 mm (0.97 in.)
Spatial resolution (IFOV)	0.68 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Automatic (one shot) or manual
Digital zoom	1–4x continuous
Digital image enhancement	Adaptive digital noise reduction

Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm



FLIR T620 25° (incl. Wi-Fi and Ext. cal.)

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Detector data	
Detector pitch	17 µm

Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none">• -40°C to +150°C (-40°F to +302°F)• +100°C to +650°C (+212°F to +1202°F)
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes or circles) with max./min./average (in post-acquisition analysis)
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets (in live images)	The user can select and combine measurements from any number of available spots/boxes/circles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava



FLIR T620 25° (incl. Wi-Fi and Ext. cal.)

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Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none"> • Simultaneous storage of thermal and digital photo in same JPEG file. • Optional to store digital photo as a separate JPEG file.
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image

Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> • Instant Report (*.pdf file) in camera • Separate PC software with extensive report generation

Geographic Information System	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image

Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card



FLIR T620 25° (incl. Wi-Fi and Ext. cal.)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB
Visual video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB

Digital camera	
Built-in digital camera	5 Mpxels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards

USB	
USB	<ul style="list-style-type: none">USB-A: Connect external USB deviceUSB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB 2.0 high speed

Video output	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible

Radio	
Wi-Fi	<ul style="list-style-type: none">Standard: 802.11 b/gFrequency range: 2412–2462 MHzMax. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger



FLIR T620 25° (incl. Wi-Fi and Ext. cal.)

P/N: 55903-5125

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Power system	
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery (2 ea.)• Battery charger• Bluetooth headset• Calibration certificate• Extended calibration certificate• HDMI-DVI cable• HDMI-HDMI cable• Hard transport case• Lens cap• Memory card• Neck strap• Power supply, incl. multi-plugs• Printed documentation• Tripod adapter• USB cable, Std A to Mini-B
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558011928
UPC-12	845188013035
Country of origin	Sweden

Supplies & accessories:

P/N: 55903-5125

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- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50 µm) with case
- T198060; Close-up IR lens, 5.8× (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5× (25 µm) with case
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case
- T198495; Pouch
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198496; Stylus pen
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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Website

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Customer support

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General description

The FLIR T620 is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 640 × 480 pixel infrared resolution. The FLIR T620 is flexible and can meet your every need, and has extensive communication options.

Benefits:

- Highest performance with the latest technology: The FLIR T620 camera is equipped with the innovative “Multi Spectral Dynamic Imaging (MSX)” feature, which produces an image richer in detail than ever before.
- Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera’s capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T620 allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.
- Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools.

Imaging and optical data

IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<40 mK @ +30°C (+86°F)
Field of view (FOV)	25° × 19°
Minimum focus distance	0.25 m (0.82 ft.)
Focal length	25 mm (0.97 in.)
Spatial resolution (IFOV)	0.68 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Automatic (one shot) or manual
Digital zoom	1–4× continuous
Digital image enhancement	Adaptive digital noise reduction

Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm



FLIR T620 25° (incl. Wi-Fi)

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Detector data	
Detector pitch	17 µm

Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none">-40°C to +150°C (-40°F to +302°F)+100°C to +650°C (+212°F to +1202°F)
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes or circles) with max./min./average (in post-acquisition analysis)
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets (in live images)	The user can select and combine measurements from any number of available spots/boxes/circles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava



FLIR T620 25° (incl. Wi-Fi)

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Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none"> • Simultaneous storage of thermal and digital photo in same JPEG file. • Optional to store digital photo as a separate JPEG file.
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image

Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> • Instant Report (*.pdf file) in camera • Separate PC software with extensive report generation

Geographic Information System	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image

Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card



FLIR T620 25° (incl. Wi-Fi)

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Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB
Visual video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB

Digital camera	
Built-in digital camera	5 Mpxels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards

USB	
USB	<ul style="list-style-type: none">USB-A: Connect external USB deviceUSB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB 2.0 high speed

Video output	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible

Radio	
Wi-Fi	<ul style="list-style-type: none">Standard: 802.11 b/gFrequency range: 2412–2462 MHzMax. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger



FLIR T620 25° (incl. Wi-Fi)

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Power system	
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery (2 ea.)• Battery charger• Bluetooth headset• Calibration certificate• Printed documentation• HDMI-DVI cable• HDMI-HDMI cable• Hard transport case• Lens cap• Memory card• Neck strap• Power supply, incl. multi-plugs• Tripod adapter• USB cable, Std A to Mini-B
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558006818
UPC-12	845188007164
Country of origin	Sweden

Supplies & accessories:

- T197914; IR lens, f=41.3 mm (15°) with case



FLIR T620 25° (incl. Wi-Fi)

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- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9x (50 µm) with case
- T198060; Close-up IR lens, 5.8x (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5x (25 µm) with case
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case
- T198495; Pouch
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in.
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198496; Stylus pen
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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General description

The FLIR T620 is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 640 × 480 pixel infrared resolution. The FLIR T620 is flexible and can meet your every need, and has extensive communication options.

Benefits:

- Highest performance with the latest technology: The FLIR T620 camera is equipped with the innovative “Multi Spectral Dynamic Imaging (MSX)” feature, which produces an image richer in detail than ever before.
- Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera’s capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T620 allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.
- Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools.

Imaging and optical data

IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<40 mK @ +30°C (+86°F)
Field of view (FOV)	25° × 19°
Minimum focus distance	0.25 m (0.82 ft.)
Focal length	25 mm (0.97 in.)
Spatial resolution (IFOV)	0.68 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Automatic (one shot) or manual
Digital zoom	1–4× continuous
Digital image enhancement	Adaptive digital noise reduction

Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm



FLIR T620 25° and 15° (incl. Wi-Fi)

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Detector data	
Detector pitch	17 µm

Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none">-40°C to +150°C (-40°F to +302°F)+100°C to +650°C (+212°F to +1202°F)
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes or circles) with max./min./average (in post-acquisition analysis)
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets (in live images)	The user can select and combine measurements from any number of available spots/boxes/circles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava



FLIR T620 25° and 15° (incl. Wi-Fi)

P/N: 55903-5123

Revision

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none">• Simultaneous storage of thermal and digital photo in same JPEG file.• Optional to store digital photo as a separate JPEG file.
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image

Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none">• Instant Report (*.pdf file) in camera• Separate PC software with extensive report generation

Geographic Information System	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image

Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card



FLIR T620 25° and 15° (incl. Wi-Fi)

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Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB
Visual video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB

Digital camera	
Built-in digital camera	5 Mpxels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards

USB	
USB	<ul style="list-style-type: none">USB-A: Connect external USB deviceUSB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB 2.0 high speed

Video output	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible

Radio	
Wi-Fi	<ul style="list-style-type: none">Standard: 802.11 b/gFrequency range: 2412–2462 MHzMax. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger



FLIR T620 25° and 15° (incl. Wi-Fi)

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Power system	
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)

Environmental data	
Operating temperature range	-15°C to +50°C (+5°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery (2 ea.)• Battery charger• Bluetooth headset• Calibration certificate• HDMI-DVI cable• HDMI-HDMI cable• Hard transport case• IR lens, 15°• Lens cap• Memory card• Neck strap• Power supply, incl. multi-plugs• Printed documentation• Tripod adapter• USB cable, Std A to Mini-B
Packaging, weight	5.7 kg (12.5 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558011249
UPC-12	845188012120
Country of origin	Sweden

Supplies & accessories:

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- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50 µm) with case
- T198060; Close-up IR lens, 5.8× (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5× (25 µm) with case
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case
- T198495; Pouch
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198496; Stylus pen
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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General description

The FLIR T620 is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 640 × 480 pixel infrared resolution. The FLIR T620 is flexible and can meet your every need, and has extensive communication options.

Benefits:

- Highest performance with the latest technology: The FLIR T620 camera is equipped with the innovative “Multi Spectral Dynamic Imaging (MSX)” feature, which produces an image richer in detail than ever before.
- Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera’s capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T620 allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.
- Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools.

Imaging and optical data

IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<40 mK @ +30°C (+86°F)
Field of view (FOV)	25° × 19°
Minimum focus distance	0.25 m (0.82 ft.)
Focal length	25 mm (0.97 in.)
Spatial resolution (IFOV)	0.68 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Automatic (one shot) or manual
Digital zoom	1–4× continuous
Digital image enhancement	Adaptive digital noise reduction

Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm



FLIR T620 25° and 45° (incl. Wi-Fi)

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Detector data	
Detector pitch	17 µm

Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none">-40°C to +150°C (-40°F to +302°F)+100°C to +650°C (+212°F to +1202°F)
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes or circles) with max./min./average (in post-acquisition analysis)
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets (in live images)	The user can select and combine measurements from any number of available spots/boxes/circles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava



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Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none">• Simultaneous storage of thermal and digital photo in same JPEG file.• Optional to store digital photo as a separate JPEG file.
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image

Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none">• Instant Report (*.pdf file) in camera• Separate PC software with extensive report generation

Geographic Information System	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image

Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card



FLIR T620 25° and 45° (incl. Wi-Fi)

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Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB
Visual video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB

Digital camera	
Built-in digital camera	5 Mpxels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards

USB	
USB	<ul style="list-style-type: none">USB-A: Connect external USB deviceUSB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB 2.0 high speed

Video output	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible

Radio	
Wi-Fi	<ul style="list-style-type: none">Standard: 802.11 b/gFrequency range: 2412–2462 MHzMax. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger



FLIR T620 25° and 45° (incl. Wi-Fi)

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Website

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Power system	
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery (2 ea.)• Battery charger• Bluetooth headset• Calibration certificate• HDMI-DVI cable• HDMI-HDMI cable• Hard transport case• IR lens, 45°• Lens cap• Memory card• Neck strap• Power supply, incl. multi-plugs• Printed documentation• Tripod adapter• USB cable, Std A to Mini-B
Packaging, weight	5.7 kg (12.5 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558011256
UPC-12	845188012137
Country of origin	Sweden

Supplies & accessories:

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- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50 µm) with case
- T198060; Close-up IR lens, 5.8× (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5× (25 µm) with case
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case
- T198495; Pouch
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198496; Stylus pen
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
The FLIR T620 is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 640 × 480 pixel infrared resolution. The FLIR T620 is flexible and can meet your every need, and has extensive communication options.	
Benefits:	
<ul style="list-style-type: none"> • Highest performance with the latest technology: The FLIR T620 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. • Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views. • Extensive communication options: The Wi-Fi connectivity of the FLIR T620 allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image. • Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools. 	

Imaging and optical data	
IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<40 mK @ +30°C (+86°F)
Field of view (FOV)	45° × 34°
Minimum focus distance	0.15 m (0.49 ft.)
Focal length	13 mm (0.52 in.)
Spatial resolution (IFOV)	1.30 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Automatic (one shot) or manual
Digital zoom	1–4× continuous
Digital image enhancement	Adaptive digital noise reduction

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm



FLIR T620 45° (incl. Wi-Fi and Ext. cal.)

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Detector data	
Detector pitch	17 µm

Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none">• -40°C to +150°C (-40°F to +302°F)• +100°C to +650°C (+212°F to +1202°F)
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes or circles) with max./min./average (in post-acquisition analysis)
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets (in live images)	The user can select and combine measurements from any number of available spots/boxes/circles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava



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Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none"> Simultaneous storage of thermal and digital photo in same JPEG file. Optional to store digital photo as a separate JPEG file.
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image

Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> Instant Report (*.pdf file) in camera Separate PC software with extensive report generation

Geographic Information System	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image

Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card



FLIR T620 45° (incl. Wi-Fi and Ext. cal.)

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Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB
Visual video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB

Digital camera	
Built-in digital camera	5 Mpxels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards

USB	
USB	<ul style="list-style-type: none">USB-A: Connect external USB deviceUSB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB 2.0 high speed

Video output	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible

Radio	
Wi-Fi	<ul style="list-style-type: none">Standard: 802.11 b/gFrequency range: 2412–2462 MHzMax. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger



FLIR T620 45° (incl. Wi-Fi and Ext. cal.)

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Power system	
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)

Environmental data	
Operating temperature range	-15°C to +50°C (+5°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery (2 ea.)• Battery charger• Bluetooth headset• Calibration certificate• Extended calibration certificate• HDMI-DVI cable• HDMI-HDMI cable• Hard transport case• Lens cap• Memory card• Neck strap• Power supply, incl. multi-plugs• Printed documentation• Tripod adapter• USB cable, Std A to Mini-B
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558011935
UPC-12	845188013042
Country of origin	Sweden

Supplies & accessories:

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- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50 µm) with case
- T198060; Close-up IR lens, 5.8× (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5× (25 µm) with case
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case
- T198495; Pouch
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198496; Stylus pen
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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General description

The FLIR T620 is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 640 × 480 pixel infrared resolution. The FLIR T620 is flexible and can meet your every need, and has extensive communication options.

Benefits:

- Highest performance with the latest technology: The FLIR T620 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before.
- Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T620 allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.
- Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools.

Imaging and optical data

IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<40 mK @ +30°C (+86°F)
Field of view (FOV)	45° × 34°
Minimum focus distance	0.15 m (0.49 ft.)
Focal length	13 mm (0.52 in.)
Spatial resolution (IFOV)	1.30 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Automatic (one shot) or manual
Digital zoom	1–4× continuous
Digital image enhancement	Adaptive digital noise reduction

Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm



FLIR T620 45° (incl. Wi-Fi)

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Customer support

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Detector data	
Detector pitch	17 µm

Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none">• -40°C to +150°C (-40°F to +302°F)• +100°C to +650°C (+212°F to +1202°F)
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes or circles) with max./min./average (in post-acquisition analysis)
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets (in live images)	The user can select and combine measurements from any number of available spots/boxes/circles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava



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Website

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Customer support

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Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none"> • Simultaneous storage of thermal and digital photo in same JPEG file. • Optional to store digital photo as a separate JPEG file.
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image

Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> • Instant Report (*.pdf file) in camera • Separate PC software with extensive report generation

Geographic Information System	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image

Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card



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Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB
Visual video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB

Digital camera	
Built-in digital camera	5 Mpxels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards

USB	
USB	<ul style="list-style-type: none">USB-A: Connect external USB deviceUSB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB 2.0 high speed

Video output	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible

Radio	
Wi-Fi	<ul style="list-style-type: none">Standard: 802.11 b/gFrequency range: 2412–2462 MHzMax. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger

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Website

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Customer support

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Power system	
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none"> • ETSI EN 301 489-1 (radio) • ETSI EN 301 489-17 • EN 61000-6-2 (Immunity) • EN 61000-6-3 (Emission) • FCC 47 CFR Part 15 Class B (Emission) • ICES-003
Radio spectrum	<ul style="list-style-type: none"> • ETSI EN 300 328 • FCC Part 15.247 • RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Infrared camera with lens • Battery (2 ea.) • Battery charger • Bluetooth headset • Calibration certificate • Printed documentation • HDMI-DVI cable • HDMI-HDMI cable • Hard transport case • Lens cap • Memory card • Neck strap • Power supply, incl. multi-plugs • Tripod adapter • USB cable, Std A to Mini-B
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558006825
UPC-12	845188007171
Country of origin	Sweden

Supplies & accessories:

- T197914; IR lens, f=41.3 mm (15°) with case



FLIR T620 45° (incl. Wi-Fi)

P/N: 55903-5222

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9x (50 µm) with case
- T198060; Close-up IR lens, 5.8x (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5x (25 µm) with case
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case
- T198495; Pouch
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in.
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198496; Stylus pen
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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Website

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General description

The FLIR T620bx is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 640 × 480 pixel infrared resolution. The FLIR T620bx is flexible and can meet your every need, and has extensive communication options.

Benefits:

- Highest performance with the latest technology: The FLIR T620bx is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before.
- Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T620bx allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLINK function transfers readings from external measurement instruments to the infrared image.
- Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools.

Imaging and optical data

IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<30 mK @ +30°C (+86°F)
Field of view (FOV)	15° × 11°
Minimum focus distance	0.5 m (1.64 ft.)
Focal length	41 mm (1.63 in.)
Spatial resolution (IFOV)	0.41 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Automatic (one shot) or manual
Digital zoom	1–4× continuous
Digital image enhancement	Adaptive digital noise reduction

Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm



FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)

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Detector data	
Detector pitch	17 µm

Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none">• -40°C to +150°C (-40°F to +302°F)• +100°C to +650°C (+212°F to +1202°F)
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes or circles) with max./min./average (in post-acquisition analysis)
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets (in live images)	The user can select and combine measurements from any number of available spots/boxes/circles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava



FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)

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Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible
Humidity alarm	1 humidity alarm, including dew point alarm
Insulation alarm	1 insulation alarm

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none">• Simultaneous storage of thermal and digital photo in same JPEG file.• Optional to store digital photo as a separate JPEG file.
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image

Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLINK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none">• Instant Report (*.pdf file) in camera• Separate PC software with extensive report generation

Geographic Information System	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image

Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card



FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)

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Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB
Visual video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB

Digital camera	
Built-in digital camera	5 Mpxels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards

USB	
USB	<ul style="list-style-type: none">USB-A: Connect external USB deviceUSB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB 2.0 high speed

Video output	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible

Radio	
Wi-Fi	<ul style="list-style-type: none">Standard: 802.11 b/gFrequency range: 2412–2462 MHzMax. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger



FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)

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Power system	
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery (2 ea.)• Battery charger• Bluetooth headset• Calibration certificate• Extended calibration certificate• HDMI-DVI cable• HDMI-HDMI cable• Hard transport case• Lens cap• Memory card• Neck strap• Power supply, incl. multi-plugs• Printed documentation• Tripod adapter• USB cable, Std A to Mini-B
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558011942
UPC-12	845188013059
Country of origin	Sweden

Supplies & accessories:

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Customer support

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- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9x (50 µm) with case
- T198060; Close-up IR lens, 5.8x (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5x (25 µm) with case
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case
- T198495; Pouch
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198496; Stylus pen
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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General description

The FLIR T620bx is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 640 × 480 pixel infrared resolution. The FLIR T620bx is flexible and can meet your every need, and has extensive communication options.

Benefits:

- Highest performance with the latest technology: The FLIR T620bx is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before.
- Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T620bx allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLINK function transfers readings from external measurement instruments to the infrared image.
- Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools.

Imaging and optical data

IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<30 mK @ +30°C (+86°F)
Field of view (FOV)	15° × 11°
Minimum focus distance	0.5 m (1.64 ft.)
Focal length	41 mm (1.63 in.)
Spatial resolution (IFOV)	0.41 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Automatic (one shot) or manual
Digital zoom	1–4× continuous
Digital image enhancement	Adaptive digital noise reduction

Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm



FLIR T620bx 15° (incl. Wi-Fi)

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Website

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Customer support

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Detector data	
Detector pitch	17 µm

Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none">• -40°C to +150°C (-40°F to +302°F)• +100°C to +650°C (+212°F to +1202°F)
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes or circles) with max./min./average (in post-acquisition analysis)
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets (in live images)	The user can select and combine measurements from any number of available spots/boxes/circles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava



FLIR T620bx 15° (incl. Wi-Fi)

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible
Humidity alarm	1 humidity alarm, including dew point alarm
Insulation alarm	1 insulation alarm

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none">• Simultaneous storage of thermal and digital photo in same JPEG file.• Optional to store digital photo as a separate JPEG file.
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image

Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLINK	Wireless connection (Bluetooth) to: FLIR meters with METERLINK
Report generation	<ul style="list-style-type: none">• Instant Report (*.pdf file) in camera• Separate PC software with extensive report generation

Geographic Information System	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image

Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card



FLIR T620bx 15° (incl. Wi-Fi)

P/N: 55903-5622

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none">• MPEG-4 using Wi-Fi• Uncompressed colorized video using USB
Visual video streaming	<ul style="list-style-type: none">• MPEG-4 using Wi-Fi• Uncompressed colorized video using USB

Digital camera	
Built-in digital camera	5 Mpxels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards

USB	
USB	<ul style="list-style-type: none">• USB-A: Connect external USB device• USB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB 2.0 high speed

Video output	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible

Radio	
Wi-Fi	<ul style="list-style-type: none">• Standard: 802.11 b/g• Frequency range: 2412–2462 MHz• Max. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger



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Power system	
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery (2 ea.)• Battery charger• Bluetooth headset• Calibration certificate• Printed documentation• HDMI-DVI cable• HDMI-HDMI cable• Hard transport case• Lens cap• Memory card• Neck strap• Power supply, incl. multi-plugs• Tripod adapter• USB cable, Std A to Mini-B
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558006863
UPC-12	845188007218
Country of origin	Sweden

Supplies & accessories:

- T197914; IR lens, f=41.3 mm (15°) with case



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- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9x (50 µm) with case
- T198060; Close-up IR lens, 5.8x (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5x (25 µm) with case
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case
- T198495; Pouch
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in.
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198496; Stylus pen
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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General description	
<p>The FLIR T620bx is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 640 × 480 pixel infrared resolution. The FLIR T620bx is flexible and can meet your every need, and has extensive communication options.</p>	
Benefits:	
<ul style="list-style-type: none"> • Highest performance with the latest technology: The FLIR T620bx is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. • Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views. • Extensive communication options: The Wi-Fi connectivity of the FLIR T620bx allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLINK function transfers readings from external measurement instruments to the infrared image. • Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools. 	

Imaging and optical data	
IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<30 mK @ +30°C (+86°F)
Field of view (FOV)	25° × 19°
Minimum focus distance	0.25 m (0.82 ft.)
Focal length	25 mm (0.97 in.)
Spatial resolution (IFOV)	0.68 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Automatic (one shot) or manual
Digital zoom	1–4× continuous
Digital image enhancement	Adaptive digital noise reduction

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm



FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)

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Detector data	
Detector pitch	17 µm

Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none">• -40°C to +150°C (-40°F to +302°F)• +100°C to +650°C (+212°F to +1202°F)
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes or circles) with max./min./average (in post-acquisition analysis)
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets (in live images)	The user can select and combine measurements from any number of available spots/boxes/circles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava



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Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible
Humidity alarm	1 humidity alarm, including dew point alarm
Insulation alarm	1 insulation alarm

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none">• Simultaneous storage of thermal and digital photo in same JPEG file.• Optional to store digital photo as a separate JPEG file.
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image

Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLINK	Wireless connection (Bluetooth) to: FLIR meters with METERLINK
Report generation	<ul style="list-style-type: none">• Instant Report (*.pdf file) in camera• Separate PC software with extensive report generation

Geographic Information System	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image

Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card



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Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none">• MPEG-4 using Wi-Fi• Uncompressed colorized video using USB
Visual video streaming	<ul style="list-style-type: none">• MPEG-4 using Wi-Fi• Uncompressed colorized video using USB

Digital camera	
Built-in digital camera	5 Mpxels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards

USB	
USB	<ul style="list-style-type: none">• USB-A: Connect external USB device• USB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB 2.0 high speed

Video output	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible

Radio	
Wi-Fi	<ul style="list-style-type: none">• Standard: 802.11 b/g• Frequency range: 2412–2462 MHz• Max. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger



FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)

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Power system	
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery (2 ea.)• Battery charger• Bluetooth headset• Calibration certificate• Extended calibration certificate• HDMI-DVI cable• HDMI-HDMI cable• Hard transport case• Lens cap• Memory card• Neck strap• Power supply, incl. multi-plugs• Printed documentation• Tripod adapter• USB cable, Std A to Mini-B
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558011959
UPC-12	845188013066
Country of origin	Sweden

Supplies & accessories:



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- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9x (50 µm) with case
- T198060; Close-up IR lens, 5.8x (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5x (25 µm) with case
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case
- T198495; Pouch
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198496; Stylus pen
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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General description

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Benefits:

- Highest performance with the latest technology: The FLIR T620bx is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before.
- Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T620bx allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLINK function transfers readings from external measurement instruments to the infrared image.
- Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools.

Imaging and optical data

IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<30 mK @ +30°C (+86°F)
Field of view (FOV)	25° × 19°
Minimum focus distance	0.25 m (0.82 ft.)
Focal length	25 mm (0.97 in.)
Spatial resolution (IFOV)	0.68 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Automatic (one shot) or manual
Digital zoom	1–4× continuous
Digital image enhancement	Adaptive digital noise reduction

Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm



FLIR T620bx 25° (incl. Wi-Fi)

P/N: 55903-5722

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Detector data	
Detector pitch	17 µm

Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none"> -40°C to +150°C (-40°F to +302°F) +100°C to +650°C (+212°F to +1202°F)
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes or circles) with max./min./average (in post-acquisition analysis)
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets (in live images)	The user can select and combine measurements from any number of available spots/boxes/circles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava



FLIR T620bx 25° (incl. Wi-Fi)

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Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible
Humidity alarm	1 humidity alarm, including dew point alarm
Insulation alarm	1 insulation alarm

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none">• Simultaneous storage of thermal and digital photo in same JPEG file.• Optional to store digital photo as a separate JPEG file.
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image

Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLINK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none">• Instant Report (*.pdf file) in camera• Separate PC software with extensive report generation

Geographic Information System	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image

Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card



FLIR T620bx 25° (incl. Wi-Fi)

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Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB
Visual video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB

Digital camera	
Built-in digital camera	5 Mpxels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards

USB	
USB	<ul style="list-style-type: none">USB-A: Connect external USB deviceUSB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB 2.0 high speed

Video output	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible

Radio	
Wi-Fi	<ul style="list-style-type: none">Standard: 802.11 b/gFrequency range: 2412–2462 MHzMax. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger



FLIR T620bx 25° (incl. Wi-Fi)

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Power system	
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery (2 ea.)• Battery charger• Bluetooth headset• Calibration certificate• Printed documentation• HDMI-DVI cable• HDMI-HDMI cable• Hard transport case• Lens cap• Memory card• Neck strap• Power supply, incl. multi-plugs• Tripod adapter• USB cable, Std A to Mini-B
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558006870
UPC-12	845188007225
Country of origin	Sweden

Supplies & accessories:

- T197914; IR lens, f=41.3 mm (15°) with case



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- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9x (50 µm) with case
- T198060; Close-up IR lens, 5.8x (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5x (25 µm) with case
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case
- T198495; Pouch
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in.
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198496; Stylus pen
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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General description

The FLIR T620bx is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 640 × 480 pixel infrared resolution. The FLIR T620bx is flexible and can meet your every need, and has extensive communication options.

Benefits:

- Highest performance with the latest technology: The FLIR T620bx is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before.
- Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T620bx allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.
- Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools.

Imaging and optical data

IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<30 mK @ +30°C (+86°F)
Field of view (FOV)	45° × 34°
Minimum focus distance	0.15 m (0.49 ft.)
Focal length	13 mm (0.52 in.)
Spatial resolution (IFOV)	1.30 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Automatic (one shot) or manual
Digital zoom	1–4× continuous
Digital image enhancement	Adaptive digital noise reduction

Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm



FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)

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Website

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Customer support

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Detector data	
Detector pitch	17 µm

Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none"> • -40°C to +150°C (-40°F to +302°F) • +100°C to +650°C (+212°F to +1202°F)
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes or circles) with max./min./average (in post-acquisition analysis)
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets (in live images)	The user can select and combine measurements from any number of available spots/boxes/circles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava



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Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible
Humidity alarm	1 humidity alarm, including dew point alarm
Insulation alarm	1 insulation alarm

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none">• Simultaneous storage of thermal and digital photo in same JPEG file.• Optional to store digital photo as a separate JPEG file.
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image

Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLINK	Wireless connection (Bluetooth) to: FLIR meters with METERLINK
Report generation	<ul style="list-style-type: none">• Instant Report (*.pdf file) in camera• Separate PC software with extensive report generation

Geographic Information System	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image

Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card



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Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB
Visual video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB

Digital camera	
Built-in digital camera	5 Mpxels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards

USB	
USB	<ul style="list-style-type: none">USB-A: Connect external USB deviceUSB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB 2.0 high speed

Video output	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible

Radio	
Wi-Fi	<ul style="list-style-type: none">Standard: 802.11 b/gFrequency range: 2412–2462 MHzMax. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger



FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)

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Website

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Customer support

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Power system	
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery (2 ea.)• Battery charger• Bluetooth headset• Calibration certificate• Extended calibration certificate• HDMI-DVI cable• HDMI-HDMI cable• Hard transport case• Lens cap• Memory card• Neck strap• Power supply, incl. multi-plugs• Printed documentation• Tripod adapter• USB cable, Std A to Mini-B
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558011966
UPC-12	845188013073
Country of origin	Sweden

Supplies & accessories:



FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)

P/N: 55903-5823

Revision

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Website

<http://www.flir.com>

Customer support

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- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9x (50 µm) with case
- T198060; Close-up IR lens, 5.8x (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5x (25 µm) with case
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case
- T198495; Pouch
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198496; Stylus pen
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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General description

The FLIR T620bx is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 640 × 480 pixel infrared resolution. The FLIR T620bx is flexible and can meet your every need, and has extensive communication options.

Benefits:

- Highest performance with the latest technology: The FLIR T620bx is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before.
- Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T620bx allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLINK function transfers readings from external measurement instruments to the infrared image.
- Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools.

Imaging and optical data

IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<30 mK @ +30°C (+86°F)
Field of view (FOV)	45° × 34°
Minimum focus distance	0.15 m (0.49 ft.)
Focal length	13 mm (0.52 in.)
Spatial resolution (IFOV)	1.30 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Automatic (one shot) or manual
Digital zoom	1–4× continuous
Digital image enhancement	Adaptive digital noise reduction

Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm



FLIR T620bx 45° (incl. Wi-Fi)

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Detector data	
Detector pitch	17 µm

Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none">• -40°C to +150°C (-40°F to +302°F)• +100°C to +650°C (+212°F to +1202°F)
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes or circles) with max./min./average (in post-acquisition analysis)
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets (in live images)	The user can select and combine measurements from any number of available spots/boxes/circles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava



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Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible
Humidity alarm	1 humidity alarm, including dew point alarm
Insulation alarm	1 insulation alarm

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none">• Simultaneous storage of thermal and digital photo in same JPEG file.• Optional to store digital photo as a separate JPEG file.
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image

Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLINK	Wireless connection (Bluetooth) to: FLIR meters with METERLINK
Report generation	<ul style="list-style-type: none">• Instant Report (*.pdf file) in camera• Separate PC software with extensive report generation

Geographic Information System	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image

Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card



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Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB
Visual video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB

Digital camera	
Built-in digital camera	5 Mpxels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards

USB	
USB	<ul style="list-style-type: none">USB-A: Connect external USB deviceUSB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB 2.0 high speed

Video output	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible

Radio	
Wi-Fi	<ul style="list-style-type: none">Standard: 802.11 b/gFrequency range: 2412–2462 MHzMax. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger



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Power system	
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery (2 ea.)• Battery charger• Bluetooth headset• Calibration certificate• Printed documentation• HDMI-DVI cable• HDMI-HDMI cable• Hard transport case• Lens cap• Memory card• Neck strap• Power supply, incl. multi-plugs• Tripod adapter• USB cable, Std A to Mini-B
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558006887
UPC-12	845188007232
Country of origin	Sweden

Supplies & accessories:

- T197914; IR lens, f=41.3 mm (15°) with case



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- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9x (50 µm) with case
- T198060; Close-up IR lens, 5.8x (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5x (25 µm) with case
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case
- T198495; Pouch
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in.
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198496; Stylus pen
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
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- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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General description	
The FLIR T630 is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 640 × 480 pixel infrared resolution. The FLIR T630 is flexible and can meet your every need, and has extensive communication options.	
Benefits:	
<ul style="list-style-type: none"> • Highest performance with the latest technology: The FLIR T630 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. • Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views. • Extensive communication options: The Wi-Fi connectivity of the FLIR T630 allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image. • Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools. 	

Imaging and optical data	
IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<40 mK @ +30°C (+86°F)
Field of view (FOV)	15° × 11°
Minimum focus distance	0.5 m (1.64 ft.)
Focal length	41 mm (1.63 in.)
Spatial resolution (IFOV)	0.41 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Automatic (one shot) or manual
Digital zoom	1–8× continuous
Digital image enhancement	Adaptive digital noise reduction

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm

Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen



FLIR T630 15° (incl. Wi-Fi)

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Image presentation	
Auto orientation	Automatic landscape or portrait
Viewfinder	Built-in 800 × 480 pixels
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none">-40°C to +150°C (-40°F to +302°F)+100°C to +650°C (+212°F to +1202°F)
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.

Measurement analysis	
Spotmeter	5
Area	5 + 5 areas (boxes or circles) with max./min./average (in post-acquisition analysis)
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets (in live images)	The user can select and combine measurements from any number of available spots/boxes/circles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava

Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function



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Alarm	
Screening	Difference temperature alarm, audible

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none"> Simultaneous storage of thermal and digital photo in same JPEG file. Optional to store digital photo as a separate JPEG file.
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image

Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> Instant Report (*.pdf file) in camera Separate PC software with extensive report generation

Geographic Information System	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image

Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card

Video streaming	
Non-radiometric IR video streaming	<ul style="list-style-type: none"> MPEG-4 using Wi-Fi Uncompressed colorized video using USB
Visual video streaming	<ul style="list-style-type: none"> MPEG-4 using Wi-Fi Uncompressed colorized video using USB



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Digital camera	
Built-in digital camera	5 Mpixels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards

USB	
USB	<ul style="list-style-type: none">USB-A: Connect external USB deviceUSB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB 2.0 high speed

Video output	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible

Radio	
Wi-Fi	<ul style="list-style-type: none">Standard: 802.11 b/gFrequency range: 2412–2462 MHzMax. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)

Environmental data	
Operating temperature range	-15°C to +50°C (+5°F to +122°F)



FLIR T630 15° (incl. Wi-Fi)

P/N: 55904-6222

Revision

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Environmental data	
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery (2 ea.)• Battery charger• Bluetooth headset• Calibration certificate• Printed documentation• HDMI-DVI cable• HDMI-HDMI cable• Hard transport case• Large eyecap• Lens cap• Memory card• Neck strap• Power supply, incl. multi-plugs• Tripod adapter• USB cable, Std A to Mini-B
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558006924
UPC-12	845188007270
Country of origin	Sweden

Supplies & accessories:

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50 µm) with case
- T198060; Close-up IR lens, 5.8× (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5× (25 µm) with case
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB



FLIR T630 15° (incl. Wi-Fi)

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Website

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Customer support

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- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case
- T198495; Pouch
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198496; Stylus pen
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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General description	
The FLIR T630 is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 640 × 480 pixel infrared resolution. The FLIR T630 is flexible and can meet your every need, and has extensive communication options.	
Benefits:	
<ul style="list-style-type: none"> • Highest performance with the latest technology: The FLIR T630 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. • Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views. • Extensive communication options: The Wi-Fi connectivity of the FLIR T630 allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image. • Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools. 	

Imaging and optical data	
IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<40 mK @ +30°C (+86°F)
Field of view (FOV)	25° × 19°
Minimum focus distance	0.25 m (0.82 ft.)
Focal length	25 mm (0.97 in.)
Spatial resolution (IFOV)	0.68 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Automatic (one shot) or manual
Digital zoom	1–8× continuous
Digital image enhancement	Adaptive digital noise reduction

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm

Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen



FLIR T630 25° (incl. Wi-Fi)

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Image presentation	
Auto orientation	Automatic landscape or portrait
Viewfinder	Built-in 800 × 480 pixels
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none">-40°C to +150°C (-40°F to +302°F)+100°C to +650°C (+212°F to +1202°F)
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.

Measurement analysis	
Spotmeter	5
Area	5 + 5 areas (boxes or circles) with max./min./average (in post-acquisition analysis)
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets (in live images)	The user can select and combine measurements from any number of available spots/boxes/circles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava

Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function



FLIR T630 25° (incl. Wi-Fi)

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Alarm	
Screening	Difference temperature alarm, audible

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none"> Simultaneous storage of thermal and digital photo in same JPEG file. Optional to store digital photo as a separate JPEG file.
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image

Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> Instant Report (*.pdf file) in camera Separate PC software with extensive report generation

Geographic Information System	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image

Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card

Video streaming	
Non-radiometric IR video streaming	<ul style="list-style-type: none"> MPEG-4 using Wi-Fi Uncompressed colorized video using USB
Visual video streaming	<ul style="list-style-type: none"> MPEG-4 using Wi-Fi Uncompressed colorized video using USB



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Digital camera	
Built-in digital camera	5 Mpixels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards

USB	
USB	<ul style="list-style-type: none">USB-A: Connect external USB deviceUSB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB 2.0 high speed

Video output	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible

Radio	
Wi-Fi	<ul style="list-style-type: none">Standard: 802.11 b/gFrequency range: 2412–2462 MHzMax. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)

Environmental data	
Operating temperature range	-15°C to +50°C (+5°F to +122°F)

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Customer support

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Environmental data	
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none"> • ETSI EN 301 489-1 (radio) • ETSI EN 301 489-17 • EN 61000-6-2 (Immunity) • EN 61000-6-3 (Emission) • FCC 47 CFR Part 15 Class B (Emission) • ICES-003
Radio spectrum	<ul style="list-style-type: none"> • ETSI EN 300 328 • FCC Part 15.247 • RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Infrared camera with lens • Battery (2 ea.) • Battery charger • Bluetooth headset • Calibration certificate • Printed documentation • HDMI-DVI cable • HDMI-HDMI cable • Hard transport case • Large eyecap • Lens cap • Memory card • Neck strap • Power supply, incl. multi-plugs • Tripod adapter • USB cable, Std A to Mini-B
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558006931
UPC-12	845188007287
Country of origin	Sweden

Supplies & accessories:

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50 µm) with case
- T198060; Close-up IR lens, 5.8× (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5× (25 µm) with case
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB



FLIR T630 25° (incl. Wi-Fi)

P/N: 55904-6322

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- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case
- T198495; Pouch
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198496; Stylus pen
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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General description	
The FLIR T630 is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 640 × 480 pixel infrared resolution. The FLIR T630 is flexible and can meet your every need, and has extensive communication options.	
Benefits:	
<ul style="list-style-type: none"> • Highest performance with the latest technology: The FLIR T630 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. • Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views. • Extensive communication options: The Wi-Fi connectivity of the FLIR T630 allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image. • Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools. 	

Imaging and optical data	
IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<40 mK @ +30°C (+86°F)
Field of view (FOV)	45° × 34°
Minimum focus distance	0.15 m (0.49 ft.)
Focal length	13 mm (0.52 in.)
Spatial resolution (IFOV)	1.30 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Automatic (one shot) or manual
Digital zoom	1–8× continuous
Digital image enhancement	Adaptive digital noise reduction

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm

Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen



FLIR T630 45° (incl. Wi-Fi)

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Image presentation	
Auto orientation	Automatic landscape or portrait
Viewfinder	Built-in 800 × 480 pixels
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none">• -40°C to +150°C (-40°F to +302°F)• +100°C to +650°C (+212°F to +1202°F)
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.

Measurement analysis	
Spotmeter	5
Area	5 + 5 areas (boxes or circles) with max./min./average (in post-acquisition analysis)
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets (in live images)	The user can select and combine measurements from any number of available spots/boxes/circles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava

Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function



FLIR T630 45° (incl. Wi-Fi)

P/N: 55904-6422

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Alarm	
Screening	Difference temperature alarm, audible

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none"> Simultaneous storage of thermal and digital photo in same JPEG file. Optional to store digital photo as a separate JPEG file.
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image

Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> Instant Report (*.pdf file) in camera Separate PC software with extensive report generation

Geographic Information System	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image

Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card

Video streaming	
Non-radiometric IR video streaming	<ul style="list-style-type: none"> MPEG-4 using Wi-Fi Uncompressed colorized video using USB
Visual video streaming	<ul style="list-style-type: none"> MPEG-4 using Wi-Fi Uncompressed colorized video using USB



FLIR T630 45° (incl. Wi-Fi)

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Digital camera	
Built-in digital camera	5 Mpixels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards

USB	
USB	<ul style="list-style-type: none">• USB-A: Connect external USB device• USB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB 2.0 high speed

Video output	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible

Radio	
Wi-Fi	<ul style="list-style-type: none">• Standard: 802.11 b/g• Frequency range: 2412–2462 MHz• Max. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)

Environmental data	
Operating temperature range	-15°C to +50°C (+5°F to +122°F)



FLIR T630 45° (incl. Wi-Fi)

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Environmental data	
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none"> • ETSI EN 301 489-1 (radio) • ETSI EN 301 489-17 • EN 61000-6-2 (Immunity) • EN 61000-6-3 (Emission) • FCC 47 CFR Part 15 Class B (Emission) • ICES-003
Radio spectrum	<ul style="list-style-type: none"> • ETSI EN 300 328 • FCC Part 15.247 • RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L x W x H)	143 x 195 x 95 mm (5.6 x 7.7 x 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Infrared camera with lens • Battery (2 ea.) • Battery charger • Bluetooth headset • Calibration certificate • Printed documentation • HDMI-DVI cable • HDMI-HDMI cable • Hard transport case • Large eyecap • Lens cap • Memory card • Neck strap • Power supply, incl. multi-plugs • Tripod adapter • USB cable, Std A to Mini-B
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 x 192 x 370 mm (19.49 x 7.56 x 14.57 in.)
EAN-13	7332558006948
UPC-12	845188007294
Country of origin	Sweden

Supplies & accessories:

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9x (50 µm) with case
- T198060; Close-up IR lens, 5.8x (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5x (25 µm) with case
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB



FLIR T630 45° (incl. Wi-Fi)

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Website

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Customer support

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- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case
- T198495; Pouch
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198496; Stylus pen
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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General description	
The FLIR T630sc is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and feature-rich flexibility with superior image quality of 640 × 480 pixel infrared resolution. High accuracy and sensitivity together with streaming options make the FLIR T630sc well suited for advanced research and development.	
Benefits:	
<ul style="list-style-type: none"> • Tailor made for research and development: The FLIR T630sc has high accuracy and high sensitivity to accurately measure the smallest temperature differences. • Flexible and feature rich: A wide variety of measuring and analysis functions makes the camera flexible and able to meet your every need. A programmable button provides easy access to favorite functions. • Highest performance with the latest technology: The FLIR T630sc is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. Continuous auto-focus makes the FLIR T630sc the first fully automatic infrared camera on the market. • Extensive communication options: The Wi-Fi connectivity of the FLIR T630sc allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image. • Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools. 	
Imaging and optical data	
IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<30 mK @ +30°C (+86°F)
Field of view (FOV)	15° × 11°
Minimum focus distance	0.5 m (1.64 ft.)
Focal length	41 mm (1.63 in.)
Spatial resolution (IFOV)	0.41 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Automatic (one shot) or manual
Digital zoom	1–4x continuous
Digital image enhancement	Adaptive digital noise reduction
Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer



FLIR T630sc 15° (incl. Wi-Fi)

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Detector data	
Spectral range	7.5–14 μm
Detector pitch	17 μm

Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none">• -40°C to $+150^{\circ}\text{C}$ (-40°F to $+302^{\circ}\text{F}$)• $+100^{\circ}\text{C}$ to $+650^{\circ}\text{C}$ ($+212^{\circ}\text{F}$ to $+1202^{\circ}\text{F}$)
Accuracy	<ul style="list-style-type: none">• $\pm 1^{\circ}\text{C}$ ($\pm 1.8^{\circ}\text{F}$) or $\pm 1\%$ of reading for limited temperature range.• $\pm 2^{\circ}\text{C}$ ($\pm 3.6^{\circ}\text{F}$) or 2%, whichever is greater, at 25°C (77°F) nominal.

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes or circles) with max./min./average (in post-acquisition analysis)
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets (in live images)	The user can select and combine measurements from any number of available spots/boxes/circles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation



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Website

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Measurement analysis	
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava

Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none">• Simultaneous storage of thermal and digital photo in same JPEG file.• Optional to store digital photo as a separate JPEG file.
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image

Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none">• Instant Report (*.pdf file) in camera• Separate PC software with extensive report generation

Geographic Information System	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image

Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card



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Video recording in camera	
Visual video recording	MPEG-4 to memory card

Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none"> MPEG-4 using Wi-Fi Uncompressed colorized video using USB
Visual video streaming	<ul style="list-style-type: none"> MPEG-4 using Wi-Fi Uncompressed colorized video using USB

Digital camera	
Built-in digital camera	5 Mpixels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards

USB	
USB	<ul style="list-style-type: none"> USB-A: Connect external USB device USB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB 2.0 high speed

Video output	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible

Radio	
Wi-Fi	<ul style="list-style-type: none"> Standard: 802.11 b/g Frequency range: 2412–2462 MHz Max. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use



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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Power system	
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L x W x H)	143 x 195 x 95 mm (5.6 x 7.7 x 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery (2 ea.)• Battery charger• Bluetooth headset• Calibration certificate• FLIR ResearchIR Max 4• Printed documentation• HDMI-DVI cable• HDMI-HDMI cable• Hard transport case• Lens cap• Memory card• Neck strap• Power supply, incl. multi-plugs• Tripod adapter• USB cable, Std A to Mini-B
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 x 192 x 370 mm (19.49 x 7.56 x 14.57 in.)
EAN-13	7332558008737
UPC-12	845188009250



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Website

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Customer support

<http://support.flir.com>

Shipping information	
Country of origin	Sweden

Supplies & accessories:

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50 µm) with case
- T198060; Close-up IR lens, 5.8× (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5× (25 µm) with case
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case
- T198495; Pouch
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in.
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198496; Stylus pen
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
<p>The FLIR T630sc is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and feature-rich flexibility with superior image quality of 640 × 480 pixel infrared resolution. High accuracy and sensitivity together with streaming options make the FLIR T630sc well suited for advanced research and development.</p>	
Benefits:	
<ul style="list-style-type: none"> • Tailor made for research and development: The FLIR T630sc has high accuracy and high sensitivity to accurately measure the smallest temperature differences. • Flexible and feature rich: A wide variety of measuring and analysis functions makes the camera flexible and able to meet your every need. A programmable button provides easy access to favorite functions. • Highest performance with the latest technology: The FLIR T630sc is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. Continuous auto-focus makes the FLIR T630sc the first fully automatic infrared camera on the market. • Extensive communication options: The Wi-Fi connectivity of the FLIR T630sc allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image. • Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools. 	
Imaging and optical data	
IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<30 mK @ +30°C (+86°F)
Field of view (FOV)	25° × 19°
Minimum focus distance	0.25 m (0.82 ft.)
Focal length	25 mm (0.97 in.)
Spatial resolution (IFOV)	0.68 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Automatic (one shot) or manual
Digital zoom	1–4x continuous
Digital image enhancement	Adaptive digital noise reduction
Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer



FLIR T630sc 25° (incl. Wi-Fi)

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Detector data	
Spectral range	7.5–14 μm
Detector pitch	17 μm

Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 \times 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none">• -40°C to $+150^{\circ}\text{C}$ (-40°F to $+302^{\circ}\text{F}$)• $+100^{\circ}\text{C}$ to $+650^{\circ}\text{C}$ ($+212^{\circ}\text{F}$ to $+1202^{\circ}\text{F}$)
Accuracy	<ul style="list-style-type: none">• $\pm 1^{\circ}\text{C}$ ($\pm 1.8^{\circ}\text{F}$) or $\pm 1\%$ of reading for limited temperature range.• $\pm 2^{\circ}\text{C}$ ($\pm 3.6^{\circ}\text{F}$) or 2%, whichever is greater, at 25°C (77°F) nominal.

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes or circles) with max./min./average (in post-acquisition analysis)
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets (in live images)	The user can select and combine measurements from any number of available spots/boxes/circles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation



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Measurement analysis	
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava

Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none">Simultaneous storage of thermal and digital photo in same JPEG file.Optional to store digital photo as a separate JPEG file.
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image

Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none">Instant Report (*.pdf file) in cameraSeparate PC software with extensive report generation

Geographic Information System	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image

Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card



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Video recording in camera	
Visual video recording	MPEG-4 to memory card

Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none">• MPEG-4 using Wi-Fi• Uncompressed colorized video using USB
Visual video streaming	<ul style="list-style-type: none">• MPEG-4 using Wi-Fi• Uncompressed colorized video using USB

Digital camera	
Built-in digital camera	5 Mpixels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards

USB	
USB	<ul style="list-style-type: none">• USB-A: Connect external USB device• USB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB 2.0 high speed

Video output	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible

Radio	
Wi-Fi	<ul style="list-style-type: none">• Standard: 802.11 b/g• Frequency range: 2412–2462 MHz• Max. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use



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Power system	
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery (2 ea.)• Battery charger• Bluetooth headset• Calibration certificate• FLIR ResearchIR Max 4• Printed documentation• HDMI-DVI cable• HDMI-HDMI cable• Hard transport case• Lens cap• Memory card• Neck strap• Power supply, incl. multi-plugs• Tripod adapter• USB cable, Std A to Mini-B
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558008713
UPC-12	845188009236



FLIR T630sc 25° (incl. Wi-Fi)

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Shipping information	
Country of origin	Sweden

Supplies & accessories:

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50 µm) with case
- T198060; Close-up IR lens, 5.8× (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5× (25 µm) with case
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case
- T198495; Pouch
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in.
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198496; Stylus pen
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
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- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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General description	
The FLIR T630sc is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and feature-rich flexibility with superior image quality of 640 × 480 pixel infrared resolution. High accuracy and sensitivity together with streaming options make the FLIR T630sc well suited for advanced research and development.	
Benefits:	
<ul style="list-style-type: none"> • Tailor made for research and development: The FLIR T630sc has high accuracy and high sensitivity to accurately measure the smallest temperature differences. • Flexible and feature rich: A wide variety of measuring and analysis functions makes the camera flexible and able to meet your every need. A programmable button provides easy access to favorite functions. • Highest performance with the latest technology: The FLIR T630sc is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. Continuous auto-focus makes the FLIR T630sc the first fully automatic infrared camera on the market. • Extensive communication options: The Wi-Fi connectivity of the FLIR T630sc allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLINK function transfers readings from external measurement instruments to the infrared image. • Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools. 	

Imaging and optical data	
IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<30 mK @ +30°C (+86°F)
Field of view (FOV)	25° × 19°
Minimum focus distance	0.25 m (0.82 ft.)
Focal length	25 mm (0.97 in.)
Spatial resolution (IFOV)	0.68 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Automatic (one shot) or manual
Digital zoom	1–4x continuous
Digital image enhancement	Adaptive digital noise reduction

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm



FLIR T630sc 25° and 45° w/case

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Website

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Customer support

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Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 x 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none"> -40°C to +150°C (-40°F to +302°F) +100°C to +650°C (+212°F to +1202°F)
Accuracy	<ul style="list-style-type: none"> ±1°C (±1.8°F) or ±1% of reading for limited temperature range. ±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes or circles) with max./min./average (in post-acquisition analysis)
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets (in live images)	The user can select and combine measurements from any number of available spots/boxes/circles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava



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Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none">• Simultaneous storage of thermal and digital photo in same JPEG file.• Optional to store digital photo as a separate JPEG file.
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image

Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none">• Instant Report (*.pdf file) in camera• Separate PC software with extensive report generation

Geographic Information System	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image

Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card



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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB
Visual video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB

Digital camera	
Built-in digital camera	5 Mpxels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards

USB	
USB	<ul style="list-style-type: none">USB-A: Connect external USB deviceUSB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB 2.0 high speed

Video output	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible

Radio	
Wi-Fi	<ul style="list-style-type: none">Standard: 802.11 b/gFrequency range: 2412–2462 MHzMax. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger



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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Power system	
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)

Environmental data	
Operating temperature range	-15°C to +50°C (+5°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none"> • ETSI EN 301 489-1 (radio) • ETSI EN 301 489-17 • EN 61000-6-2 (Immunity) • EN 61000-6-3 (Emission) • FCC 47 CFR Part 15 Class B (Emission) • ICES-003
Radio spectrum	<ul style="list-style-type: none"> • ETSI EN 300 328 • FCC Part 15.247 • RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L x W x H)	143 x 195 x 95 mm (5.6 x 7.7 x 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Infrared camera with lens • Battery (2 ea.) • Battery charger • Bluetooth headset • Calibration certificate • FLIR ResearchIR Max 4 • HDMI-DVI cable • HDMI-HDMI cable • Hard transport case • IR lens, f=13.1 mm (45°) with case • Lens cap • Memory card • Neck strap • Power supply, incl. multi-plugs • Printed documentation • Tripod adapter • USB cable, Std A to Mini-B
EAN-13	7332558012062
UPC-12	845188013165
Country of origin	Sweden

Supplies & accessories:

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case



FLIR T630sc 25° and 45° w/case

P/N: 55904-8124

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Last modified

2017-06-28 14:11 UTC+1

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- T198059; Close-up IR lens, 2.9x (50 µm) with case
- T198060; Close-up IR lens, 5.8x (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5x (25 µm) with case
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case
- T198495; Pouch
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198496; Stylus pen
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

P/N: 55904-8223

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General description

The FLIR T630sc is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and feature-rich flexibility with superior image quality of 640 × 480 pixel infrared resolution. High accuracy and sensitivity together with streaming options make the FLIR T630sc well suited for advanced research and development.

Benefits:

- Tailor made for research and development: The FLIR T630sc has high accuracy and high sensitivity to accurately measure the smallest temperature differences.
- Flexible and feature rich: A wide variety of measuring and analysis functions makes the camera flexible and able to meet your every need. A programmable button provides easy access to favorite functions.
- Highest performance with the latest technology: The FLIR T630sc is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. Continuous auto-focus makes the FLIR T630sc the first fully automatic infrared camera on the market.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T630sc allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.
- Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools.

Imaging and optical data

IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<30 mK @ +30°C (+86°F)
Field of view (FOV)	45° × 34°
Minimum focus distance	0.15 m (0.49 ft.)
Focal length	13 mm (0.52 in.)
Spatial resolution (IFOV)	1.30 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Automatic (one shot) or manual
Digital zoom	1–4x continuous
Digital image enhancement	Adaptive digital noise reduction

Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
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FLIR T630sc 45° (incl. Wi-Fi)

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Website

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Customer support

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Detector data	
Spectral range	7.5–14 μm
Detector pitch	17 μm

Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 \times 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none">• -40°C to $+150^{\circ}\text{C}$ (-40°F to $+302^{\circ}\text{F}$)• $+100^{\circ}\text{C}$ to $+650^{\circ}\text{C}$ ($+212^{\circ}\text{F}$ to $+1202^{\circ}\text{F}$)
Accuracy	<ul style="list-style-type: none">• $\pm 1^{\circ}\text{C}$ ($\pm 1.8^{\circ}\text{F}$) or $\pm 1\%$ of reading for limited temperature range.• $\pm 2^{\circ}\text{C}$ ($\pm 3.6^{\circ}\text{F}$) or 2%, whichever is greater, at 25°C (77°F) nominal.

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes or circles) with max./min./average (in post-acquisition analysis)
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets (in live images)	The user can select and combine measurements from any number of available spots/boxes/circles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation



FLIR T630sc 45° (incl. Wi-Fi)

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Measurement analysis	
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava

Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none">• Simultaneous storage of thermal and digital photo in same JPEG file.• Optional to store digital photo as a separate JPEG file.
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image

Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none">• Instant Report (*.pdf file) in camera• Separate PC software with extensive report generation

Geographic Information System	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image

Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card



FLIR T630sc 45° (incl. Wi-Fi)

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Video recording in camera	
Visual video recording	MPEG-4 to memory card

Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB
Visual video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB

Digital camera	
Built-in digital camera	5 Mpixels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards

USB	
USB	<ul style="list-style-type: none">USB-A: Connect external USB deviceUSB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB 2.0 high speed

Video output	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible

Radio	
Wi-Fi	<ul style="list-style-type: none">Standard: 802.11 b/gFrequency range: 2412–2462 MHzMax. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use



FLIR T630sc 45° (incl. Wi-Fi)

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Customer support

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Power system	
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)

Environmental data	
Operating temperature range	-15°C to +50°C (+5°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L x W x H)	143 x 195 x 95 mm (5.6 x 7.7 x 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery (2 ea.)• Battery charger• Bluetooth headset• Calibration certificate• FLIR ResearchIR Max 4• Printed documentation• HDMI-DVI cable• HDMI-HDMI cable• Hard transport case• Lens cap• Memory card• Neck strap• Power supply, incl. multi-plugs• Tripod adapter• USB cable, Std A to Mini-B
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 x 192 x 370 mm (19.49 x 7.56 x 14.57 in.)
EAN-13	7332558008744
UPC-12	845188009267



FLIR T630sc 45° (incl. Wi-Fi)

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Website

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Customer support

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Shipping information	
Country of origin	Sweden

Supplies & accessories:

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50 µm) with case
- T198060; Close-up IR lens, 5.8× (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5× (25 µm) with case
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case
- T198495; Pouch
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in.
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198496; Stylus pen
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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Website

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General description	
The FLIR T640 is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 640 × 480 pixel infrared resolution. The FLIR T640 is flexible and can meet your every need, and has extensive communication options.	
Benefits:	
<ul style="list-style-type: none"> • Highest performance with the latest technology: The FLIR T640 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. Continuous auto-focus makes the FLIR T640 the first fully automatic infrared camera on the market. • Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views. • Extensive communication options: The Wi-Fi connectivity of the FLIR T640 allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image. • Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools. 	

Imaging and optical data	
IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<30 mK @ +30°C (+86°F)
Field of view (FOV)	15° × 11°
Minimum focus distance	0.5 m (1.64 ft.)
Focal length	41 mm (1.63 in.)
Spatial resolution (IFOV)	0.41 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Continuous, one shot or manual
Digital zoom	1–8× continuous
Digital image enhancement	Adaptive digital noise reduction

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm

Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels



FLIR T640 15° (incl. Wi-Fi and Ext. cal.)

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Website

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Image presentation	
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Viewfinder	Built-in 800 × 480 pixels
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none"> • -40°C to +150°C (-40°F to +302°F) • +100°C to +650°C (+212°F to +1202°F) • +300°C to +2000°C (+572°F to +3632°F)
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes or circles) with max./min./average (in post-acquisition analysis)
Profile	1 line profile with max/min temp
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area and profile
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets (in live images)	The user can select and combine measurements from any number of available spots/boxes/circles/profiles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava



FLIR T640 15° (incl. Wi-Fi and Ext. cal.)

P/N: 55904-6823

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none"> • Simultaneous storage of thermal and digital photo in same JPEG file. • Optional to store digital photo as a separate JPEG file.
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image

Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> • Instant Report (*.pdf file) in camera • Separate PC software with extensive report generation

Geographic Information System	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image

Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card



FLIR T640 15° (incl. Wi-Fi and Ext. cal.)

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Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none">• MPEG-4 using Wi-Fi• Uncompressed colorized video using USB
Visual video streaming	<ul style="list-style-type: none">• MPEG-4 using Wi-Fi• Uncompressed colorized video using USB

Digital camera	
Built-in digital camera	5 Mpxels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards

USB	
USB	<ul style="list-style-type: none">• USB-A: Connect external USB device• USB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB 2.0 high speed

Video output	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible

Radio	
Wi-Fi	<ul style="list-style-type: none">• Standard: 802.11 b/g• Frequency range: 2412–2462 MHz• Max. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger



FLIR T640 15° (incl. Wi-Fi and Ext. cal.)

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Power system	
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery (2 ea.)• Battery charger• Bluetooth headset• Calibration certificate• Extended calibration certificate• HDMI-DVI cable• HDMI-HDMI cable• Hard transport case• Large eyecap• Lens cap• Memory card• Neck strap• Power supply, incl. multi-plugs• Printed documentation• Tripod adapter• USB cable, Std A to Mini-B
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558011973
UPC-12	845188013080
Country of origin	Sweden

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Supplies & accessories:

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50 µm) with case
- T198060; Close-up IR lens, 5.8× (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5× (25 µm) with case
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- T910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case
- T198495; Pouch
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198496; Stylus pen
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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General description	
The FLIR T640 is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 640 × 480 pixel infrared resolution. The FLIR T640 is flexible and can meet your every need, and has extensive communication options.	
Benefits:	
<ul style="list-style-type: none"> • Highest performance with the latest technology: The FLIR T640 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. Continuous auto-focus makes the FLIR T640 the first fully automatic infrared camera on the market. • Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views. • Extensive communication options: The Wi-Fi connectivity of the FLIR T640 allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image. • Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools. 	

Imaging and optical data	
IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<30 mK @ +30°C (+86°F)
Field of view (FOV)	15° × 11°
Minimum focus distance	0.5 m (1.64 ft.)
Focal length	41 mm (1.63 in.)
Spatial resolution (IFOV)	0.41 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Continuous, one shot or manual
Digital zoom	1–8× continuous
Digital image enhancement	Adaptive digital noise reduction

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm

Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels



FLIR T640 15° (incl. Wi-Fi)

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Image presentation	
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Viewfinder	Built-in 800 × 480 pixels
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none"> • -40°C to +150°C (-40°F to +302°F) • +100°C to +650°C (+212°F to +1202°F) • +300°C to +2000°C (+572°F to +3632°F)
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes or circles) with max./min./average (in post-acquisition analysis)
Profile	1 line profile with max/min temp
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area and profile
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets (in live images)	The user can select and combine measurements from any number of available spots/boxes/circles/profiles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava



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Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none"> Simultaneous storage of thermal and digital photo in same JPEG file. Optional to store digital photo as a separate JPEG file.
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image

Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> Instant Report (*.pdf file) in camera Separate PC software with extensive report generation

Geographic Information System	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image

Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card



FLIR T640 15° (incl. Wi-Fi)

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Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB
Visual video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB

Digital camera	
Built-in digital camera	5 Mpxels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards

USB	
USB	<ul style="list-style-type: none">USB-A: Connect external USB deviceUSB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB 2.0 high speed

Video output	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible

Radio	
Wi-Fi	<ul style="list-style-type: none">Standard: 802.11 b/gFrequency range: 2412–2462 MHzMax. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger



FLIR T640 15° (incl. Wi-Fi)

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Power system	
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery (2 ea.)• Battery charger• Bluetooth headset• Calibration certificate• Printed documentation• HDMI-DVI cable• HDMI-HDMI cable• Hard transport case• Large eyecap• Lens cap• Memory card• Neck strap• Power supply, incl. multi-plugs• Tripod adapter• USB cable, Std A to Mini-B
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558006986
UPC-12	845188007331
Country of origin	Sweden

Supplies & accessories:

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- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50 µm) with case
- T198060; Close-up IR lens, 5.8× (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5× (25 µm) with case
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case
- T198495; Pouch
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198496; Stylus pen
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

The FLIR T640 is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 640 × 480 pixel infrared resolution. The FLIR T640 is flexible and can meet your every need, and has extensive communication options.

Benefits:

- Highest performance with the latest technology: The FLIR T640 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. Continuous auto-focus makes the FLIR T640 the first fully automatic infrared camera on the market.
- Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T640 allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.
- Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools.

Imaging and optical data

IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<30 mK @ +30°C (+86°F)
Field of view (FOV)	25° × 19°
Minimum focus distance	0.25 m (0.82 ft.)
Focal length	25 mm (0.97 in.)
Spatial resolution (IFOV)	0.68 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Continuous, one shot or manual
Digital zoom	1–8× continuous
Digital image enhancement	Adaptive digital noise reduction

Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm

Image presentation

Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
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FLIR T640 25° (incl. Wi-Fi and Ext. cal.)

P/N: 55904-6925

Revision

43545

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Image presentation	
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Viewfinder	Built-in 800 × 480 pixels
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none">• -40°C to +150°C (-40°F to +302°F)• +100°C to +650°C (+212°F to +1202°F)• +300°C to +2000°C (+572°F to +3632°F)
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes or circles) with max./min./average (in post-acquisition analysis)
Profile	1 line profile with max/min temp
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area and profile
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets (in live images)	The user can select and combine measurements from any number of available spots/boxes/circles/profiles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava



FLIR T640 25° (incl. Wi-Fi and Ext. cal.)

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Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none">• Simultaneous storage of thermal and digital photo in same JPEG file.• Optional to store digital photo as a separate JPEG file.
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image

Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none">• Instant Report (*.pdf file) in camera• Separate PC software with extensive report generation

Geographic Information System	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image

Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card



FLIR T640 25° (incl. Wi-Fi and Ext. cal.)

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Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB
Visual video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB

Digital camera	
Built-in digital camera	5 Mpxels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards

USB	
USB	<ul style="list-style-type: none">USB-A: Connect external USB deviceUSB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB 2.0 high speed

Video output	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible

Radio	
Wi-Fi	<ul style="list-style-type: none">Standard: 802.11 b/gFrequency range: 2412–2462 MHzMax. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger



FLIR T640 25° (incl. Wi-Fi and Ext. cal.)

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Power system	
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery (2 ea.)• Battery charger• Bluetooth headset• Calibration certificate• Extended calibration certificate• HDMI-DVI cable• HDMI-HDMI cable• Hard transport case• Large eyecap• Lens cap• Memory card• Neck strap• Power supply, incl. multi-plugs• Printed documentation• Tripod adapter• USB cable, Std A to Mini-B
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558011980
UPC-12	845188013097
Country of origin	Sweden

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Supplies & accessories:

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50 μm) with case
- T198060; Close-up IR lens, 5.8× (100 μm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5× (25 μm) with case
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- T910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case
- T198495; Pouch
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198496; Stylus pen
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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General description	
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Benefits:	
<ul style="list-style-type: none"> • Highest performance with the latest technology: The FLIR T640 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. Continuous auto-focus makes the FLIR T640 the first fully automatic infrared camera on the market. • Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views. • Extensive communication options: The Wi-Fi connectivity of the FLIR T640 allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image. • Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools. 	

Imaging and optical data	
IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<30 mK @ +30°C (+86°F)
Field of view (FOV)	25° × 19°
Minimum focus distance	0.25 m (0.82 ft.)
Focal length	25 mm (0.97 in.)
Spatial resolution (IFOV)	0.68 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Continuous, one shot or manual
Digital zoom	1–8× continuous
Digital image enhancement	Adaptive digital noise reduction

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm

Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels



FLIR T640 25° (incl. Wi-Fi)

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Image presentation	
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Viewfinder	Built-in 800 × 480 pixels
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none">• -40°C to +150°C (-40°F to +302°F)• +100°C to +650°C (+212°F to +1202°F)• +300°C to +2000°C (+572°F to +3632°F)
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes or circles) with max./min./average (in post-acquisition analysis)
Profile	1 line profile with max/min temp
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area and profile
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets (in live images)	The user can select and combine measurements from any number of available spots/boxes/circles/profiles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava



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Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none"> • Simultaneous storage of thermal and digital photo in same JPEG file. • Optional to store digital photo as a separate JPEG file.
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image

Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> • Instant Report (*.pdf file) in camera • Separate PC software with extensive report generation

Geographic Information System	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image

Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card



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Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB
Visual video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB

Digital camera	
Built-in digital camera	5 Mpxels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards

USB	
USB	<ul style="list-style-type: none">USB-A: Connect external USB deviceUSB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB 2.0 high speed

Video output	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible

Radio	
Wi-Fi	<ul style="list-style-type: none">Standard: 802.11 b/gFrequency range: 2412–2462 MHzMax. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger



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Power system	
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery (2 ea.)• Battery charger• Bluetooth headset• Calibration certificate• Printed documentation• HDMI-DVI cable• HDMI-HDMI cable• Hard transport case• Large eyecap• Lens cap• Memory card• Neck strap• Power supply, incl. multi-plugs• Tripod adapter• USB cable, Std A to Mini-B
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558006993
UPC-12	845188007348
Country of origin	Sweden

Supplies & accessories:

P/N: 55904-6922

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9x (50 µm) with case
- T198060; Close-up IR lens, 5.8x (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5x (25 µm) with case
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case
- T198495; Pouch
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198496; Stylus pen
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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General description	
The FLIR T640 is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 640 × 480 pixel infrared resolution. The FLIR T640 is flexible and can meet your every need, and has extensive communication options.	
Benefits:	
<ul style="list-style-type: none"> • Highest performance with the latest technology: The FLIR T640 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. Continuous auto-focus makes the FLIR T640 the first fully automatic infrared camera on the market. • Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views. • Extensive communication options: The Wi-Fi connectivity of the FLIR T640 allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image. • Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools. 	

Imaging and optical data	
IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<30 mK @ +30°C (+86°F)
Field of view (FOV)	25° × 19°
Minimum focus distance	0.25 m (0.82 ft.)
Focal length	25 mm (0.97 in.)
Spatial resolution (IFOV)	0.68 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Continuous, one shot or manual
Digital zoom	1–8× continuous
Digital image enhancement	Adaptive digital noise reduction

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm

Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels



FLIR T640 25° and 15° (incl. Wi-Fi)

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Image presentation	
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Viewfinder	Built-in 800 × 480 pixels
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none">• -40°C to +150°C (-40°F to +302°F)• +100°C to +650°C (+212°F to +1202°F)• +300°C to +2000°C (+572°F to +3632°F)
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes or circles) with max./min./average (in post-acquisition analysis)
Profile	1 line profile with max/min temp
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area and profile
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets (in live images)	The user can select and combine measurements from any number of available spots/boxes/circles/profiles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava



FLIR T640 25° and 15° (incl. Wi-Fi)

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Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none"> Simultaneous storage of thermal and digital photo in same JPEG file. Optional to store digital photo as a separate JPEG file.
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image

Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> Instant Report (*.pdf file) in camera Separate PC software with extensive report generation

Geographic Information System	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image

Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card



FLIR T640 25° and 15° (incl. Wi-Fi)

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Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none">• MPEG-4 using Wi-Fi• Uncompressed colorized video using USB
Visual video streaming	<ul style="list-style-type: none">• MPEG-4 using Wi-Fi• Uncompressed colorized video using USB

Digital camera	
Built-in digital camera	5 Mpxels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards

USB	
USB	<ul style="list-style-type: none">• USB-A: Connect external USB device• USB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB 2.0 high speed

Video output	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible

Radio	
Wi-Fi	<ul style="list-style-type: none">• Standard: 802.11 b/g• Frequency range: 2412–2462 MHz• Max. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger



FLIR T640 25° and 15° (incl. Wi-Fi)

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Power system	
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery (2 ea.)• Battery charger• Bluetooth headset• Calibration certificate• HDMI-DVI cable• HDMI-HDMI cable• Hard transport case• IR lens, 15°• Large eyecap• Lens cap• Memory card• Neck strap• Power supply, incl. multi-plugs• Printed documentation• Tripod adapter• USB cable, Std A to Mini-B
Packaging, weight	5.7 kg (12.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558011263
UPC-12	845188012144
Country of origin	Sweden

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Supplies & accessories:

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50 µm) with case
- T198060; Close-up IR lens, 5.8× (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5× (25 µm) with case
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- T910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case
- T198495; Pouch
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198496; Stylus pen
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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General description	
The FLIR T640 is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 640 × 480 pixel infrared resolution. The FLIR T640 is flexible and can meet your every need, and has extensive communication options.	
Benefits:	
<ul style="list-style-type: none"> • Highest performance with the latest technology: The FLIR T640 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. Continuous auto-focus makes the FLIR T640 the first fully automatic infrared camera on the market. • Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views. • Extensive communication options: The Wi-Fi connectivity of the FLIR T640 allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image. • Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools. 	

Imaging and optical data	
IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<30 mK @ +30°C (+86°F)
Field of view (FOV)	25° × 19°
Minimum focus distance	0.25 m (0.82 ft.)
Focal length	25 mm (0.97 in.)
Spatial resolution (IFOV)	0.68 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Continuous, one shot or manual
Digital zoom	1–8× continuous
Digital image enhancement	Adaptive digital noise reduction

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm

Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels



FLIR T640 25° and 45° (incl. Wi-Fi)

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Image presentation	
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Viewfinder	Built-in 800 × 480 pixels
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none">• -40°C to +150°C (-40°F to +302°F)• +100°C to +650°C (+212°F to +1202°F)• +300°C to +2000°C (+572°F to +3632°F)
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes or circles) with max./min./average (in post-acquisition analysis)
Profile	1 line profile with max/min temp
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area and profile
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets (in live images)	The user can select and combine measurements from any number of available spots/boxes/circles/profiles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava



FLIR T640 25° and 45° (incl. Wi-Fi)

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Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none">• Simultaneous storage of thermal and digital photo in same JPEG file.• Optional to store digital photo as a separate JPEG file.
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image

Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none">• Instant Report (*.pdf file) in camera• Separate PC software with extensive report generation

Geographic Information System	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image

Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card



FLIR T640 25° and 45° (incl. Wi-Fi)

P/N: 55904-6924

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB
Visual video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB

Digital camera	
Built-in digital camera	5 Mpxels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards

USB	
USB	<ul style="list-style-type: none">USB-A: Connect external USB deviceUSB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB 2.0 high speed

Video output	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible

Radio	
Wi-Fi	<ul style="list-style-type: none">Standard: 802.11 b/gFrequency range: 2412–2462 MHzMax. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger



FLIR T640 25° and 45° (incl. Wi-Fi)

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Power system	
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery (2 ea.)• Battery charger• Bluetooth headset• Calibration certificate• HDMI-DVI cable• HDMI-HDMI cable• Hard transport case• IR lens, 45°• Large eyecap• Lens cap• Memory card• Neck strap• Power supply, incl. multi-plugs• Printed documentation• Tripod adapter• USB cable, Std A to Mini-B
Packaging, weight	5.7 kg (12.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558011270
UPC-12	845188012151
Country of origin	Sweden

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Supplies & accessories:

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50 µm) with case
- T198060; Close-up IR lens, 5.8× (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5× (25 µm) with case
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- T910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case
- T198495; Pouch
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198496; Stylus pen
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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General description	
The FLIR T640 is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 640 × 480 pixel infrared resolution. The FLIR T640 is flexible and can meet your every need, and has extensive communication options.	
Benefits:	
<ul style="list-style-type: none"> • Highest performance with the latest technology: The FLIR T640 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. Continuous auto-focus makes the FLIR T640 the first fully automatic infrared camera on the market. • Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views. • Extensive communication options: The Wi-Fi connectivity of the FLIR T640 allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image. • Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools. 	

Imaging and optical data	
IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<30 mK @ +30°C (+86°F)
Field of view (FOV)	45° × 34°
Minimum focus distance	0.15 m (0.49 ft.)
Focal length	13 mm (0.52 in.)
Spatial resolution (IFOV)	1.30 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Continuous, one shot or manual
Digital zoom	1–8× continuous
Digital image enhancement	Adaptive digital noise reduction

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm

Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels

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Image presentation	
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Viewfinder	Built-in 800 × 480 pixels
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none"> • -40°C to +150°C (-40°F to +302°F) • +100°C to +650°C (+212°F to +1202°F) • +300°C to +2000°C (+572°F to +3632°F)
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes or circles) with max./min./average (in post-acquisition analysis)
Profile	1 line profile with max/min temp
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area and profile
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets (in live images)	The user can select and combine measurements from any number of available spots/boxes/circles/profiles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava



FLIR T640 45° (incl. Wi-Fi and Ext. cal.)

P/N: 55904-7023

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Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none">• Simultaneous storage of thermal and digital photo in same JPEG file.• Optional to store digital photo as a separate JPEG file.
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image

Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none">• Instant Report (*.pdf file) in camera• Separate PC software with extensive report generation

Geographic Information System	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image

Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card



FLIR T640 45° (incl. Wi-Fi and Ext. cal.)

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Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB
Visual video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB

Digital camera	
Built-in digital camera	5 Mpxels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards

USB	
USB	<ul style="list-style-type: none">USB-A: Connect external USB deviceUSB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB 2.0 high speed

Video output	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible

Radio	
Wi-Fi	<ul style="list-style-type: none">Standard: 802.11 b/gFrequency range: 2412–2462 MHzMax. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger



FLIR T640 45° (incl. Wi-Fi and Ext. cal.)

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Power system	
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery (2 ea.)• Battery charger• Bluetooth headset• Calibration certificate• Extended calibration certificate• HDMI-DVI cable• HDMI-HDMI cable• Hard transport case• Large eyecap• Lens cap• Memory card• Neck strap• Power supply, incl. multi-plugs• Printed documentation• Tripod adapter• USB cable, Std A to Mini-B
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558011997
UPC-12	845188013103
Country of origin	Sweden

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- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
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- T198060; Close-up IR lens, 5.8× (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5× (25 µm) with case
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- T910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case
- T198495; Pouch
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
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- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198496; Stylus pen
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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General description	
The FLIR T640 is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 640 × 480 pixel infrared resolution. The FLIR T640 is flexible and can meet your every need, and has extensive communication options.	
Benefits:	
<ul style="list-style-type: none"> • Highest performance with the latest technology: The FLIR T640 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. Continuous auto-focus makes the FLIR T640 the first fully automatic infrared camera on the market. • Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views. • Extensive communication options: The Wi-Fi connectivity of the FLIR T640 allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image. • Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools. 	

Imaging and optical data	
IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<30 mK @ +30°C (+86°F)
Field of view (FOV)	45° × 34°
Minimum focus distance	0.15 m (0.49 ft.)
Focal length	13 mm (0.52 in.)
Spatial resolution (IFOV)	1.30 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Continuous, one shot or manual
Digital zoom	1–8× continuous
Digital image enhancement	Adaptive digital noise reduction

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm

Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels



FLIR T640 45° (incl. Wi-Fi)

P/N: 55904-7022

Revision

43545

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Image presentation	
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Viewfinder	Built-in 800 × 480 pixels
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none">• -40°C to +150°C (-40°F to +302°F)• +100°C to +650°C (+212°F to +1202°F)• +300°C to +2000°C (+572°F to +3632°F)
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes or circles) with max./min./average (in post-acquisition analysis)
Profile	1 line profile with max/min temp
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area and profile
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets (in live images)	The user can select and combine measurements from any number of available spots/boxes/circles/profiles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava



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Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none"> • Simultaneous storage of thermal and digital photo in same JPEG file. • Optional to store digital photo as a separate JPEG file.
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image

Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> • Instant Report (*.pdf file) in camera • Separate PC software with extensive report generation

Geographic Information System	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image

Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card



FLIR T640 45° (incl. Wi-Fi)

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Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB
Visual video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB

Digital camera	
Built-in digital camera	5 Mpxels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards

USB	
USB	<ul style="list-style-type: none">USB-A: Connect external USB deviceUSB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB 2.0 high speed

Video output	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible

Radio	
Wi-Fi	<ul style="list-style-type: none">Standard: 802.11 b/gFrequency range: 2412–2462 MHzMax. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger



FLIR T640 45° (incl. Wi-Fi)

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Power system	
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery (2 ea.)• Battery charger• Bluetooth headset• Calibration certificate• Printed documentation• HDMI-DVI cable• HDMI-HDMI cable• Hard transport case• Large eyecap• Lens cap• Memory card• Neck strap• Power supply, incl. multi-plugs• Tripod adapter• USB cable, Std A to Mini-B
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558007006
UPC-12	845188007355
Country of origin	Sweden

Supplies & accessories:

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- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9x (50 µm) with case
- T198060; Close-up IR lens, 5.8x (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5x (25 µm) with case
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case
- T198495; Pouch
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198496; Stylus pen
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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General description

The FLIR T640bx is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 640 × 480 pixel infrared resolution. The FLIR T640bx is flexible and can meet your every need, and has extensive communication options.

Benefits:

- Highest performance with the latest technology: The FLIR T640bx is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. Continuous auto-focus makes the FLIR T640bx the first fully automatic infrared camera on the market.
- Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T640bx allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLINK function transfers readings from external measurement instruments to the infrared image.
- Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools.

Imaging and optical data

IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<30 mK @ +30°C (+86°F)
Field of view (FOV)	15° × 11°
Minimum focus distance	0.5 m (1.64 ft.)
Focal length	41 mm (1.63 in.)
Spatial resolution (IFOV)	0.41 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Continuous, one shot or manual
Digital zoom	1–8× continuous
Digital image enhancement	Adaptive digital noise reduction

Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm

Image presentation

Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
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FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)

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Image presentation	
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Viewfinder	Built-in 800 × 480 pixels
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none"> -40°C to +150°C (-40°F to +302°F) +100°C to +650°C (+212°F to +1202°F)
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes or circles) with max./min./average (in post-acquisition analysis)
Profile	1 line profile with max/min temp
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area and profile
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets (in live images)	The user can select and combine measurements from any number of available spots/boxes/circles/profiles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava



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Website

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Customer support

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Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible
Humidity alarm	1 humidity alarm, including dew point alarm
Insulation alarm	1 insulation alarm

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none">• Simultaneous storage of thermal and digital photo in same JPEG file.• Optional to store digital photo as a separate JPEG file.
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image

Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLINK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none">• Instant Report (*.pdf file) in camera• Separate PC software with extensive report generation

Geographic Information System	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image

Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card



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Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB
Visual video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB

Digital camera	
Built-in digital camera	5 Mpxels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards

USB	
USB	<ul style="list-style-type: none">USB-A: Connect external USB deviceUSB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB 2.0 high speed

Video output	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible

Radio	
Wi-Fi	<ul style="list-style-type: none">Standard: 802.11 b/gFrequency range: 2412–2462 MHzMax. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger



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Power system	
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery (2 ea.)• Battery charger• Bluetooth headset• Calibration certificate• Extended calibration certificate• HDMI-DVI cable• HDMI-HDMI cable• Hard transport case• Large eyecap• Lens cap• Memory card• Neck strap• Power supply, incl. multi-plugs• Printed documentation• Tripod adapter• USB cable, Std A to Mini-B
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558012000
UPC-12	845188013110
Country of origin	Sweden

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Supplies & accessories:

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50 μm) with case
- T198060; Close-up IR lens, 5.8× (100 μm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5× (25 μm) with case
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- T910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case
- T198495; Pouch
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198496; Stylus pen
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

The FLIR T640bx is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 640 × 480 pixel infrared resolution. The FLIR T640bx is flexible and can meet your every need, and has extensive communication options.

Benefits:

- Highest performance with the latest technology: The FLIR T640bx is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. Continuous auto-focus makes the FLIR T640bx the first fully automatic infrared camera on the market.
- Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T640bx allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLINK function transfers readings from external measurement instruments to the infrared image.
- Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools.

Imaging and optical data

IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<30 mK @ +30°C (+86°F)
Field of view (FOV)	15° × 11°
Minimum focus distance	0.5 m (1.64 ft.)
Focal length	41 mm (1.63 in.)
Spatial resolution (IFOV)	0.41 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Continuous, one shot or manual
Digital zoom	1–8× continuous
Digital image enhancement	Adaptive digital noise reduction

Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm

Image presentation

Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
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FLIR T640bx 15° (incl. Wi-Fi)

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Image presentation	
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Viewfinder	Built-in 800 × 480 pixels
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none">-40°C to +150°C (-40°F to +302°F)+100°C to +650°C (+212°F to +1202°F)
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes or circles) with max./min./average (in post-acquisition analysis)
Profile	1 line profile with max/min temp
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area and profile
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets (in live images)	The user can select and combine measurements from any number of available spots/boxes/circles/profiles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava



FLIR T640bx 15° (incl. Wi-Fi)

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Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible
Humidity alarm	1 humidity alarm, including dew point alarm
Insulation alarm	1 insulation alarm

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none">• Simultaneous storage of thermal and digital photo in same JPEG file.• Optional to store digital photo as a separate JPEG file.
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image

Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLINK	Wireless connection (Bluetooth) to: FLIR meters with METERLINK
Report generation	<ul style="list-style-type: none">• Instant Report (*.pdf file) in camera• Separate PC software with extensive report generation

Geographic Information System	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image

Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card



FLIR T640bx 15° (incl. Wi-Fi)

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Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB
Visual video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB

Digital camera	
Built-in digital camera	5 Mpxels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards

USB	
USB	<ul style="list-style-type: none">USB-A: Connect external USB deviceUSB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB 2.0 high speed

Video output	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible

Radio	
Wi-Fi	<ul style="list-style-type: none">Standard: 802.11 b/gFrequency range: 2412–2462 MHzMax. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger



FLIR T640bx 15° (incl. Wi-Fi)

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Power system	
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery (2 ea.)• Battery charger• Bluetooth headset• Calibration certificate• Printed documentation• HDMI-DVI cable• HDMI-HDMI cable• Hard transport case• Large eyecap• Lens cap• Memory card• Neck strap• Power supply, incl. multi-plugs• Tripod adapter• USB cable, Std A to Mini-B
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558007051
UPC-12	845188007393
Country of origin	Sweden

Supplies & accessories:

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- T198060; Close-up IR lens, 5.8x (100 µm) with case
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- T198066; Close-up IR lens, 1.5x (25 µm) with case
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- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case
- T198495; Pouch
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198496; Stylus pen
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
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- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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General description

The FLIR T640bx is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 640 × 480 pixel infrared resolution. The FLIR T640bx is flexible and can meet your every need, and has extensive communication options.

Benefits:

- Highest performance with the latest technology: The FLIR T640bx is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. Continuous auto-focus makes the FLIR T640bx the first fully automatic infrared camera on the market.
- Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T640bx allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLINK function transfers readings from external measurement instruments to the infrared image.
- Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools.

Imaging and optical data

IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<30 mK @ +30°C (+86°F)
Field of view (FOV)	25° × 19°
Minimum focus distance	0.25 m (0.82 ft.)
Focal length	25 mm (0.97 in.)
Spatial resolution (IFOV)	0.68 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Continuous, one shot or manual
Digital zoom	1–8× continuous
Digital image enhancement	Adaptive digital noise reduction

Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm

Image presentation

Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
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FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)

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Customer support

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Image presentation	
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Viewfinder	Built-in 800 × 480 pixels
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none"> -40°C to +150°C (-40°F to +302°F) +100°C to +650°C (+212°F to +1202°F)
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes or circles) with max./min./average (in post-acquisition analysis)
Profile	1 line profile with max/min temp
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area and profile
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets (in live images)	The user can select and combine measurements from any number of available spots/boxes/circles/profiles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava



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Website

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Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible
Humidity alarm	1 humidity alarm, including dew point alarm
Insulation alarm	1 insulation alarm

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none"> Simultaneous storage of thermal and digital photo in same JPEG file. Optional to store digital photo as a separate JPEG file.
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image

Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLINK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> Instant Report (*.pdf file) in camera Separate PC software with extensive report generation

Geographic Information System	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image

Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card



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Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none">• MPEG-4 using Wi-Fi• Uncompressed colorized video using USB
Visual video streaming	<ul style="list-style-type: none">• MPEG-4 using Wi-Fi• Uncompressed colorized video using USB

Digital camera	
Built-in digital camera	5 Mpxels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards

USB	
USB	<ul style="list-style-type: none">• USB-A: Connect external USB device• USB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB 2.0 high speed

Video output	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible

Radio	
Wi-Fi	<ul style="list-style-type: none">• Standard: 802.11 b/g• Frequency range: 2412–2462 MHz• Max. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger



FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)

P/N: 55904-7523

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Customer support

<http://support.flir.com>

Power system	
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery (2 ea.)• Battery charger• Bluetooth headset• Calibration certificate• Extended calibration certificate• HDMI-DVI cable• HDMI-HDMI cable• Hard transport case• Large eyecap• Lens cap• Memory card• Neck strap• Power supply, incl. multi-plugs• Printed documentation• Tripod adapter• USB cable, Std A to Mini-B
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558012017
UPC-12	845188013127

Supplies & accessories:

- T197914; IR lens, f=41.3 mm (15°) with case



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- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9x (50 µm) with case
- T198060; Close-up IR lens, 5.8x (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5x (25 µm) with case
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case
- T198495; Pouch
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in.
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198496; Stylus pen
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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General description

The FLIR T640bx is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 640 × 480 pixel infrared resolution. The FLIR T640bx is flexible and can meet your every need, and has extensive communication options.

Benefits:

- Highest performance with the latest technology: The FLIR T640bx is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. Continuous auto-focus makes the FLIR T640bx the first fully automatic infrared camera on the market.
- Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T640bx allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLINK function transfers readings from external measurement instruments to the infrared image.
- Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools.

Imaging and optical data

IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<30 mK @ +30°C (+86°F)
Field of view (FOV)	25° × 19°
Minimum focus distance	0.25 m (0.82 ft.)
Focal length	25 mm (0.97 in.)
Spatial resolution (IFOV)	0.68 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Continuous, one shot or manual
Digital zoom	1–8× continuous
Digital image enhancement	Adaptive digital noise reduction

Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm

Image presentation

Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
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FLIR T640bx 25° (incl. Wi-Fi)

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Image presentation	
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Viewfinder	Built-in 800 × 480 pixels
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none"> -40°C to +150°C (-40°F to +302°F) +100°C to +650°C (+212°F to +1202°F)
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes or circles) with max./min./average (in post-acquisition analysis)
Profile	1 line profile with max/min temp
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area and profile
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets (in live images)	The user can select and combine measurements from any number of available spots/boxes/circles/profiles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava



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Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible
Humidity alarm	1 humidity alarm, including dew point alarm
Insulation alarm	1 insulation alarm

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none">• Simultaneous storage of thermal and digital photo in same JPEG file.• Optional to store digital photo as a separate JPEG file.
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image

Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLINK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none">• Instant Report (*.pdf file) in camera• Separate PC software with extensive report generation

Geographic Information System	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image

Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card



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Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none">• MPEG-4 using Wi-Fi• Uncompressed colorized video using USB
Visual video streaming	<ul style="list-style-type: none">• MPEG-4 using Wi-Fi• Uncompressed colorized video using USB

Digital camera	
Built-in digital camera	5 Mpxels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards

USB	
USB	<ul style="list-style-type: none">• USB-A: Connect external USB device• USB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB 2.0 high speed

Video output	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible

Radio	
Wi-Fi	<ul style="list-style-type: none">• Standard: 802.11 b/g• Frequency range: 2412–2462 MHz• Max. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger



FLIR T640bx 25° (incl. Wi-Fi)

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Power system	
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery (2 ea.)• Battery charger• Bluetooth headset• Calibration certificate• Printed documentation• HDMI-DVI cable• HDMI-HDMI cable• Hard transport case• Large eyecap• Lens cap• Memory card• Neck strap• Power supply, incl. multi-plugs• Tripod adapter• USB cable, Std A to Mini-B
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558007068
UPC-12	845188007409

Supplies & accessories:

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case



FLIR T640bx 25° (incl. Wi-Fi)

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- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50 µm) with case
- T198060; Close-up IR lens, 5.8× (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5× (25 µm) with case
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T190930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case
- T198495; Pouch
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198496; Stylus pen
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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General description

The FLIR T640bx is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 640 × 480 pixel infrared resolution. The FLIR T640bx is flexible and can meet your every need, and has extensive communication options.

Benefits:

- Highest performance with the latest technology: The FLIR T640bx is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. Continuous auto-focus makes the FLIR T640bx the first fully automatic infrared camera on the market.
- Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T640bx allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLINK function transfers readings from external measurement instruments to the infrared image.
- Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools.

Imaging and optical data

IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<30 mK @ +30°C (+86°F)
Field of view (FOV)	45° × 34°
Minimum focus distance	0.15 m (0.49 ft.)
Focal length	13 mm (0.52 in.)
Spatial resolution (IFOV)	1.30 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Continuous, one shot or manual
Digital zoom	1–8× continuous
Digital image enhancement	Adaptive digital noise reduction

Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm

Image presentation

Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
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FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)

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Image presentation	
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Viewfinder	Built-in 800 × 480 pixels
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none">• -40°C to +150°C (-40°F to +302°F)• +100°C to +650°C (+212°F to +1202°F)
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes or circles) with max./min./average (in post-acquisition analysis)
Profile	1 line profile with max/min temp
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area and profile
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets (in live images)	The user can select and combine measurements from any number of available spots/boxes/circles/profiles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava



FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)

P/N: 55904-7623

Revision

43545

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Website

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Customer support

<http://support.flir.com>

Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible
Humidity alarm	1 humidity alarm, including dew point alarm
Insulation alarm	1 insulation alarm

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none">• Simultaneous storage of thermal and digital photo in same JPEG file.• Optional to store digital photo as a separate JPEG file.
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image

Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLINK	Wireless connection (Bluetooth) to: FLIR meters with METERLINK
Report generation	<ul style="list-style-type: none">• Instant Report (*.pdf file) in camera• Separate PC software with extensive report generation

Geographic Information System	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image

Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card



FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)

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Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none">• MPEG-4 using Wi-Fi• Uncompressed colorized video using USB
Visual video streaming	<ul style="list-style-type: none">• MPEG-4 using Wi-Fi• Uncompressed colorized video using USB

Digital camera	
Built-in digital camera	5 Mpxels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards

USB	
USB	<ul style="list-style-type: none">• USB-A: Connect external USB device• USB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB 2.0 high speed

Video output	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible

Radio	
Wi-Fi	<ul style="list-style-type: none">• Standard: 802.11 b/g• Frequency range: 2412–2462 MHz• Max. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger



FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)

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Power system	
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery (2 ea.)• Battery charger• Bluetooth headset• Calibration certificate• Extended calibration certificate• HDMI-DVI cable• HDMI-HDMI cable• Hard transport case• Large eyecap• Lens cap• Memory card• Neck strap• Power supply, incl. multi-plugs• Printed documentation• Tripod adapter• USB cable, Std A to Mini-B
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558012031
UPC-12	845188013134
Country of origin	Sweden

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Supplies & accessories:

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50 µm) with case
- T198060; Close-up IR lens, 5.8× (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5× (25 µm) with case
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- T910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case
- T198495; Pouch
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198496; Stylus pen
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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General description

The FLIR T640bx is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 640 × 480 pixel infrared resolution. The FLIR T640bx is flexible and can meet your every need, and has extensive communication options.

Benefits:

- Highest performance with the latest technology: The FLIR T640bx is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. Continuous auto-focus makes the FLIR T640bx the first fully automatic infrared camera on the market.
- Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T640bx allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLINK function transfers readings from external measurement instruments to the infrared image.
- Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools.

Imaging and optical data

IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<30 mK @ +30°C (+86°F)
Field of view (FOV)	45° × 34°
Minimum focus distance	0.15 m (0.49 ft.)
Focal length	13 mm (0.52 in.)
Spatial resolution (IFOV)	1.30 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Continuous, one shot or manual
Digital zoom	1–8× continuous
Digital image enhancement	Adaptive digital noise reduction

Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm

Image presentation

Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
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FLIR T640bx 45° (incl. Wi-Fi)

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Image presentation	
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Viewfinder	Built-in 800 × 480 pixels
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none"> -40°C to +150°C (-40°F to +302°F) +100°C to +650°C (+212°F to +1202°F)
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes or circles) with max./min./average (in post-acquisition analysis)
Profile	1 line profile with max/min temp
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area and profile
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets (in live images)	The user can select and combine measurements from any number of available spots/boxes/circles/profiles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava



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Customer support

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Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible
Humidity alarm	1 humidity alarm, including dew point alarm
Insulation alarm	1 insulation alarm

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none">• Simultaneous storage of thermal and digital photo in same JPEG file.• Optional to store digital photo as a separate JPEG file.
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image

Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLINK	Wireless connection (Bluetooth) to: FLIR meters with METERLINK
Report generation	<ul style="list-style-type: none">• Instant Report (*.pdf file) in camera• Separate PC software with extensive report generation

Geographic Information System	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image

Video recording in camera	
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card



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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none">• MPEG-4 using Wi-Fi• Uncompressed colorized video using USB
Visual video streaming	<ul style="list-style-type: none">• MPEG-4 using Wi-Fi• Uncompressed colorized video using USB

Digital camera	
Built-in digital camera	5 Mpxels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards

USB	
USB	<ul style="list-style-type: none">• USB-A: Connect external USB device• USB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB 2.0 high speed

Video output	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible

Radio	
Wi-Fi	<ul style="list-style-type: none">• Standard: 802.11 b/g• Frequency range: 2412–2462 MHz• Max. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger



FLIR T640bx 45° (incl. Wi-Fi)

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Power system	
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery (2 ea.)• Battery charger• Bluetooth headset• Calibration certificate• Printed documentation• HDMI-DVI cable• HDMI-HDMI cable• Hard transport case• Large eyecap• Lens cap• Memory card• Neck strap• Power supply, incl. multi-plugs• Tripod adapter• USB cable, Std A to Mini-B
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558007075
UPC-12	845188007416
Country of origin	Sweden

Supplies & accessories:

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- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9x (50 µm) with case
- T198060; Close-up IR lens, 5.8x (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5x (25 µm) with case
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case
- T198495; Pouch
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198496; Stylus pen
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
<p>The FLIR T650sc is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and feature-rich flexibility with superior image quality of 640 × 480 pixel infrared resolution. High accuracy and sensitivity together with radiometric recording and streaming options make the FLIR T650sc well suited for advanced research and development.</p>	
Benefits:	
<ul style="list-style-type: none"> • Tailor made for research and development: The FLIR T650sc has high accuracy and high sensitivity to accurately measure the smallest temperature differences. With real-time radiometric recording by the camera, it is possible to capture fast events on an SD card for further analysis by the supplied analysis software. • Flexible and feature rich: A wide variety of measuring and analysis functions makes the camera flexible and able to meet your every need. A programmable button provides easy access to favorite functions. • Highest performance with the latest technology: The FLIR T650sc is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. Continuous auto-focus makes the FLIR T650sc the first fully automatic infrared camera on the market. • Extensive communication options: The Wi-Fi connectivity of the T650sc allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image. • Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools. 	

Imaging and optical data	
IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<20 mK @ +30°C (+86°F)
Field of view (FOV)	15° × 11°
Minimum focus distance	0.5 m (1.64 ft.)
Focal length	41 mm (1.63 in.)
Spatial resolution (IFOV)	0.41 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Continuous, one shot or manual
Digital zoom	1–8× continuous
Digital image enhancement	Adaptive digital noise reduction

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm



FLIR T650sc 15° (incl. Wi-Fi)

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Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Viewfinder	Built-in 800 × 480 pixels
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none">• -40°C to +150°C (-40°F to +302°F)• +100°C to +650°C (+212°F to +1202°F)• +300°C to +2000°C (+572°F to +3632°F)
Accuracy	±1°C (±1.8°F) or ±1% of reading for limited temperature range for measuring object within +5°C to +120°C (+41°F to +248°F) and ambient temperatures of +10°C to +35°C (+49°F to +95°F). This is only valid for the temperature range -40°C to +120°C (-40°F to +248°F).

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes or circles) with max./min./average (in post-acquisition analysis)
Profile	1 line profile with max/min temp
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area and profile
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets (in live images)	The user can select and combine measurements from any number of available spots/boxes/circles/profiles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature



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Website

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Customer support

<http://support.flir.com>

Measurement analysis	
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava

Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none">• Simultaneous storage of thermal and digital photo in same JPEG file.• Optional to store digital photo as a separate JPEG file.
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image

Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none">• Instant Report (*.pdf file) in camera• Separate PC software with extensive report generation

Geographic Information System	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image



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Video recording in camera	
Radiometric IR video recording	CSQ to memory card
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card

Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB
Visual video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB

Digital camera	
Built-in digital camera	5 Mpixels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards

USB	
USB	<ul style="list-style-type: none">USB-A: Connect external USB deviceUSB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB 2.0 high speed

Video output	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible

Radio	
Wi-Fi	<ul style="list-style-type: none">Standard: 802.11 b/gFrequency range: 2412–2462 MHzMax. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal



FLIR T650sc 15° (incl. Wi-Fi)

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Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)

Environmental data	
Operating temperature range	-15°C to +50°C (+5°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery (2 ea.)• Battery charger• Bluetooth headset• Calibration certificate• FLIR ResearchIR Max 4• Printed documentation• HDMI-DVI cable• HDMI-HDMI cable• Hard transport case• Large eyecap• Lens cap• Memory card• Neck strap• Power supply, incl. multi-plugs• Tripod adapter• USB cable, Std A to Mini-B
Packaging, weight	6.95 kg (15.3 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)



FLIR T650sc 15° (incl. Wi-Fi)

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Shipping information

EAN-13	7332558007082
UPC-12	845188007423
Country of origin	Sweden

Supplies & accessories:

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50 µm) with case
- T198060; Close-up IR lens, 5.8× (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5× (25 µm) with case
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- T1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case
- T198495; Pouch
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198496; Stylus pen
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
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- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
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- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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General description	
<p>The FLIR T650sc is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and feature-rich flexibility with superior image quality of 640 × 480 pixel infrared resolution. High accuracy and sensitivity together with radiometric recording and streaming options make the FLIR T650sc well suited for advanced research and development.</p>	
Benefits:	
<ul style="list-style-type: none"> • Tailor made for research and development: The FLIR T650sc has high accuracy and high sensitivity to accurately measure the smallest temperature differences. With real-time radiometric recording by the camera, it is possible to capture fast events on an SD card for further analysis by the supplied analysis software. • Flexible and feature rich: A wide variety of measuring and analysis functions makes the camera flexible and able to meet your every need. A programmable button provides easy access to favorite functions. • Highest performance with the latest technology: The FLIR T650sc is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. Continuous auto-focus makes the FLIR T650sc the first fully automatic infrared camera on the market. • Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools. 	
Imaging and optical data	
IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<20 mK @ +30°C (+86°F)
Field of view (FOV)	25° × 19°
Minimum focus distance	0.25 m (0.82 ft.)
Focal length	25 mm (0.97 in.)
Spatial resolution (IFOV)	0.68 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Continuous, one shot or manual
Digital zoom	1–8× continuous
Digital image enhancement	Adaptive digital noise reduction
Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm
Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels



FLIR T650sc 25°

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Image presentation	
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Viewfinder	Built-in 800 × 480 pixels
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none"> • -40°C to +150°C (-40°F to +302°F) • +100°C to +650°C (+212°F to +1202°F) • +300°C to +2000°C (+572°F to +3632°F)
Accuracy	<p>±1°C (±1.8°F) or ±1% of reading for limited temperature range for measuring object within +5°C to +120°C (+ 41°F to +248 °F) and ambient temperatures of +10°C to +35°C (+49°F to +95°F).</p> <p>This is only valid for the temperature range -40°C to +120°C (-40°F to +248°F).</p>

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes or circles) with max./min./average (in post-acquisition analysis)
Profile	1 line profile with max/min temp
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area and profile
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets (in live images)	The user can select and combine measurements from any number of available spots/boxes/circles/profiles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation



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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Measurement analysis	
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava

Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, GPS & compass, Language, Time & units, Camera information

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none">Simultaneous storage of thermal and digital photo in same JPEG file.Optional to store digital photo as a separate JPEG file.
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image

Image annotations (in still images)	
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
Report generation	<ul style="list-style-type: none">Instant Report (*.pdf file) in cameraSeparate PC software with extensive report generation

Geographic Information System	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image

Video recording in camera	
Radiometric IR video recording	CSQ to memory card
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card



FLIR T650sc 25°

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Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB
Non-radiometric IR video streaming	Uncompressed colorized video using USB
Visual video streaming	Uncompressed colorized video using USB

Digital camera	
Built-in digital camera	5 Mpixels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB-mini, USB-A, Digital Video Output
SD Card	One card slot for removable SD memory cards

USB	
USB	<ul style="list-style-type: none">• USB-A: Connect external USB device• USB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB 2.0 high speed

Video output	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)

Environmental data	
Operating temperature range	-15°C to +50°C (+5°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles



FLIR T650sc 25°

P/N: 55904-8704

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Environmental data	
EMC	<ul style="list-style-type: none">ETSI EN 301 489-1 (radio)ETSI EN 301 489-17EN 61000-6-2 (Immunity)EN 61000-6-3 (Emission)FCC 47 CFR Part 15 Class B (Emission)ICES-003
Radio spectrum	<ul style="list-style-type: none">ETSI EN 300 328FCC Part 15.247RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L x W x H)	143 x 195 x 95 mm (5.6 x 7.7 x 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">Infrared camera with lensBattery (2 ea.)Battery chargerCalibration certificateFLIR ResearchIR Max 4Printed documentationHDMI-DVI cableHDMI-HDMI cableHard transport caseLarge eyecapLens capMemory cardNeck strapPower supply, incl. multi-plugsTripod adapterUSB cable, Std A to Mini-B
Packaging, weight	6.95 kg (15.3 lb.)
Packaging, size	495 x 192 x 370 mm (19.49 x 7.56 x 14.57 in.)
EAN-13	7332558012819
UPC-12	845188014360
Country of origin	Sweden

Supplies & accessories:

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9x (50 µm) with case
- T198060; Close-up IR lens, 5.8x (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5x (25 µm) with case
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case

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- T198495; Pouch
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T911093; Tool belt
- 19250-100; IR Window 2 in.
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198496; Stylus pen
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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General description	
<p>The FLIR T650sc is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and feature-rich flexibility with superior image quality of 640 × 480 pixel infrared resolution. High accuracy and sensitivity together with radiometric recording and streaming options make the FLIR T650sc well suited for advanced research and development.</p>	
Benefits:	
<ul style="list-style-type: none"> • Tailor made for research and development: The FLIR T650sc has high accuracy and high sensitivity to accurately measure the smallest temperature differences. With real-time radiometric recording by the camera, it is possible to capture fast events on an SD card for further analysis by the supplied analysis software. • Flexible and feature rich: A wide variety of measuring and analysis functions makes the camera flexible and able to meet your every need. A programmable button provides easy access to favorite functions. • Highest performance with the latest technology: The FLIR T650sc is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. Continuous auto-focus makes the FLIR T650sc the first fully automatic infrared camera on the market. • Extensive communication options: The Wi-Fi connectivity of the T650sc allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image. • Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools. 	

Imaging and optical data	
IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<20 mK @ +30°C (+86°F)
Field of view (FOV)	25° × 19°
Minimum focus distance	0.25 m (0.82 ft.)
Focal length	25 mm (0.97 in.)
Spatial resolution (IFOV)	0.68 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Continuous, one shot or manual
Digital zoom	1–8× continuous
Digital image enhancement	Adaptive digital noise reduction

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm



FLIR T650sc 25° (incl. Wi-Fi)

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Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Viewfinder	Built-in 800 × 480 pixels
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none"> • -40°C to +150°C (-40°F to +302°F) • +100°C to +650°C (+212°F to +1202°F) • +300°C to +2000°C (+572°F to +3632°F)
Accuracy	±1°C (±1.8°F) or ±1% of reading for limited temperature range for measuring object within +5°C to +120°C (+41°F to +248°F) and ambient temperatures of +10°C to +35°C (+49°F to +95°F). This is only valid for the temperature range -40°C to +120°C (-40°F to +248°F).

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes or circles) with max./min./average (in post-acquisition analysis)
Profile	1 line profile with max/min temp
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area and profile
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets (in live images)	The user can select and combine measurements from any number of available spots/boxes/circles/profiles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature



FLIR T650sc 25° (incl. Wi-Fi)

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Measurement analysis	
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava

Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none">• Simultaneous storage of thermal and digital photo in same JPEG file.• Optional to store digital photo as a separate JPEG file.
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image

Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none">• Instant Report (*.pdf file) in camera• Separate PC software with extensive report generation

Geographic Information System	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image



FLIR T650sc 25° (incl. Wi-Fi)

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Website

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Video recording in camera	
Radiometric IR video recording	CSQ to memory card
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card

Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB
Visual video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB

Digital camera	
Built-in digital camera	5 Mpixels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards

USB	
USB	<ul style="list-style-type: none">USB-A: Connect external USB deviceUSB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB 2.0 high speed

Video output	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible

Radio	
Wi-Fi	<ul style="list-style-type: none">Standard: 802.11 b/gFrequency range: 2412–2462 MHzMax. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal



FLIR T650sc 25° (incl. Wi-Fi)

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Website

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Customer support

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Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)

Environmental data	
Operating temperature range	-15°C to +50°C (+5°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery (2 ea.)• Battery charger• Bluetooth headset• Calibration certificate• FLIR ResearchIR Max 4• Printed documentation• HDMI-DVI cable• HDMI-HDMI cable• Hard transport case• Large eyecap• Lens cap• Memory card• Neck strap• Power supply, incl. multi-plugs• Tripod adapter• USB cable, Std A to Mini-B
Packaging, weight	6.95 kg (15.3 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)



FLIR T650sc 25° (incl. Wi-Fi)

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Website

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Customer support

<http://support.flir.com>

Shipping information

EAN-13	7332558007099
UPC-12	845188007430
Country of origin	Sweden

Supplies & accessories:

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50 µm) with case
- T198060; Close-up IR lens, 5.8× (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5× (25 µm) with case
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- T1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case
- T198495; Pouch
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198496; Stylus pen
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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General description	
<p>The FLIR T650sc is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and feature-rich flexibility with superior image quality of 640 × 480 pixel infrared resolution. High accuracy and sensitivity together with radiometric recording and streaming options make the FLIR T650sc well suited for advanced research and development.</p>	
Benefits:	
<ul style="list-style-type: none"> • Tailor made for research and development: The FLIR T650sc has high accuracy and high sensitivity to accurately measure the smallest temperature differences. With real-time radiometric recording by the camera, it is possible to capture fast events on an SD card for further analysis by the supplied analysis software. • Flexible and feature rich: A wide variety of measuring and analysis functions makes the camera flexible and able to meet your every need. A programmable button provides easy access to favorite functions. • Highest performance with the latest technology: The FLIR T650sc is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. Continuous auto-focus makes the FLIR T650sc the first fully automatic infrared camera on the market. • Extensive communication options: The Wi-Fi connectivity of the T650sc allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image. • Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools. 	

Imaging and optical data	
IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<20 mK @ +30°C (+86°F)
Field of view (FOV)	25° × 19°
Minimum focus distance	0.25 m (0.82 ft.)
Focal length	25 mm (0.97 in.)
Spatial resolution (IFOV)	0.68 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Continuous, one shot or manual
Digital zoom	1–8× continuous
Digital image enhancement	Adaptive digital noise reduction

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm



FLIR T650sc 25° and 15° w/case

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Website

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Customer support

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Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Viewfinder	Built-in 800 × 480 pixels
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none"> • -40°C to +150°C (-40°F to +302°F) • +100°C to +650°C (+212°F to +1202°F) • +300°C to +2000°C (+572°F to +3632°F)
Accuracy	±1°C (±1.8°F) or ±1% of reading for limited temperature range for measuring object within +5°C to +120°C (+41°F to +248°F) and ambient temperatures of +10°C to +35°C (+49°F to +95°F). This is only valid for the temperature range -40°C to +120°C (-40°F to +248°F).

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes or circles) with max./min./average (in post-acquisition analysis)
Profile	1 line profile with max/min temp
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area and profile
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets (in live images)	The user can select and combine measurements from any number of available spots/boxes/circles/profiles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature



FLIR T650sc 25° and 15° w/case

P/N: 55904-7824

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Measurement analysis	
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava

Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none"> Simultaneous storage of thermal and digital photo in same JPEG file. Optional to store digital photo as a separate JPEG file.
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image

Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> Instant Report (*.pdf file) in camera Separate PC software with extensive report generation

Geographic Information System	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image



FLIR T650sc 25° and 15° w/case

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Video recording in camera	
Radiometric IR video recording	CSQ to memory card
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card

Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB
Visual video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB

Digital camera	
Built-in digital camera	5 Mpixels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards

USB	
USB	<ul style="list-style-type: none">USB-A: Connect external USB deviceUSB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB 2.0 high speed

Video output	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible

Radio	
Wi-Fi	<ul style="list-style-type: none">Standard: 802.11 b/gFrequency range: 2412–2462 MHzMax. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal



FLIR T650sc 25° and 15° w/case

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)

Environmental data	
Operating temperature range	-15°C to +50°C (+5°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery (2 ea.)• Battery charger• Bluetooth headset• Calibration certificate• FLIR ResearchIR Max 4• HDMI-DVI cable• HDMI-HDMI cable• Hard transport case• IR lens, f=41.3 mm (15°) with case• Large eyecap• Lens cap• Memory card• Neck strap• Power supply, incl. multi-plugs• Printed documentation• Tripod adapter• USB cable, Std A to Mini-B
EAN-13	7332558012048



FLIR T650sc 25° and 15° w/case

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Shipping information	
UPC-12	845188013141
Country of origin	Sweden

Supplies & accessories:

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9x (50 µm) with case
- T198060; Close-up IR lens, 5.8x (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5x (25 µm) with case
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case
- T198495; Pouch
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198496; Stylus pen
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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General description	
<p>The FLIR T650sc is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and feature-rich flexibility with superior image quality of 640 × 480 pixel infrared resolution. High accuracy and sensitivity together with radiometric recording and streaming options make the FLIR T650sc well suited for advanced research and development.</p>	
Benefits:	
<ul style="list-style-type: none"> • Tailor made for research and development: The FLIR T650sc has high accuracy and high sensitivity to accurately measure the smallest temperature differences. With real-time radiometric recording by the camera, it is possible to capture fast events on an SD card for further analysis by the supplied analysis software. • Flexible and feature rich: A wide variety of measuring and analysis functions makes the camera flexible and able to meet your every need. A programmable button provides easy access to favorite functions. • Highest performance with the latest technology: The FLIR T650sc is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. Continuous auto-focus makes the FLIR T650sc the first fully automatic infrared camera on the market. • Extensive communication options: The Wi-Fi connectivity of the T650sc allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image. • Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools. 	

Imaging and optical data	
IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<20 mK @ +30°C (+86°F)
Field of view (FOV)	25° × 19°
Minimum focus distance	0.25 m (0.82 ft.)
Focal length	25 mm (0.97 in.)
Spatial resolution (IFOV)	0.68 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Continuous, one shot or manual
Digital zoom	1–8× continuous
Digital image enhancement	Adaptive digital noise reduction

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm



FLIR T650sc 25° and 45° w/case

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Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Viewfinder	Built-in 800 × 480 pixels
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none"> • -40°C to +150°C (-40°F to +302°F) • +100°C to +650°C (+212°F to +1202°F) • +300°C to +2000°C (+572°F to +3632°F)
Accuracy	±1°C (±1.8°F) or ±1% of reading for limited temperature range for measuring object within +5°C to +120°C (+41°F to +248°F) and ambient temperatures of +10°C to +35°C (+49°F to +95°F). This is only valid for the temperature range -40°C to +120°C (-40°F to +248°F).

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes or circles) with max./min./average (in post-acquisition analysis)
Profile	1 line profile with max/min temp
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area and profile
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets (in live images)	The user can select and combine measurements from any number of available spots/boxes/circles/profiles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature



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Measurement analysis	
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava

Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none"> Simultaneous storage of thermal and digital photo in same JPEG file. Optional to store digital photo as a separate JPEG file.
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image

Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> Instant Report (*.pdf file) in camera Separate PC software with extensive report generation

Geographic Information System	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image



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Video recording in camera	
Radiometric IR video recording	CSQ to memory card
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card

Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB
Visual video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB

Digital camera	
Built-in digital camera	5 Mpixels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards

USB	
USB	<ul style="list-style-type: none">USB-A: Connect external USB deviceUSB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB 2.0 high speed

Video output	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible

Radio	
Wi-Fi	<ul style="list-style-type: none">Standard: 802.11 b/gFrequency range: 2412–2462 MHzMax. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal



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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)

Environmental data	
Operating temperature range	-15°C to +50°C (+5°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery (2 ea.)• Battery charger• Bluetooth headset• Calibration certificate• FLIR ResearchIR Max 4• HDMI-DVI cable• HDMI-HDMI cable• Hard transport case• IR lens, f=13.1 mm (45°) with case• Large eyecap• Lens cap• Memory card• Neck strap• Power supply, incl. multi-plugs• Printed documentation• Tripod adapter• USB cable, Std A to Mini-B
EAN-13	7332558012055



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Website<http://www.flir.com>**Customer support**<http://support.flir.com>**Shipping information**

UPC-12	845188013158
Country of origin	Sweden

Supplies & accessories:

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9x (50 µm) with case
- T198060; Close-up IR lens, 5.8x (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5x (25 µm) with case
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case
- T198495; Pouch
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198496; Stylus pen
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
<p>The FLIR T650sc is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and feature-rich flexibility with superior image quality of 640 × 480 pixel infrared resolution. High accuracy and sensitivity together with radiometric recording and streaming options make the FLIR T650sc well suited for advanced research and development.</p>	
Benefits:	
<ul style="list-style-type: none"> • Tailor made for research and development: The FLIR T650sc has high accuracy and high sensitivity to accurately measure the smallest temperature differences. With real-time radiometric recording by the camera, it is possible to capture fast events on an SD card for further analysis by the supplied analysis software. • Flexible and feature rich: A wide variety of measuring and analysis functions makes the camera flexible and able to meet your every need. A programmable button provides easy access to favorite functions. • Highest performance with the latest technology: The FLIR T650sc is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. Continuous auto-focus makes the FLIR T650sc the first fully automatic infrared camera on the market. • Extensive communication options: The Wi-Fi connectivity of the T650sc allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image. • Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools. 	

Imaging and optical data	
IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<20 mK @ +30°C (+86°F)
Field of view (FOV)	45° × 34°
Minimum focus distance	0.15 m (0.49 ft.)
Focal length	13 mm (0.52 in.)
Spatial resolution (IFOV)	1.30 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Continuous, one shot or manual
Digital zoom	1–8× continuous
Digital image enhancement	Adaptive digital noise reduction

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm



FLIR T650sc 45° (incl. Wi-Fi)

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Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Viewfinder	Built-in 800 × 480 pixels
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none"> • -40°C to +150°C (-40°F to +302°F) • +100°C to +650°C (+212°F to +1202°F) • +300°C to +2000°C (+572°F to +3632°F)
Accuracy	±1°C (±1.8°F) or ±1% of reading for limited temperature range for measuring object within +5°C to +120°C (+41°F to +248°F) and ambient temperatures of +10°C to +35°C (+49°F to +95°F). This is only valid for the temperature range -40°C to +120°C (-40°F to +248°F).

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes or circles) with max./min./average (in post-acquisition analysis)
Profile	1 line profile with max/min temp
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area and profile
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets (in live images)	The user can select and combine measurements from any number of available spots/boxes/circles/profiles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature



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Website

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Customer support

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Measurement analysis	
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava

Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none">• Simultaneous storage of thermal and digital photo in same JPEG file.• Optional to store digital photo as a separate JPEG file.
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image

Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none">• Instant Report (*.pdf file) in camera• Separate PC software with extensive report generation

Geographic Information System	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image



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Video recording in camera	
Radiometric IR video recording	CSQ to memory card
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card

Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB
Visual video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB

Digital camera	
Built-in digital camera	5 Mpixels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards

USB	
USB	<ul style="list-style-type: none">USB-A: Connect external USB deviceUSB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB 2.0 high speed

Video output	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible

Radio	
Wi-Fi	<ul style="list-style-type: none">Standard: 802.11 b/gFrequency range: 2412–2462 MHzMax. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal



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Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)

Environmental data	
Operating temperature range	-15°C to +50°C (+5°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery (2 ea.)• Battery charger• Bluetooth headset• Calibration certificate• FLIR ResearchIR Max 4• Printed documentation• HDMI-DVI cable• HDMI-HDMI cable• Hard transport case• Large eyecap• Lens cap• Memory card• Neck strap• Power supply, incl. multi-plugs• Tripod adapter• USB cable, Std A to Mini-B
Packaging, weight	6.95 kg (15.3 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)



FLIR T650sc 45° (incl. Wi-Fi)

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Shipping information

EAN-13	7332558007105
UPC-12	845188007447
Country of origin	Sweden

Supplies & accessories:

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50 µm) with case
- T198060; Close-up IR lens, 5.8× (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5× (25 µm) with case
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- T910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case
- T198495; Pouch
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198496; Stylus pen
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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General description	
The FLIR T660 is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 640 × 480 pixel infrared resolution. The FLIR T660 is flexible and can meet your every need.	
Benefits:	
<ul style="list-style-type: none"> • Highest performance with the latest technology: The FLIR T660 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. Continuous auto-focus makes the FLIR T660 the first fully automatic infrared camera on the market. • Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views. • Extensive communication options: The Wi-Fi connectivity of the FLIR T660 allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image. • Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools. 	

Imaging and optical data	
IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<20 mK @ +30°C (+86°F)
Field of view (FOV)	15° × 11°
Minimum focus distance	0.5 m (1.64 ft.)
Focal length	41 mm (1.63 in.)
Spatial resolution (IFOV)	0.41 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Continuous, one shot or manual
Digital zoom	1–8× continuous
Digital image enhancement	Adaptive digital noise reduction

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm

Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels



FLIR T660 15° (incl. Wi-Fi and Ext. cal.)

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Image presentation	
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Viewfinder	Built-in 800 × 480 pixels
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none"> • -40°C to +150°C (-40°F to +302°F) • +100°C to +650°C (+212°F to +1202°F) • +300°C to +2000°C (+572°F to +3632°F)
Accuracy	<ul style="list-style-type: none"> • ±1°C (±1.8°F) or ±1% of reading for limited temperature range. • ±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes or circles) with max./min./average (in post-acquisition analysis)
Profile	1 line profile with max/min temp
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area and profile
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets (in live images)	The user can select and combine measurements from any number of available spots/boxes/circles/profiles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava



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Website

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Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none"> Simultaneous storage of thermal and digital photo in same JPEG file. Optional to store digital photo as a separate JPEG file.
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image

Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> Instant Report (*.pdf file) in camera Separate PC software with extensive report generation

Geographic Information System	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image

Video recording in camera	
Radiometric IR video recording	CSQ to memory card
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card



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Website

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Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB
Visual video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB

Digital camera	
Built-in digital camera	5 Mpxels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards

USB	
USB	<ul style="list-style-type: none">USB-A: Connect external USB deviceUSB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB 2.0 high speed

Video output	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible

Radio	
Wi-Fi	<ul style="list-style-type: none">Standard: 802.11 b/gFrequency range: 2412–2462 MHzMax. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger



FLIR T660 15° (incl. Wi-Fi and Ext. cal.)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Power system	
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery (2 ea.)• Battery charger• Bluetooth headset• Calibration certificate• Extended calibration certificate• HDMI-DVI cable• HDMI-HDMI cable• Hard transport case• Large eyecap• Lens cap• Memory card• Neck strap• Power supply, incl. multi-plugs• Printed documentation• Tripod adapter• USB cable, Std A to Mini-B
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558012079
UPC-12	845188013172
Country of origin	Sweden

P/N: 55904-8423

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Supplies & accessories:

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50 µm) with case
- T198060; Close-up IR lens, 5.8× (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5× (25 µm) with case
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- T910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case
- T198495; Pouch
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198496; Stylus pen
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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General description

The FLIR T660 is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 640 × 480 pixel infrared resolution. The FLIR T660 is flexible and can meet your every need.

Benefits:

- Highest performance with the latest technology: The FLIR T660 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. Continuous auto-focus makes the FLIR T660 the first fully automatic infrared camera on the market.
- Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T660 allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.
- Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools.

Imaging and optical data

IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<20 mK @ +30°C (+86°F)
Field of view (FOV)	15° × 11°
Minimum focus distance	0.5 m (1.64 ft.)
Focal length	41 mm (1.63 in.)
Spatial resolution (IFOV)	0.41 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Continuous, one shot or manual
Digital zoom	1–8× continuous
Digital image enhancement	Adaptive digital noise reduction

Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm

Image presentation

Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
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FLIR T660 15° (incl. Wi-Fi)

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Image presentation	
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Viewfinder	Built-in 800 × 480 pixels
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none">• -40°C to +150°C (-40°F to +302°F)• +100°C to +650°C (+212°F to +1202°F)• +300°C to +2000°C (+572°F to +3632°F)
Accuracy	<ul style="list-style-type: none">• ±1°C (±1.8°F) or ±1% of reading for limited temperature range.• ±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes or circles) with max./min./average (in post-acquisition analysis)
Profile	1 line profile with max/min temp
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area and profile
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets (in live images)	The user can select and combine measurements from any number of available spots/boxes/circles/profiles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava



FLIR T660 15° (incl. Wi-Fi)

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Customer support

<http://support.flir.com>

Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none"> • Simultaneous storage of thermal and digital photo in same JPEG file. • Optional to store digital photo as a separate JPEG file.
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image

Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> • Instant Report (*.pdf file) in camera • Separate PC software with extensive report generation

Geographic Information System	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image

Video recording in camera	
Radiometric IR video recording	CSQ to memory card
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card



FLIR T660 15° (incl. Wi-Fi)

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Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB
Visual video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB

Digital camera	
Built-in digital camera	5 Mpxels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards

USB	
USB	<ul style="list-style-type: none">USB-A: Connect external USB deviceUSB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB 2.0 high speed

Video output	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible

Radio	
Wi-Fi	<ul style="list-style-type: none">Standard: 802.11 b/gFrequency range: 2412–2462 MHzMax. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger



FLIR T660 15° (incl. Wi-Fi)

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Power system	
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery (2 ea.)• Battery charger• Bluetooth headset• Calibration certificate• Printed documentation• HDMI-DVI cable• HDMI-HDMI cable• Hard transport case• Large eyecap• Lens cap• Memory card• Neck strap• Power supply, incl. multi-plugs• Tripod adapter• USB cable, Std A to Mini-B
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558008751
UPC-12	845188009274
Country of origin	Sweden

Supplies & accessories:

P/N: 55904-8422

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- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50 µm) with case
- T198060; Close-up IR lens, 5.8× (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5× (25 µm) with case
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case
- T198495; Pouch
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198496; Stylus pen
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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Website

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Customer support

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General description	
The FLIR T660 is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 640 × 480 pixel infrared resolution. The FLIR T660 is flexible and can meet your every need.	
Benefits:	
<ul style="list-style-type: none"> • Highest performance with the latest technology: The FLIR T660 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. Continuous auto-focus makes the FLIR T660 the first fully automatic infrared camera on the market. • Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views. • Extensive communication options: The Wi-Fi connectivity of the FLIR T640 allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image. • Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools. 	

Imaging and optical data	
IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<20 mK @ +30°C (+86°F)
Field of view (FOV)	25° × 19°
Minimum focus distance	0.25 m (0.82 ft.)
Focal length	25 mm (0.97 in.)
Spatial resolution (IFOV)	0.68 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Continuous, one shot or manual
Digital zoom	1–8× continuous
Digital image enhancement	Adaptive digital noise reduction

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm

Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels



FLIR T660 25° (incl. Wi-Fi and Ext. cal.)

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Website

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Customer support

<http://support.flir.com>

Image presentation	
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Viewfinder	Built-in 800 × 480 pixels
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none"> • -40°C to +150°C (-40°F to +302°F) • +100°C to +650°C (+212°F to +1202°F) • +300°C to +2000°C (+572°F to +3632°F)
Accuracy	<ul style="list-style-type: none"> • ±1°C (±1.8°F) or ±1% of reading for limited temperature range. • ±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes or circles) with max./min./average (in post-acquisition analysis)
Profile	1 line profile with max/min temp
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area and profile
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets (in live images)	The user can select and combine measurements from any number of available spots/boxes/circles/profiles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava



FLIR T660 25° (incl. Wi-Fi and Ext. cal.)

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Website

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Customer support

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Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none"> • Simultaneous storage of thermal and digital photo in same JPEG file. • Optional to store digital photo as a separate JPEG file.
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image

Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> • Instant Report (*.pdf file) in camera • Separate PC software with extensive report generation

Geographic Information System	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image

Video recording in camera	
Radiometric IR video recording	CSQ to memory card
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card



FLIR T660 25° (incl. Wi-Fi and Ext. cal.)

P/N: 55904-8523

Revision

43545

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB
Visual video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB

Digital camera	
Built-in digital camera	5 Mpxels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards

USB	
USB	<ul style="list-style-type: none">USB-A: Connect external USB deviceUSB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB 2.0 high speed

Video output	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible

Radio	
Wi-Fi	<ul style="list-style-type: none">Standard: 802.11 b/gFrequency range: 2412–2462 MHzMax. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger



FLIR T660 25° (incl. Wi-Fi and Ext. cal.)

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Power system	
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery (2 ea.)• Battery charger• Bluetooth headset• Calibration certificate• Extended calibration certificate• HDMI-DVI cable• HDMI-HDMI cable• Hard transport case• Large eyecap• Lens cap• Memory card• Neck strap• Power supply, incl. multi-plugs• Printed documentation• Tripod adapter• USB cable, Std A to Mini-B
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558012086
UPC-12	845188013189
Country of origin	Sweden

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Customer support

<http://support.flir.com>

Supplies & accessories:

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50 µm) with case
- T198060; Close-up IR lens, 5.8× (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5× (25 µm) with case
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- T910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case
- T198495; Pouch
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198496; Stylus pen
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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General description

The FLIR T660 is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 640 × 480 pixel infrared resolution. The FLIR T660 is flexible and can meet your every need.

Benefits:

- Highest performance with the latest technology: The FLIR T660 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. Continuous auto-focus makes the FLIR T660 the first fully automatic infrared camera on the market.
- Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T640 allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.
- Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools.

Imaging and optical data

IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<20 mK @ +30°C (+86°F)
Field of view (FOV)	25° × 19°
Minimum focus distance	0.25 m (0.82 ft.)
Focal length	25 mm (0.97 in.)
Spatial resolution (IFOV)	0.68 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Continuous, one shot or manual
Digital zoom	1–8× continuous
Digital image enhancement	Adaptive digital noise reduction

Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm

Image presentation

Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
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FLIR T660 25° (incl. Wi-Fi)

P/N: 55904-8522

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Image presentation	
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Viewfinder	Built-in 800 × 480 pixels
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none">• -40°C to +150°C (-40°F to +302°F)• +100°C to +650°C (+212°F to +1202°F)• +300°C to +2000°C (+572°F to +3632°F)
Accuracy	<ul style="list-style-type: none">• ±1°C (±1.8°F) or ±1% of reading for limited temperature range.• ±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes or circles) with max./min./average (in post-acquisition analysis)
Profile	1 line profile with max/min temp
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area and profile
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets (in live images)	The user can select and combine measurements from any number of available spots/boxes/circles/profiles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava



FLIR T660 25° (incl. Wi-Fi)

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Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none">• Simultaneous storage of thermal and digital photo in same JPEG file.• Optional to store digital photo as a separate JPEG file.
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image

Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none">• Instant Report (*.pdf file) in camera• Separate PC software with extensive report generation

Geographic Information System	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image

Video recording in camera	
Radiometric IR video recording	CSQ to memory card
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card



FLIR T660 25° (incl. Wi-Fi)

P/N: 55904-8522

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Website

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Customer support

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Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB
Visual video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB

Digital camera	
Built-in digital camera	5 Mpxels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards

USB	
USB	<ul style="list-style-type: none">USB-A: Connect external USB deviceUSB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB 2.0 high speed

Video output	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible

Radio	
Wi-Fi	<ul style="list-style-type: none">Standard: 802.11 b/gFrequency range: 2412–2462 MHzMax. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger



FLIR T660 25° (incl. Wi-Fi)

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Power system	
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery (2 ea.)• Battery charger• Bluetooth headset• Calibration certificate• Printed documentation• HDMI-DVI cable• HDMI-HDMI cable• Hard transport case• Large eyecap• Lens cap• Memory card• Neck strap• Power supply, incl. multi-plugs• Tripod adapter• USB cable, Std A to Mini-B
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558008720
UPC-12	845188009243
Country of origin	Sweden

Supplies & accessories:

P/N: 55904-8522

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Customer support

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- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50 µm) with case
- T198060; Close-up IR lens, 5.8× (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5× (25 µm) with case
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case
- T198495; Pouch
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198496; Stylus pen
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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Website

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Customer support

<http://support.flir.com>



General description

The FLIR T660 is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 640 × 480 pixel infrared resolution. The FLIR T660 is flexible and can meet your every need.

Benefits:

- Highest performance with the latest technology: The FLIR T660 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. Continuous auto-focus makes the FLIR T660 the first fully automatic infrared camera on the market.
- Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T640 allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.
- Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools.

Imaging and optical data

IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<20 mK @ +30°C (+86°F)
Field of view (FOV)	25° × 19°
Minimum focus distance	0.25 m (0.82 ft.)
Focal length	25 mm (0.97 in.)
Spatial resolution (IFOV)	0.68 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Continuous, one shot or manual
Digital zoom	1–8× continuous
Digital image enhancement	Adaptive digital noise reduction

Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm

Image presentation

Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
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FLIR T660 25° and 15° w/case

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Image presentation	
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Viewfinder	Built-in 800 × 480 pixels
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none"> • -40°C to +150°C (-40°F to +302°F) • +100°C to +650°C (+212°F to +1202°F) • +300°C to +2000°C (+572°F to +3632°F)
Accuracy	<ul style="list-style-type: none"> • ±1°C (±1.8°F) or ±1% of reading for limited temperature range. • ±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes or circles) with max./min./average (in post-acquisition analysis)
Profile	1 line profile with max/min temp
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area and profile
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets (in live images)	The user can select and combine measurements from any number of available spots/boxes/circles/profiles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava



FLIR T660 25° and 15° w/case

P/N: 55904-8524

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Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none"> • Simultaneous storage of thermal and digital photo in same JPEG file. • Optional to store digital photo as a separate JPEG file.
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image

Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> • Instant Report (*.pdf file) in camera • Separate PC software with extensive report generation

Geographic Information System	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image

Video recording in camera	
Radiometric IR video recording	CSQ to memory card
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card



FLIR T660 25° and 15° w/case

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Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB
Visual video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB

Digital camera	
Built-in digital camera	5 Mpxels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards

USB	
USB	<ul style="list-style-type: none">USB-A: Connect external USB deviceUSB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB 2.0 high speed

Video output	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible

Radio	
Wi-Fi	<ul style="list-style-type: none">Standard: 802.11 b/gFrequency range: 2412–2462 MHzMax. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger



FLIR T660 25° and 15° w/case

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Power system	
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)

Environmental data	
Operating temperature range	-15°C to +50°C (+5°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L x W x H)	143 x 195 x 95 mm (5.6 x 7.7 x 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery (2 ea.)• Battery charger• Bluetooth headset• Calibration certificate• HDMI-DVI cable• HDMI-HDMI cable• Hard transport case• IR lens, f=41.3 mm (15°) with case• Large eyecap• Lens cap• Memory card• Neck strap• Power supply, incl. multi-plugs• Printed documentation• Tripod adapter• USB cable, Std A to Mini-B
EAN-13	7332558012093
UPC-12	845188013196
Country of origin	Sweden

Supplies & accessories:

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case

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- T198059; Close-up IR lens, 2.9× (50 µm) with case
- T198060; Close-up IR lens, 5.8× (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5× (25 µm) with case
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case
- T198495; Pouch
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198496; Stylus pen
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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General description	
The FLIR T660 is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 640 × 480 pixel infrared resolution. The FLIR T660 is flexible and can meet your every need.	
Benefits:	
<ul style="list-style-type: none"> • Highest performance with the latest technology: The FLIR T660 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. Continuous auto-focus makes the FLIR T660 the first fully automatic infrared camera on the market. • Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views. • Extensive communication options: The Wi-Fi connectivity of the FLIR T640 allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image. • Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools. 	

Imaging and optical data	
IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<20 mK @ +30°C (+86°F)
Field of view (FOV)	25° × 19°
Minimum focus distance	0.25 m (0.82 ft.)
Focal length	25 mm (0.97 in.)
Spatial resolution (IFOV)	0.68 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Continuous, one shot or manual
Digital zoom	1–8× continuous
Digital image enhancement	Adaptive digital noise reduction

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm

Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels



FLIR T660 25° and 45° w/case

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Image presentation	
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Viewfinder	Built-in 800 × 480 pixels
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none"> • -40°C to +150°C (-40°F to +302°F) • +100°C to +650°C (+212°F to +1202°F) • +300°C to +2000°C (+572°F to +3632°F)
Accuracy	<ul style="list-style-type: none"> • ±1°C (±1.8°F) or ±1% of reading for limited temperature range. • ±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes or circles) with max./min./average (in post-acquisition analysis)
Profile	1 line profile with max/min temp
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area and profile
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets (in live images)	The user can select and combine measurements from any number of available spots/boxes/circles/profiles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava



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Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none"> Simultaneous storage of thermal and digital photo in same JPEG file. Optional to store digital photo as a separate JPEG file.
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image

Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> Instant Report (*.pdf file) in camera Separate PC software with extensive report generation

Geographic Information System	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image

Video recording in camera	
Radiometric IR video recording	CSQ to memory card
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card



FLIR T660 25° and 45° w/case

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Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none">• MPEG-4 using Wi-Fi• Uncompressed colorized video using USB
Visual video streaming	<ul style="list-style-type: none">• MPEG-4 using Wi-Fi• Uncompressed colorized video using USB

Digital camera	
Built-in digital camera	5 Mpxels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards

USB	
USB	<ul style="list-style-type: none">• USB-A: Connect external USB device• USB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB 2.0 high speed

Video output	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible

Radio	
Wi-Fi	<ul style="list-style-type: none">• Standard: 802.11 b/g• Frequency range: 2412–2462 MHz• Max. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger



FLIR T660 25° and 45° w/case

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Power system	
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery (2 ea.)• Battery charger• Bluetooth headset• Calibration certificate• HDMI-DVI cable• HDMI-HDMI cable• Hard transport case• IR lens, f=13.1 mm (45°) with case• Large eyecap• Lens cap• Memory card• Neck strap• Power supply, incl. multi-plugs• Printed documentation• Tripod adapter• USB cable, Std A to Mini-B
EAN-13	7332558012109
UPC-12	845188013202
Country of origin	Sweden

Supplies & accessories:

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case



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- T198059; Close-up IR lens, 2.9x (50 µm) with case
- T198060; Close-up IR lens, 5.8x (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5x (25 µm) with case
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case
- T198495; Pouch
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198496; Stylus pen
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

The FLIR T660 is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 640 × 480 pixel infrared resolution. The FLIR T660 is flexible and can meet your every need.

Benefits:

- Highest performance with the latest technology: The FLIR T660 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. Continuous auto-focus makes the FLIR T660 the first fully automatic infrared camera on the market.
- Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T660 allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image.
- Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools.

Imaging and optical data

IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<20 mK @ +30°C (+86°F)
Field of view (FOV)	45° × 34°
Minimum focus distance	0.15 m (0.49 ft.)
Focal length	13 mm (0.52 in.)
Spatial resolution (IFOV)	1.30 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Continuous, one shot or manual
Digital zoom	1–8× continuous
Digital image enhancement	Adaptive digital noise reduction

Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm

Image presentation

Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
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FLIR T660 45° (incl. Wi-Fi and Ext. cal.)

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Image presentation	
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Viewfinder	Built-in 800 × 480 pixels
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none">• -40°C to +150°C (-40°F to +302°F)• +100°C to +650°C (+212°F to +1202°F)• +300°C to +2000°C (+572°F to +3632°F)
Accuracy	<ul style="list-style-type: none">• ±1°C (±1.8°F) or ±1% of reading for limited temperature range.• ±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes or circles) with max./min./average (in post-acquisition analysis)
Profile	1 line profile with max/min temp
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area and profile
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets (in live images)	The user can select and combine measurements from any number of available spots/boxes/circles/profiles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava



FLIR T660 45° (incl. Wi-Fi and Ext. cal.)

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Website

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Customer support

<http://support.flir.com>

Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none"> • Simultaneous storage of thermal and digital photo in same JPEG file. • Optional to store digital photo as a separate JPEG file.
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image

Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none"> • Instant Report (*.pdf file) in camera • Separate PC software with extensive report generation

Geographic Information System	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image

Video recording in camera	
Radiometric IR video recording	CSQ to memory card
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card



FLIR T660 45° (incl. Wi-Fi and Ext. cal.)

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Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB
Visual video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB

Digital camera	
Built-in digital camera	5 Mpxels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards

USB	
USB	<ul style="list-style-type: none">USB-A: Connect external USB deviceUSB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB 2.0 high speed

Video output	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible

Radio	
Wi-Fi	<ul style="list-style-type: none">Standard: 802.11 b/gFrequency range: 2412–2462 MHzMax. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger



FLIR T660 45° (incl. Wi-Fi and Ext. cal.)

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Power system	
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery (2 ea.)• Battery charger• Bluetooth headset• Calibration certificate• Extended calibration certificate• HDMI-DVI cable• HDMI-HDMI cable• Hard transport case• Large eyecap• Lens cap• Memory card• Neck strap• Power supply, incl. multi-plugs• Printed documentation• Tripod adapter• USB cable, Std A to Mini-B
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558012116
UPC-12	845188013219
Country of origin	Sweden

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Website

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Supplies & accessories:

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50 µm) with case
- T198060; Close-up IR lens, 5.8× (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5× (25 µm) with case
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- T910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case
- T198495; Pouch
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198496; Stylus pen
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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Website

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General description	
The FLIR T660 is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 640 × 480 pixel infrared resolution. The FLIR T660 is flexible and can meet your every need.	
Benefits:	
<ul style="list-style-type: none"> • Highest performance with the latest technology: The FLIR T660 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. Continuous auto-focus makes the FLIR T660 the first fully automatic infrared camera on the market. • Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual images, by sketching or adding predefined stamps directly onto the camera's capacitive touch screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you to tilt between landscape and portrait views. • Extensive communication options: The Wi-Fi connectivity of the FLIR T660 allows you to connect to smart phones or tablets for the wireless transfer of images or the remote control of the camera. The Bluetooth-based METERLiNK function transfers readings from external measurement instruments to the infrared image. • Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools. 	

Imaging and optical data	
IR resolution	640 × 480 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<20 mK @ +30°C (+86°F)
Field of view (FOV)	45° × 34°
Minimum focus distance	0.15 m (0.49 ft.)
Focal length	13 mm (0.52 in.)
Spatial resolution (IFOV)	1.30 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Continuous, one shot or manual
Digital zoom	1–8× continuous
Digital image enhancement	Adaptive digital noise reduction

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm

Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels



FLIR T660 45° (incl. Wi-Fi)

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Image presentation	
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Viewfinder	Built-in 800 × 480 pixels
Automatic image adjustment	Continuous, histogram based
Manual image adjustment	Linear based; possible to adjust level/span/max./min.

Image presentation modes	
Infrared image	Full-color IR image
Visual image	Full color visual image
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image

Measurement	
Object temperature range	<ul style="list-style-type: none">• -40°C to +150°C (-40°F to +302°F)• +100°C to +650°C (+212°F to +1202°F)• +300°C to +2000°C (+572°F to +3632°F)
Accuracy	<ul style="list-style-type: none">• ±1°C (±1.8°F) or ±1% of reading for limited temperature range.• ±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes or circles) with max./min./average (in post-acquisition analysis)
Profile	1 line profile with max/min temp
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area and profile
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets (in live images)	The user can select and combine measurements from any number of available spots/boxes/circles/profiles/delta
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital photo and measurement data, on memory card
Storage media	Removable memory SD card
Image storage mode	<ul style="list-style-type: none">• Simultaneous storage of thermal and digital photo in same JPEG file.• Optional to store digital photo as a separate JPEG file.
Time lapse	15 seconds to 24 hours
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image

Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates or create your own in FLIR Tools
Image description	Add short note (stored in JPEG EXIF tag)
Sketch	Draw on thermal/digital photo or add predefined stamps
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK
Report generation	<ul style="list-style-type: none">• Instant Report (*.pdf file) in camera• Separate PC software with extensive report generation

Geographic Information System	
GPS	Location data automatically added to every still image from built-in GPS
Compass	Camera direction automatically added to every still image

Video recording in camera	
Radiometric IR video recording	CSQ to memory card
Non-radiometric IR video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card



FLIR T660 45° (incl. Wi-Fi)

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Video streaming	
Radiometric IR video streaming	Full dynamic to PC using USB or to mobile devices using Wi-Fi.
Non-radiometric IR video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB
Visual video streaming	<ul style="list-style-type: none">MPEG-4 using Wi-FiUncompressed colorized video using USB

Digital camera	
Built-in digital camera	5 Mpxels with LED light (photo as separate image)
Digital camera, FOV	Adapts to the IR lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards

USB	
USB	<ul style="list-style-type: none">USB-A: Connect external USB deviceUSB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB 2.0 high speed

Video output	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible

Radio	
Wi-Fi	<ul style="list-style-type: none">Standard: 802.11 b/gFrequency range: 2412–2462 MHzMax. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger



FLIR T660 45° (incl. Wi-Fi)

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Power system	
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Weight	1.3 kg (2.87 lb.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery (2 ea.)• Battery charger• Bluetooth headset• Calibration certificate• Printed documentation• HDMI-DVI cable• HDMI-HDMI cable• Hard transport case• Large eyecap• Lens cap• Memory card• Neck strap• Power supply, incl. multi-plugs• Tripod adapter• USB cable, Std A to Mini-B
Packaging, weight	6.6 kg (14.6 lb.)
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)
EAN-13	7332558008768
UPC-12	845188009281
Country of origin	Sweden

Supplies & accessories:

P/N: 55904-8622

Revision

43545

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2017-06-28 14:11 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50 µm) with case
- T198060; Close-up IR lens, 5.8× (100 µm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5× (25 µm) with case
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case
- T198495; Pouch
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198496; Stylus pen
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

FLIR T10xx series

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P/N: 72502-0501

Revision

47256

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2018-01-17 15:22 UTC+1

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Website

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Customer support

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General description	
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The FLIR T1010 is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and feature-rich flexibility with superior image quality at an infrared resolution of 1024 × 768 pixels.

Benefits:

- Flexible and feature rich: A wide variety of measuring and analysis functions make the FLIR T1010 flexible for your every need. Two programmable buttons provide easy access to favorite functions.
- Highest performance with the latest technology: The FLIR T1010 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. With its continuous autofocus, the FLIR T1010 is a fully automatic infrared camera.
- Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools.

Imaging and optical data	
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IR resolution	1024 × 768 pixels
MSX resolution	1024 × 768 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<25 mK @ +30°C (+86°F)
Field of view (FOV)	12° × 9°
Minimum IR focus distance	1.3 m (4.26 ft.)
Minimum IR-visual alignment distance	1.3 m (4.26 ft.)
Focal length	83.4 mm (3.28 in.)
Spatial resolution (IFOV)	0.20 mrad
Lens identification	Automatic
F-number	1.2
Image frequency	30 Hz
Focus	One shot or manual
Digital zoom	1–8× continuous
Digital image enhancement	Adaptive digital noise reduction

Detector data	
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Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm

Image presentation	
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Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
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FLIR T1010 12°

P/N: 72502-0501

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Website

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Customer support

<http://support.flir.com>

Image presentation	
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Automatic image adjustment, type	Standard or histogram based on the image content
Manual image adjustment	Linear based, possible to adjust level/span/max./min.

Image presentation modes	
Image modes	Thermal, thermal MSX, digital camera
Infrared image	Full color infrared image
Visual image	Full color visual image
Multi Spectral Dynamic Imaging (MSX)	Thermal image with enhanced detail presentation
Gallery	<ul style="list-style-type: none"> Review thumbnail/full image on the camera Edit measurements/palettes/image modes on the camera

Measurement		
Object temperature range		Accuracy
-40 to +150°C (-40 to +302°F)	-40 to +5°C (-40 to +41°F)	±2°C (±3.6°F)
	+5 to +100°C (+41 to +212°F)	±2°C (±3.6°F)
	+100 to +150°C (+212 to +302°F)	±2%
0 to +650°C (+32 to +1202°F)	0 to +100°C (+32 to +212°F)	±2°C (±3.6°F)
	+100 to +650°C (+212 to +1202°F)	±2%

Measurement analysis	
Spotmeter	1
Area	1 box with max./min./average
Profile	No
Automatic hot/cold detection	Auto hot or cold spotmeter markers within the area
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets	The user can select and combine measurements from one box, one delta.
Difference temperature	Delta temperature between the measurement functions and the reference temperature
Reference temperature	Yes
Atmospheric transmission correction	Automatic, based on the inputs for distance, atmospheric temperature, and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from the materials list
Reflected apparent temperature correction	Automatic, based on the input of the reflected temperature
External optics/windows correction	Automatic, based on the inputs of the window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external infrared window compensation



FLIR T1010 12°

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Measurement analysis	
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava
Set-up	
Set-up commands	Save options, Programmable button, Reset options, Set up camera, Language, Time & units, Camera information
Languages	Arabic, Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, simplified Chinese, Swedish, traditional Chinese, Turkish
Service functions	
Camera software update	Use PC software FLIR Tools
Storage of images	
Image storage	Standard JPEG, including digital image and measurement data, on a memory card
Storage media	Removable media SD or SDHC card. Class 10 or better recommended
Image storage mode	<ul style="list-style-type: none">• Simultaneous storage of thermal and digital images in the same JPEG file• Option to store a digital photo as a separate JPEG file
File formats	<ul style="list-style-type: none">• Standard JPEG, measurement data included• No CSQ, measurement data included• No CSQ storage on camera
File formats, visual	Standard JPEG, automatically associated with the corresponding thermal image
Video recording in camera	
Non-radiometric IR-video recording	H.264 to the memory card
Visual video recording	H.264 to the memory card
Video streaming	
Radiometric IR-video streaming	Real-time radiometric streaming (RTRS) via USB
Non-radiometric IR-video streaming	H.264 video using USB
Visual video streaming	H.264 video using USB
Digital camera	
Built-in digital camera	5 Mpixel with LED light
Digital camera	Field of view adapts to the infrared lens
Video lamp	Built-in LED light
Laser pointer	
Laser	Activated by a dedicated button
Laser alignment	Position is automatically displayed on the infrared image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)



FLIR T1010 12°

P/N: 72502-0501

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Data communication interfaces	
Interfaces	USB Micro-B, HDMI
SD Card	One card slot for removable SD memory cards

USB	
USB	USB Micro-B: data transfer to and from a PC, uncompressed colorized video
USB, standard	<ul style="list-style-type: none">• USB 2.0 High Speed• USB Micro-B connector

Radio	
Antenna	Internal (disabled)

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	>2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or two-bay charger
Charging time	2.5 hours to 90% capacity, charging status indicated by LEDs
Charging temperature	0°C to +45°C (+32°F to +113°F), except for the Korean market: +10°C to +45°C (+50°F to +113°F)
External power operation	AC adapter 90–260 V AC, 50/60 Hz or 12 V from a vehicle (cable with a standard plug, optional)
Power management	Automatic power-off functionality, user configurable between 5 minutes, 20 minutes, and no automatic shutdown

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40 to +70°C (–40 to +158°F)
Humidity (operating and storage)	IEC 60068-2-30 / 24 hours, 95% relative humidity, 25–40°C (77–104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-29)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1
Ergonomics	The viewfinder plus the 120° rotating optical block allow you to point the camera in multiple directions while maintaining a comfortable position

Physical data	
Weight	1.9 kg (4.3 lb.)
Camera size, excl. lens (L × W × H)	167.2 mm × 204.5 mm × 180.4 mm (6.6 in. × 8.0 in. × 7.1 in.)



FLIR T1010 12°

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Physical data	
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Warranty information	
Warranty	See http://www.flir.com/warranty/ .

Shipping information	
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery (2 ea.)• Battery charger• Calibration certificate• FLIR Tools+ license card• Hard transport case• HDMI-HDMI cable• Lens cap• Memory card• Neck strap• Power supply, including multi-plugs• Printed documentation• USB cable, Std A to Micro-B
EAN-13	7332558014417
UPC-12	845188016470
Country of origin	Sweden

Supplies & accessories:

- T199064; IR lens f=36mm (28°) with case
- T199066; IR lens f=21.2mm (45°) with case
- T199077; IR lens f=83.4mm (12°) with case
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T911093; Tool belt
- T198533; USB cable Std A <-> Micro B
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10003; FLIR Tools Mobile (iPad/iPhone Application)
- APP-10004; FLIR Tools (MacOS Application)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

P/N: 72502-0502

Revision

46606

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Website

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Customer support

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General description	
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The FLIR T1010 is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and feature-rich flexibility with superior image quality at an infrared resolution of 1024 × 768 pixels.

Benefits:

- Flexible and feature rich: A wide variety of measuring and analysis functions make the FLIR T1010 flexible for your every need. Two programmable buttons provide easy access to favorite functions.
- Highest performance with the latest technology: The FLIR T1010 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. With its continuous autofocus, the FLIR T1010 is a fully automatic infrared camera.
- Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools.

Imaging and optical data	
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IR resolution	1024 × 768 pixels
MSX resolution	1024 × 768 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<25 mK @ +30°C (+86°F)
Field of view (FOV)	28° × 21°
Minimum IR focus distance	0.4 m (1.32 ft.)
Minimum IR–visual alignment distance	0.4 m (1.32 ft.)
Focal length	36 mm (1.42 in.)
Spatial resolution (IFOV)	0.47 mrad
Lens identification	Automatic
F-number	1.15
Image frequency	30 Hz
Focus	One shot or manual
Digital zoom	1–8× continuous
Digital image enhancement	Adaptive digital noise reduction

Detector data	
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Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm

Image presentation	
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Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
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FLIR T1010 28°

P/N: 72502-0502

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Image presentation	
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Automatic image adjustment, type	Standard or histogram based on the image content
Manual image adjustment	Linear based, possible to adjust level/span/max./min.

Image presentation modes	
Image modes	Thermal, thermal MSX, digital camera
Infrared image	Full color infrared image
Visual image	Full color visual image
Multi Spectral Dynamic Imaging (MSX)	Thermal image with enhanced detail presentation
Gallery	<ul style="list-style-type: none"> Review thumbnail/full image on the camera Edit measurements/palettes/image modes on the camera

Measurement		
Object temperature range		Accuracy
-40 to +150°C (-40 to +302°F)	-40 to +5°C (-40 to +41°F)	±2°C (±3.6°F)
	+5 to +100°C (+41 to +212°F)	±2°C (±3.6°F)
	+100 to +150°C (+212 to +302°F)	±2%
0 to +650°C (+32 to +1202°F)	0 to +100°C (+32 to +212°F)	±2°C (±3.6°F)
	+100 to +650°C (+212 to +1202°F)	±2%

Measurement analysis	
Spotmeter	1
Area	1 box with max./min./average
Profile	No
Automatic hot/cold detection	Auto hot or cold spotmeter markers within the area
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets	The user can select and combine measurements from one box, one delta.
Difference temperature	Delta temperature between the measurement functions and the reference temperature
Reference temperature	Yes
Atmospheric transmission correction	Automatic, based on the inputs for distance, atmospheric temperature, and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from the materials list
Reflected apparent temperature correction	Automatic, based on the input of the reflected temperature
External optics/windows correction	Automatic, based on the inputs of the window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external infrared window compensation



FLIR T1010 28°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Measurement analysis	
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava

Set-up	
Set-up commands	Save options, Programmable button, Reset options, Set up camera, Language, Time & units, Camera information
Languages	Arabic, Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, simplified Chinese, Swedish, traditional Chinese, Turkish

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital image and measurement data, on a memory card
Storage media	Removable media SD or SDHC card. Class 10 or better recommended
Image storage mode	<ul style="list-style-type: none">• Simultaneous storage of thermal and digital images in the same JPEG file• Option to store a digital photo as a separate JPEG file
File formats	<ul style="list-style-type: none">• Standard JPEG, measurement data included• No CSQ, measurement data included• No CSQ storage on camera
File formats, visual	Standard JPEG, automatically associated with the corresponding thermal image

Video recording in camera	
Non-radiometric IR-video recording	H.264 to the memory card
Visual video recording	H.264 to the memory card

Video streaming	
Radiometric IR-video streaming	Real-time radiometric streaming (RTRS) via USB
Non-radiometric IR-video streaming	H.264 video using USB
Visual video streaming	H.264 video using USB

Digital camera	
Built-in digital camera	5 Mpixel with LED light
Digital camera	Field of view adapts to the infrared lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by a dedicated button
Laser alignment	Position is automatically displayed on the infrared image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)



FLIR T1010 28°

P/N: 72502-0502

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Website

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Customer support

<http://support.flir.com>

Data communication interfaces	
Interfaces	USB Micro-B, HDMI
SD Card	One card slot for removable SD memory cards

USB	
USB	USB Micro-B: data transfer to and from a PC, uncompressed colorized video
USB, standard	<ul style="list-style-type: none">• USB 2.0 High Speed• USB Micro-B connector

Radio	
Antenna	Internal (disabled)

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	>2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or two-bay charger
Charging time	2.5 hours to 90% capacity, charging status indicated by LEDs
Charging temperature	0°C to +45°C (+32°F to +113°F), except for the Korean market: +10°C to +45°C (+50°F to +113°F)
External power operation	AC adapter 90–260 V AC, 50/60 Hz or 12 V from a vehicle (cable with a standard plug, optional)
Power management	Automatic power-off functionality, user configurable between 5 minutes, 20 minutes, and no automatic shutdown

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40 to +70°C (–40 to +158°F)
Humidity (operating and storage)	IEC 60068-2-30 / 24 hours, 95% relative humidity, 25–40°C (77–104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-29)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1
Ergonomics	The viewfinder plus the 120° rotating optical block allow you to point the camera in multiple directions while maintaining a comfortable position

Physical data	
Weight	1.9 kg (4.3 lb.)
Camera size, excl. lens (L × W × H)	167.2 mm × 204.5 mm × 180.4 mm (6.6 in. × 8.0 in. × 7.1 in.)



FLIR T1010 28°

P/N: 72502-0502

Revision

46606

Last modified

2017-11-27 15:48 UTC+1

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Physical data	
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Warranty information	
Warranty	See http://www.flir.com/warranty/ .

Shipping information	
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery (2 ea.)• Battery charger• Calibration certificate• FLIR Tools+ license card• Hard transport case• HDMI-HDMI cable• Lens cap• Memory card• Neck strap• Power supply, including multi-plugs• Printed documentation• USB cable, Std A to Micro-B
EAN-13	7332558014400
UPC-12	845188016456
Country of origin	Sweden

Supplies & accessories:

- T199064; IR lens f=36mm (28°) with case
- T199065; Close-up lens 3x (51 micron) with case
- T199066; IR lens f=21.2mm (45°) with case
- T199077; IR lens f=83.4mm (12°) with case
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T911093; Tool belt
- T198533; USB cable Std A <-> Micro B
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10003; FLIR Tools Mobile (iPad/iPhone Application)
- APP-10004; FLIR Tools (MacOS Application)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

P/N: 72502-0503

Revision

47257

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2018-01-17 15:25 UTC+1

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General description	
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The FLIR T1010 is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and feature-rich flexibility with superior image quality at an infrared resolution of 1024 × 768 pixels.

Benefits:

- Flexible and feature rich: A wide variety of measuring and analysis functions make the FLIR T1010 flexible for your every need. Two programmable buttons provide easy access to favorite functions.
- Highest performance with the latest technology: The FLIR T1010 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. With its continuous autofocus, the FLIR T1010 is a fully automatic infrared camera.
- Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools.

Imaging and optical data	
--------------------------	--

IR resolution	1024 × 768 pixels
MSX resolution	1024 × 768 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<25 mK @ +30°C (+86°F)
Field of view (FOV)	45° × 34°
Minimum IR focus distance	0.2 m (0.66 ft.)
Minimum IR–visual alignment distance	0.5 m (1.64 ft.)
Focal length	21.2 mm (0.83 in.)
Spatial resolution (IFOV)	0.80 mrad
Lens identification	Automatic
F-number	1.1
Image frequency	30 Hz
Focus	One shot or manual
Digital zoom	1–8× continuous
Digital image enhancement	Adaptive digital noise reduction

Detector data	
---------------	--

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm

Image presentation	
--------------------	--

Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
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FLIR T1010 45°

P/N: 72502-0503

Revision

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Website

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Customer support

<http://support.flir.com>

Image presentation	
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Automatic image adjustment, type	Standard or histogram based on the image content
Manual image adjustment	Linear based, possible to adjust level/span/max./min.

Image presentation modes	
Image modes	Thermal, thermal MSX, digital camera
Infrared image	Full color infrared image
Visual image	Full color visual image
Multi Spectral Dynamic Imaging (MSX)	Thermal image with enhanced detail presentation
Gallery	<ul style="list-style-type: none"> Review thumbnail/full image on the camera Edit measurements/palettes/image modes on the camera

Measurement		
Object temperature range		Accuracy
-40 to +150°C (-40 to +302°F)	-40 to +5°C (-40 to +41°F)	±2°C (±3.6°F)
	+5 to +100°C (+41 to +212°F)	±2°C (±3.6°F)
	+100 to +150°C (+212 to +302°F)	±2%
0 to +650°C (+32 to +1202°F)	0 to +100°C (+32 to +212°F)	±2°C (±3.6°F)
	+100 to +650°C (+212 to +1202°F)	±2%

Measurement analysis	
Spotmeter	1
Area	1 box with max./min./average
Profile	No
Automatic hot/cold detection	Auto hot or cold spotmeter markers within the area
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets	The user can select and combine measurements from one box, one delta.
Difference temperature	Delta temperature between the measurement functions and the reference temperature
Reference temperature	Yes
Atmospheric transmission correction	Automatic, based on the inputs for distance, atmospheric temperature, and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from the materials list
Reflected apparent temperature correction	Automatic, based on the input of the reflected temperature
External optics/windows correction	Automatic, based on the inputs of the window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external infrared window compensation



FLIR T1010 45°

P/N: 72502-0503

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Website

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Customer support

<http://support.flir.com>

Measurement analysis	
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava

Set-up	
Set-up commands	Save options, Programmable button, Reset options, Set up camera, Language, Time & units, Camera information
Languages	Arabic, Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, simplified Chinese, Swedish, traditional Chinese, Turkish

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital image and measurement data, on a memory card
Storage media	Removable media SD or SDHC card. Class 10 or better recommended
Image storage mode	<ul style="list-style-type: none">• Simultaneous storage of thermal and digital images in the same JPEG file• Option to store a digital photo as a separate JPEG file
File formats	<ul style="list-style-type: none">• Standard JPEG, measurement data included• No CSQ, measurement data included• No CSQ storage on camera
File formats, visual	Standard JPEG, automatically associated with the corresponding thermal image

Video recording in camera	
Non-radiometric IR-video recording	H.264 to the memory card
Visual video recording	H.264 to the memory card

Video streaming	
Radiometric IR-video streaming	Real-time radiometric streaming (RTRS) via USB
Non-radiometric IR-video streaming	H.264 video using USB
Visual video streaming	H.264 video using USB

Digital camera	
Built-in digital camera	5 Mpixel with LED light
Digital camera	Field of view adapts to the infrared lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by a dedicated button
Laser alignment	Position is automatically displayed on the infrared image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)



FLIR T1010 45°

P/N: 72502-0503

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Website

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<http://support.flir.com>

Data communication interfaces	
Interfaces	USB Micro-B, HDMI
SD Card	One card slot for removable SD memory cards

USB	
USB	USB Micro-B: data transfer to and from a PC, uncompressed colorized video
USB, standard	<ul style="list-style-type: none">• USB 2.0 High Speed• USB Micro-B connector

Radio	
Antenna	Internal (disabled)

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	>2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or two-bay charger
Charging time	2.5 hours to 90% capacity, charging status indicated by LEDs
Charging temperature	0°C to +45°C (+32°F to +113°F), except for the Korean market: +10°C to +45°C (+50°F to +113°F)
External power operation	AC adapter 90–260 V AC, 50/60 Hz or 12 V from a vehicle (cable with a standard plug, optional)
Power management	Automatic power-off functionality, user configurable between 5 minutes, 20 minutes, and no automatic shutdown

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40 to +70°C (–40 to +158°F)
Humidity (operating and storage)	IEC 60068-2-30 / 24 hours, 95% relative humidity, 25–40°C (77–104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-29)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1
Ergonomics	The viewfinder plus the 120° rotating optical block allow you to point the camera in multiple directions while maintaining a comfortable position

Physical data	
Weight	1.9 kg (4.3 lb.)
Camera size, excl. lens (L × W × H)	167.2 mm × 204.5 mm × 180.4 mm (6.6 in. × 8.0 in. × 7.1 in.)



FLIR T1010 45°

P/N: 72502-0503

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Website

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Physical data	
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Warranty information	
Warranty	See http://www.flir.com/warranty/ .

Shipping information	
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery (2 ea.)• Battery charger• Calibration certificate• FLIR Tools+ license card• Hard transport case• HDMI-HDMI cable• Lens cap• Memory card• Neck strap• Power supply, including multi-plugs• Printed documentation• USB cable, Std A to Micro-B
EAN-13	7332558014424
UPC-12	845188016487
Country of origin	Sweden

Supplies & accessories:

- T199064; IR lens f=36mm (28°) with case
- T199066; IR lens f=21.2mm (45°) with case
- T199077; IR lens f=83.4mm (12°) with case
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T911093; Tool belt
- T198533; USB cable Std A <-> Micro B
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10003; FLIR Tools Mobile (iPad/iPhone Application)
- APP-10004; FLIR Tools (MacOS Application)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

P/N: 72501-0101

Revision

46139

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Website

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General description	
The FLIR T1020 is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and feature-rich flexibility with superior image quality at an infrared resolution of 1024 × 768 pixels.	
Benefits:	
<ul style="list-style-type: none"> • Flexible and feature rich: A wide variety of measuring and analysis functions make the FLIR T1020 flexible for your every need. Two programmable buttons provide easy access to favorite functions. • Highest performance with the latest technology: The FLIR T1020 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. With its continuous autofocus, the FLIR T1020 is a fully automatic infrared camera. • Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools. 	
Imaging and optical data	
IR resolution	1024 × 768 pixels
MSX resolution	1024 × 768 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<20 mK @ +30°C (+86°F)
Field of view (FOV)	12° × 9°
Minimum IR focus distance	1.3 m (4.26 ft.)
Minimum IR-visual alignment distance	1.3 m (4.26 ft.)
Focal length	83.4 mm (3.28 in.)
Spatial resolution (IFOV)	0.20 mrad
Lens identification	Automatic
F-number	1.2
Image frequency	30 Hz
Focus	One shot or manual
Digital zoom	1–8× continuous
Digital image enhancement	Adaptive digital noise reduction
Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm
Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen



FLIR T1020 12°

P/N: 72501-0101

Revision

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Image presentation	
Auto orientation	Automatic landscape or portrait
Viewfinder	Built-in 800 × 480 pixels
Automatic image adjustment	Continuous, histogram based
Automatic image adjustment, type	Standard or histogram based on the image content
Manual image adjustment	Linear based, possible to adjust level/span/max./min.

Image presentation modes	
Image modes	Thermal, thermal MSX, picture in picture, digital camera
Infrared image	Full color infrared image
Visual image	Full color visual image
Multi Spectral Dynamic Imaging (MSX)	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable infrared area on the visual image
Gallery	<ul style="list-style-type: none"> Review thumbnail/full image on the camera Edit measurements/palettes/image modes on the camera

Measurement		
Object temperature range		Accuracy
-40 to +150°C (-40 to +302°F)	-40 to +5°C (-40 to +41°F)	±2°C (±3.6°F)
	+5 to +100°C (+41 to +212°F)	±1°C (±1.8°F)
	+100 to +150°C (+212 to +302°F)	±1%
0 to +650°C (+32 to +1202°F)	0 to +100°C (+32 to +212°F)	±2°C (±3.6°F)
	+100 to +650°C (+212 to +1202°F)	±2%
+300 to +2000°C (+572 to +3632°F)	+300 to +2000°C (+572 to +3632°F)	±2%

NOTE: For HSI use, above 30 Hz frame rate, the typical accuracy will be ±2.5°C (±4.5°F), or 2.5% of reading @ 25°C (77°F).

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes and circles) with max./min./average
Profile	1 line profile with max./min. temperature
Automatic hot/cold detection	Auto hot or cold spotmeter markers within the area and profile
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets	The user can select and combine measurements from any number of spots/boxes/circles/profiles/delta
Difference temperature	Delta temperature between the measurement functions and the reference temperature
Reference temperature	Manually set using the difference temperature
Atmospheric transmission correction	Automatic, based on the inputs for distance, atmospheric temperature, and relative humidity



FLIR T1020 12°

P/N: 72501-0101

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Website

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Customer support

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Measurement analysis	
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from the materials list
Reflected apparent temperature correction	Automatic, based on the input of the reflected temperature
External optics/windows correction	Automatic, based on the inputs of the window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external infrared window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava

Alarm	
Color alarm (isotherm)	<ul style="list-style-type: none">• Above• Below• Interval• Condensation (moisture/humidity/dewpoint)• Insulation
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information
Languages	Arabic, Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, simplified Chinese, Swedish, traditional Chinese, Turkish

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital image and measurement data, on a memory card
Storage media	Removable media SD or SDHC card. Class 10 or better recommended
Image storage mode	<ul style="list-style-type: none">• Simultaneous storage of thermal and digital images in the same JPEG file• Option to store a digital photo as a separate JPEG file
Time lapse	15 seconds to 24 hours
File formats	<ul style="list-style-type: none">• Standard JPEG, measurement data included• CSQ, measurement data included
File formats, visual	Standard JPEG, automatically associated with the corresponding thermal image

Image annotations	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table, select between predefined templates
Image description	Add short note (stored in the JPEG exif tag)



FLIR T1020 12°

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Website

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Image annotations	
Sketch	<ul style="list-style-type: none"> Draw on the thermal/digital image or add predefined stamps Separate PC software with extensive report generation
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK

Geographic Information System	
GPS	Location data automatically added to every image from the built-in GPS
Compass	Camera direction automatically added to every image

Video recording in camera	
Radiometric IR-video recording	Real-time radiometric recording (RTRR) to the memory card
Non-radiometric IR-video recording	H.264 to the memory card
Visual video recording	H.264 to the memory card

Video streaming	
Radiometric IR-video streaming	Real-time radiometric streaming (RTRS) via USB
Non-radiometric IR-video streaming	<ul style="list-style-type: none"> H.264 video using Wi-Fi H.264 video using USB
Visual video streaming	<ul style="list-style-type: none"> H.264 video using Wi-Fi H.264 video using USB

Digital camera	
Built-in digital camera	5 Mpixel with LED light
Digital camera	Field of view adapts to the infrared lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by a dedicated button
Laser alignment	Position is automatically displayed on the infrared image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB Micro-B, Bluetooth, Wi-Fi, HDMI
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Infrastructure (network) or AP
SD Card	One card slot for removable SD memory cards
Audio	Microphone headset via Bluetooth for the voice annotation of images

USB	
USB	USB Micro-B: data transfer to and from a PC, uncompressed colorized video



FLIR T1020 12°

P/N: 72501-0101

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Website

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Customer support

<http://support.flir.com>

USB	
USB, standard	<ul style="list-style-type: none">• USB 2.0 High Speed• USB Micro-B connector

Video	
Video out	<ul style="list-style-type: none">• HDMI 640 × 480• HDMI 1280 × 720• DVI 640 × 480• DVI 800 × 600
Video, connector type	HDMI type C

Radio	
Wi-Fi	<ul style="list-style-type: none">• Standard: 802.11 b/g/n• Frequency range: 2412–2462 MHz• Max. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz, supports 2.1 and 4.0
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	>2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or two-bay charger
Charging time	2.5 hours to 90% capacity, charging status indicated by LEDs
Charging temperature	0°C to +45°C (+32°F to +113°F), except for the Korean market: +10°C to +45°C (+50°F to +113°F)
External power operation	AC adapter 90–260 V AC, 50/60 Hz or 12 V from a vehicle (cable with a standard plug, optional)
Power management	Automatic power-off functionality, user configurable between 5 minutes, 20 minutes, and no automatic shutdown

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40 to +70°C (–40 to +158°F)
Humidity (operating and storage)	IEC 60068-2-30 / 24 hours, 95% relative humidity, 25–40°C (77–104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-29)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1
Ergonomics	The viewfinder plus the 120° rotating optical block allow you to point the camera in multiple directions while maintaining a comfortable position

P/N: 72501-0101

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Physical data	
Weight	2.1 kg (4.6 lb.)
Camera size, excl. lens (L x W x H)	167.2 mm x 204.5 mm x 188.3 mm (6.6 in. x 8.0 in. x 7.4 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Warranty information	
Warranty	<ul style="list-style-type: none"> • 2 years parts and labor coverage on the camera • 5 years coverage on the battery • 10 years coverage on the detector – the most vital part of the whole camera

Shipping information	
List of contents	<ul style="list-style-type: none"> • Infrared camera with lens • Battery (2 ea.) • Battery charger • Bluetooth headset • Calibration certificate • FLIR Tools+ license card • Hard transport case • HDMI-HDMI cable • Lens cap • Memory card • Neck strap • Power supply, including multi-plugs • Printed documentation • USB cable, Std A to Micro-B
EAN-13	7332558010273
UPC-12	845188010911
Country of origin	Sweden

Supplies & accessories:

- T199064; IR lens f=36mm (28°) with case
- T199066; IR lens f=21.2mm (45°) with case
- T199077; IR lens f=83.4mm (12°) with case
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198497; Large eyecup
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- T198533; USB cable Std A <-> Micro B
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10003; FLIR Tools Mobile (iPad/iPhone Application)
- APP-10004; FLIR Tools (MacOS Application)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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General description	
The FLIR T1020 is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and feature-rich flexibility with superior image quality at an infrared resolution of 1024 × 768 pixels.	
Benefits:	
<ul style="list-style-type: none"> • Flexible and feature rich: A wide variety of measuring and analysis functions make the FLIR T1020 flexible for your every need. Two programmable buttons provide easy access to favorite functions. • Highest performance with the latest technology: The FLIR T1020 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. With its continuous autofocus, the FLIR T1020 is a fully automatic infrared camera. • Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools. 	
Imaging and optical data	
IR resolution	1024 × 768 pixels
MSX resolution	1024 × 768 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<20 mK @ +30°C (+86°F)
Field of view (FOV)	28° × 21°
Minimum IR focus distance	0.4 m (1.32 ft.)
Minimum IR-visual alignment distance	0.4 m (1.32 ft.)
Focal length	36 mm (1.42 in.)
Spatial resolution (IFOV)	0.47 mrad
Lens identification	Automatic
F-number	1.15
Image frequency	30 Hz
Focus	One shot or manual
Digital zoom	1–8× continuous
Digital image enhancement	Adaptive digital noise reduction
Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm
Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen



FLIR T1020 28°

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Image presentation	
Auto orientation	Automatic landscape or portrait
Viewfinder	Built-in 800 × 480 pixels
Automatic image adjustment	Continuous, histogram based
Automatic image adjustment, type	Standard or histogram based on the image content
Manual image adjustment	Linear based, possible to adjust level/span/max./min.

Image presentation modes	
Image modes	Thermal, thermal MSX, picture in picture, digital camera
Infrared image	Full color infrared image
Visual image	Full color visual image
Multi Spectral Dynamic Imaging (MSX)	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable infrared area on the visual image
Gallery	<ul style="list-style-type: none"> Review thumbnail/full image on the camera Edit measurements/palettes/image modes on the camera

Measurement		
Object temperature range		Accuracy
-40 to +150°C (-40 to +302°F)	-40 to +5°C (-40 to +41°F)	±2°C (±3.6°F)
	+5 to +100°C (+41 to +212°F)	±1°C (±1.8°F)
	+100 to +150°C (+212 to +302°F)	±1%
0 to +650°C (+32 to +1202°F)	0 to +100°C (+32 to +212°F)	±2°C (±3.6°F)
	+100 to + 650°C (+212 to +1202°F)	±2%
+300 to +2000°C (+572 to +3632°F)	+300 to +2000°C (+572 to +3632°F)	±2%

NOTE: For HSI use, above 30 Hz frame rate, the typical accuracy will be ±2.5°C (±4.5°F), or 2.5% of reading @ 25°C (77°F).

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes and circles) with max./min./average
Profile	1 line profile with max./min. temperature
Automatic hot/cold detection	Auto hot or cold spotmeter markers within the area and profile
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets	The user can select and combine measurements from any number of spots/boxes/circles/profiles/delta
Difference temperature	Delta temperature between the measurement functions and the reference temperature
Reference temperature	Manually set using the difference temperature
Atmospheric transmission correction	Automatic, based on the inputs for distance, atmospheric temperature, and relative humidity

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Measurement analysis	
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from the materials list
Reflected apparent temperature correction	Automatic, based on the input of the reflected temperature
External optics/windows correction	Automatic, based on the inputs of the window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external infrared window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava

Alarm	
Color alarm (isotherm)	<ul style="list-style-type: none"> Above Below Interval Condensation (moisture/humidity/dewpoint) Insulation
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information
Languages	Arabic, Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, simplified Chinese, Swedish, traditional Chinese, Turkish

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital image and measurement data, on a memory card
Storage media	Removable media SD or SDHC card. Class 10 or better recommended
Image storage mode	<ul style="list-style-type: none"> Simultaneous storage of thermal and digital images in the same JPEG file Option to store a digital photo as a separate JPEG file
Time lapse	15 seconds to 24 hours
File formats	<ul style="list-style-type: none"> Standard JPEG, measurement data included CSQ, measurement data included
File formats, visual	Standard JPEG, automatically associated with the corresponding thermal image

Image annotations	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table, select between predefined templates
Image description	Add short note (stored in the JPEG exif tag)

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Image annotations	
Sketch	<ul style="list-style-type: none"> Draw on the thermal/digital image or add predefined stamps Separate PC software with extensive report generation
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK

Geographic Information System	
GPS	Location data automatically added to every image from the built-in GPS
Compass	Camera direction automatically added to every image

Video recording in camera	
Radiometric IR-video recording	Real-time radiometric recording (RTRR) to the memory card
Non-radiometric IR-video recording	H.264 to the memory card
Visual video recording	H.264 to the memory card

Video streaming	
Radiometric IR-video streaming	Real-time radiometric streaming (RTRS) via USB
Non-radiometric IR-video streaming	<ul style="list-style-type: none"> H.264 video using Wi-Fi H.264 video using USB
Visual video streaming	<ul style="list-style-type: none"> H.264 video using Wi-Fi H.264 video using USB

Digital camera	
Built-in digital camera	5 Mpixel with LED light
Digital camera	Field of view adapts to the infrared lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by a dedicated button
Laser alignment	Position is automatically displayed on the infrared image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB Micro-B, Bluetooth, Wi-Fi, HDMI
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Infrastructure (network) or AP
SD Card	One card slot for removable SD memory cards
Audio	Microphone headset via Bluetooth for the voice annotation of images

USB	
USB	USB Micro-B: data transfer to and from a PC, uncompressed colorized video



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USB	
USB, standard	<ul style="list-style-type: none">• USB 2.0 High Speed• USB Micro-B connector

Video	
Video out	<ul style="list-style-type: none">• HDMI 640 × 480• HDMI 1280 × 720• DVI 640 × 480• DVI 800 × 600
Video, connector type	HDMI type C

Radio	
Wi-Fi	<ul style="list-style-type: none">• Standard: 802.11 b/g/n• Frequency range: 2412–2462 MHz• Max. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz, supports 2.1 and 4.0
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	>2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or two-bay charger
Charging time	2.5 hours to 90% capacity, charging status indicated by LEDs
Charging temperature	0°C to +45°C (+32°F to +113°F), except for the Korean market: +10°C to +45°C (+50°F to +113°F)
External power operation	AC adapter 90–260 V AC, 50/60 Hz or 12 V from a vehicle (cable with a standard plug, optional)
Power management	Automatic power-off functionality, user configurable between 5 minutes, 20 minutes, and no automatic shutdown

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40 to +70°C (–40 to +158°F)
Humidity (operating and storage)	IEC 60068-2-30 / 24 hours, 95% relative humidity, 25–40°C (77–104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-29)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1
Ergonomics	The viewfinder plus the 120° rotating optical block allow you to point the camera in multiple directions while maintaining a comfortable position



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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Physical data	
Weight	1.9 kg (4.3 lb.)
Camera size, excl. lens (L x W x H)	167.2 mm x 204.5 mm x 188.3 mm (6.6 in. x 8.0 in. x 7.4 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Warranty information	
Warranty	<ul style="list-style-type: none"> • 2 years parts and labor coverage on the camera • 5 years coverage on the battery • 10 years coverage on the detector – the most vital part of the whole camera

Shipping information	
List of contents	<ul style="list-style-type: none"> • Infrared camera with lens • Battery (2 ea.) • Battery charger • Bluetooth headset • Calibration certificate • FLIR Tools+ license card • Hard transport case • HDMI-HDMI cable • Lens cap • Memory card • Neck strap • Power supply, including multi-plugs • Printed documentation • USB cable, Std A to Micro-B
EAN-13	7332558010280
UPC-12	845188010928
Country of origin	Sweden

Supplies & accessories:

- T199064; IR lens f=36mm (28°) with case
- T199065; Close-up lens 3x (51 micron) with case
- T199066; IR lens f=21.2mm (45°) with case
- T199077; IR lens f=83.4mm (12°) with case
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198497; Large eyecup
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- T198533; USB cable Std A <-> Micro B
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10003; FLIR Tools Mobile (iPad/iPhone Application)
- APP-10004; FLIR Tools (MacOS Application)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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Website

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Customer support

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General description	
The FLIR T1020 is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and feature-rich flexibility with superior image quality at an infrared resolution of 1024 × 768 pixels.	
Benefits:	
<ul style="list-style-type: none"> • Flexible and feature rich: A wide variety of measuring and analysis functions make the FLIR T1020 flexible for your every need. Two programmable buttons provide easy access to favorite functions. • Highest performance with the latest technology: The FLIR T1020 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. With its continuous autofocus, the FLIR T1020 is a fully automatic infrared camera. • Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools. 	
Imaging and optical data	
IR resolution	1024 × 768 pixels
MSX resolution	1024 × 768 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<20 mK @ +30°C (+86°F)
Field of view (FOV)	45° × 34°
Minimum IR focus distance	0.2 m (0.66 ft.)
Minimum IR-visual alignment distance	0.5 m (1.64 ft.)
Focal length	21.2 mm (0.83 in.)
Spatial resolution (IFOV)	0.80 mrad
Lens identification	Automatic
F-number	1.1
Image frequency	30 Hz
Focus	One shot or manual
Digital zoom	1–8× continuous
Digital image enhancement	Adaptive digital noise reduction
Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm
Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen



FLIR T1020 45°

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Website

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Customer support

<http://support.flir.com>

Image presentation	
Auto orientation	Automatic landscape or portrait
Viewfinder	Built-in 800 × 480 pixels
Automatic image adjustment	Continuous, histogram based
Automatic image adjustment, type	Standard or histogram based on the image content
Manual image adjustment	Linear based, possible to adjust level/span/max./min.

Image presentation modes	
Image modes	Thermal, thermal MSX, picture in picture, digital camera
Infrared image	Full color infrared image
Visual image	Full color visual image
Multi Spectral Dynamic Imaging (MSX)	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable infrared area on the visual image
Gallery	<ul style="list-style-type: none"> Review thumbnail/full image on the camera Edit measurements/palettes/image modes on the camera

Measurement		
Object temperature range		Accuracy
-40 to +150°C (-40 to +302°F)	-40 to +5°C (-40 to +41°F)	±2°C (±3.6°F)
	+5 to +100°C (+41 to +212°F)	±1°C (±1.8°F)
	+100 to +150°C (+212 to +302°F)	±1%
0 to +650°C (+32 to +1202°F)	0 to +100°C (+32 to +212°F)	±2°C (±3.6°F)
	+100 to + 650°C (+212 to +1202°F)	±2%
+300 to +2000°C (+572 to +3632°F)	+300 to +2000°C (+572 to +3632°F)	±2%

NOTE: For HSI use, above 30 Hz frame rate, the typical accuracy will be ±2.5°C (±4.5°F), or 2.5% of reading @ 25°C (77°F).

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes and circles) with max./min./average
Profile	1 line profile with max./min. temperature
Automatic hot/cold detection	Auto hot or cold spotmeter markers within the area and profile
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets	The user can select and combine measurements from any number of spots/boxes/circles/profiles/delta
Difference temperature	Delta temperature between the measurement functions and the reference temperature
Reference temperature	Manually set using the difference temperature
Atmospheric transmission correction	Automatic, based on the inputs for distance, atmospheric temperature, and relative humidity



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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Measurement analysis	
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from the materials list
Reflected apparent temperature correction	Automatic, based on the input of the reflected temperature
External optics/windows correction	Automatic, based on the inputs of the window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external infrared window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava

Alarm	
Color alarm (isotherm)	<ul style="list-style-type: none">• Above• Below• Interval• Condensation (moisture/humidity/dewpoint)• Insulation
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information
Languages	Arabic, Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, simplified Chinese, Swedish, traditional Chinese, Turkish

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital image and measurement data, on a memory card
Storage media	Removable media SD or SDHC card. Class 10 or better recommended
Image storage mode	<ul style="list-style-type: none">• Simultaneous storage of thermal and digital images in the same JPEG file• Option to store a digital photo as a separate JPEG file
Time lapse	15 seconds to 24 hours
File formats	<ul style="list-style-type: none">• Standard JPEG, measurement data included• CSQ, measurement data included
File formats, visual	Standard JPEG, automatically associated with the corresponding thermal image

Image annotations	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table, select between predefined templates
Image description	Add short note (stored in the JPEG exif tag)



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Image annotations	
Sketch	<ul style="list-style-type: none"> Draw on the thermal/digital image or add predefined stamps Separate PC software with extensive report generation
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK

Geographic Information System	
GPS	Location data automatically added to every image from the built-in GPS
Compass	Camera direction automatically added to every image

Video recording in camera	
Radiometric IR-video recording	Real-time radiometric recording (RTRR) to the memory card
Non-radiometric IR-video recording	H.264 to the memory card
Visual video recording	H.264 to the memory card

Video streaming	
Radiometric IR-video streaming	Real-time radiometric streaming (RTRS) via USB
Non-radiometric IR-video streaming	<ul style="list-style-type: none"> H.264 video using Wi-Fi H.264 video using USB
Visual video streaming	<ul style="list-style-type: none"> H.264 video using Wi-Fi H.264 video using USB

Digital camera	
Built-in digital camera	5 Mpixel with LED light
Digital camera	Field of view adapts to the infrared lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by a dedicated button
Laser alignment	Position is automatically displayed on the infrared image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB Micro-B, Bluetooth, Wi-Fi, HDMI
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Infrastructure (network) or AP
SD Card	One card slot for removable SD memory cards
Audio	Microphone headset via Bluetooth for the voice annotation of images

USB	
USB	USB Micro-B: data transfer to and from a PC, uncompressed colorized video



FLIR T1020 45°

P/N: 72501-0103

Revision

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2017-10-31 17:02 UTC+1

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USB	
USB, standard	<ul style="list-style-type: none"> • USB 2.0 High Speed • USB Micro-B connector

Video	
Video out	<ul style="list-style-type: none"> • HDMI 640 × 480 • HDMI 1280 × 720 • DVI 640 × 480 • DVI 800 × 600
Video, connector type	HDMI type C

Radio	
Wi-Fi	<ul style="list-style-type: none"> • Standard: 802.11 b/g/n • Frequency range: 2412–2462 MHz • Max. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz, supports 2.1 and 4.0
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	>2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or two-bay charger
Charging time	2.5 hours to 90% capacity, charging status indicated by LEDs
Charging temperature	0°C to +45°C (+32°F to +113°F), except for the Korean market: +10°C to +45°C (+50°F to +113°F)
External power operation	AC adapter 90–260 V AC, 50/60 Hz or 12 V from a vehicle (cable with a standard plug, optional)
Power management	Automatic power-off functionality, user configurable between 5 minutes, 20 minutes, and no automatic shutdown

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40 to +70°C (–40 to +158°F)
Humidity (operating and storage)	IEC 60068-2-30 / 24 hours, 95% relative humidity, 25–40°C (77–104°F) / 2 cycles
EMC	<ul style="list-style-type: none"> • ETSI EN 301 489-1 (radio) • ETSI EN 301 489-17 • EN 61000-6-2 (Immunity) • EN 61000-6-3 (Emission) • FCC 47 CFR Part 15 Class B (Emission) • ICES-003
Radio spectrum	<ul style="list-style-type: none"> • ETSI EN 300 328 • FCC Part 15.247 • RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-29)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1
Ergonomics	The viewfinder plus the 120° rotating optical block allow you to point the camera in multiple directions while maintaining a comfortable position

P/N: 72501-0103

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Customer support

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Physical data	
Weight	2.0 kg (4.3 lb.)
Camera size, excl. lens (L x W x H)	167.2 mm x 204.5 mm x 188.3 mm (6.6 in. x 8.0 in. x 7.4 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Warranty information	
Warranty	<ul style="list-style-type: none"> • 2 years parts and labor coverage on the camera • 5 years coverage on the battery • 10 years coverage on the detector – the most vital part of the whole camera

Shipping information	
List of contents	<ul style="list-style-type: none"> • Infrared camera with lens • Battery (2 ea.) • Battery charger • Bluetooth headset • Calibration certificate • FLIR Tools+ license card • Hard transport case • HDMI-HDMI cable • Lens cap • Memory card • Neck strap • Power supply, including multi-plugs • Printed documentation • USB cable, Std A to Micro-B
EAN-13	7332558010297
UPC-12	845188010935
Country of origin	Sweden

Supplies & accessories:

- T199064; IR lens f=36mm (28°) with case
- T199066; IR lens f=21.2mm (45°) with case
- T199077; IR lens f=83.4mm (12°) with case
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198497; Large eyecup
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- T198533; USB cable Std A <-> Micro B
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10003; FLIR Tools Mobile (iPad/iPhone Application)
- APP-10004; FLIR Tools (MacOS Application)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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General description	
The FLIR T1020 is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and feature-rich flexibility with superior image quality at an infrared resolution of 1024 × 768 pixels.	
Benefits:	
<ul style="list-style-type: none"> • Flexible and feature rich: A wide variety of measuring and analysis functions make the FLIR T1020 flexible for your every need. Two programmable buttons provide easy access to favorite functions. • Highest performance with the latest technology: The FLIR T1020 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. With its continuous autofocus, the FLIR T1020 is a fully automatic infrared camera. • Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools. 	
Imaging and optical data	
IR resolution	1024 × 768 pixels
MSX resolution	1024 × 768 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<20 mK @ +30°C (+86°F)
Field of view (FOV)	28° × 21°
Minimum IR focus distance	0.4 m (1.32 ft.)
Minimum IR-visual alignment distance	0.4 m (1.32 ft.)
Focal length	36 mm (1.42 in.)
Spatial resolution (IFOV)	0.47 mrad
Lens identification	Automatic
F-number	1.15
Image frequency	30 Hz
Focus	One shot or manual
Digital zoom	1–8× continuous
Digital image enhancement	Adaptive digital noise reduction
Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm
Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen



FLIR T1020 28° and 12°

P/N: 72501-0104

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Image presentation	
Auto orientation	Automatic landscape or portrait
Viewfinder	Built-in 800 × 480 pixels
Automatic image adjustment	Continuous, histogram based
Automatic image adjustment, type	Standard or histogram based on the image content
Manual image adjustment	Linear based, possible to adjust level/span/max./min.

Image presentation modes	
Image modes	Thermal, thermal MSX, picture in picture, digital camera
Infrared image	Full color infrared image
Visual image	Full color visual image
Multi Spectral Dynamic Imaging (MSX)	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable infrared area on the visual image
Gallery	<ul style="list-style-type: none"> Review thumbnail/full image on the camera Edit measurements/palettes/image modes on the camera

Measurement		
Object temperature range		Accuracy
-40 to +150°C (-40 to +302°F)	-40 to +5°C (-40 to +41°F)	±2°C (±3.6°F)
	+5 to +100°C (+41 to +212°F)	±1°C (±1.8°F)
	+100 to +150°C (+212 to +302°F)	±1%
0 to +650°C (+32 to +1202°F)	0 to +100°C (+32 to +212°F)	±2°C (±3.6°F)
	+100 to + 650°C (+212 to +1202°F)	±2%
+300 to +2000°C (+572 to +3632°F)	+300 to +2000°C (+572 to +3632°F)	±2%

NOTE: For HSI use, above 30 Hz frame rate, the typical accuracy will be ±2.5°C (±4.5°F), or 2.5% of reading @ 25°C (77°F).

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes and circles) with max./min./average
Profile	1 line profile with max./min. temperature
Automatic hot/cold detection	Auto hot or cold spotmeter markers within the area and profile
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets	The user can select and combine measurements from any number of spots/boxes/circles/profiles/delta
Difference temperature	Delta temperature between the measurement functions and the reference temperature
Reference temperature	Manually set using the difference temperature
Atmospheric transmission correction	Automatic, based on the inputs for distance, atmospheric temperature, and relative humidity



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Measurement analysis	
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from the materials list
Reflected apparent temperature correction	Automatic, based on the input of the reflected temperature
External optics/windows correction	Automatic, based on the inputs of the window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external infrared window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava

Alarm	
Color alarm (isotherm)	<ul style="list-style-type: none"> Above Below Interval Condensation (moisture/humidity/dewpoint) Insulation
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information
Languages	Arabic, Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, simplified Chinese, Swedish, traditional Chinese, Turkish

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital image and measurement data, on a memory card
Storage media	Removable media SD or SDHC card. Class 10 or better recommended
Image storage mode	<ul style="list-style-type: none"> Simultaneous storage of thermal and digital images in the same JPEG file Option to store a digital photo as a separate JPEG file
Time lapse	15 seconds to 24 hours
File formats	<ul style="list-style-type: none"> Standard JPEG, measurement data included CSQ, measurement data included
File formats, visual	Standard JPEG, automatically associated with the corresponding thermal image

Image annotations	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table, select between predefined templates
Image description	Add short note (stored in the JPEG exif tag)



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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Image annotations	
Sketch	<ul style="list-style-type: none">• Draw on the thermal/digital image or add predefined stamps• Separate PC software with extensive report generation
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK

Geographic Information System	
GPS	Location data automatically added to every image from the built-in GPS
Compass	Camera direction automatically added to every image

Video recording in camera	
Radiometric IR-video recording	Real-time radiometric recording (RTRR) to the memory card
Non-radiometric IR-video recording	H.264 to the memory card
Visual video recording	H.264 to the memory card

Video streaming	
Radiometric IR-video streaming	Real-time radiometric streaming (RTRS) via USB
Non-radiometric IR-video streaming	<ul style="list-style-type: none">• H.264 video using Wi-Fi• H.264 video using USB
Visual video streaming	<ul style="list-style-type: none">• H.264 video using Wi-Fi• H.264 video using USB

Digital camera	
Built-in digital camera	5 Mpixel with LED light
Digital camera	Field of view adapts to the infrared lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by a dedicated button
Laser alignment	Position is automatically displayed on the infrared image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB Micro-B, Bluetooth, Wi-Fi, HDMI
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Infrastructure (network) or AP
SD Card	One card slot for removable SD memory cards
Audio	Microphone headset via Bluetooth for the voice annotation of images

USB	
USB	USB Micro-B: data transfer to and from a PC, uncompressed colorized video



FLIR T1020 28° and 12°

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USB	
USB, standard	<ul style="list-style-type: none">• USB 2.0 High Speed• USB Micro-B connector

Video	
Video out	<ul style="list-style-type: none">• HDMI 640 × 480• HDMI 1280 × 720• DVI 640 × 480• DVI 800 × 600
Video, connector type	HDMI type C

Radio	
Wi-Fi	<ul style="list-style-type: none">• Standard: 802.11 b/g/n• Frequency range: 2412–2462 MHz• Max. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz, supports 2.1 and 4.0
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	>2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or two-bay charger
Charging time	2.5 hours to 90% capacity, charging status indicated by LEDs
Charging temperature	0°C to +45°C (+32°F to +113°F), except for the Korean market: +10°C to +45°C (+50°F to +113°F)
External power operation	AC adapter 90–260 V AC, 50/60 Hz or 12 V from a vehicle (cable with a standard plug, optional)
Power management	Automatic power-off functionality, user configurable between 5 minutes, 20 minutes, and no automatic shutdown

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40 to +70°C (–40 to +158°F)
Humidity (operating and storage)	IEC 60068-2-30 / 24 hours, 95% relative humidity, 25–40°C (77–104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-29)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1
Ergonomics	The viewfinder plus the 120° rotating optical block allow you to point the camera in multiple directions while maintaining a comfortable position



FLIR T1020 28° and 12°

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Physical data	
Weight	1.9 kg (4.3 lb.)
Camera size, excl. lens (L × W × H)	167.2 mm × 204.5 mm × 188.3 mm (6.6 in. × 8.0 in. × 7.4 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Warranty information	
Warranty	<ul style="list-style-type: none">• 2 years parts and labor coverage on the camera• 5 years coverage on the battery• 10 years coverage on the detector – the most vital part of the whole camera

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery (2 ea.)• Battery charger• Bluetooth headset• Calibration certificate• FLIR Tools+ license card• Hard transport case• HDMI-HDMI cable• IR lens, 12°• Lens cap• Memory card• Neck strap• Power supply, including multi-plugs• Printed documentation• USB cable, Std A to Micro-B
Packaging, weight	7.2 kg (15.8 lb.)
Packaging, size	494 × 355 × 188 mm (19.4 × 14.0 × 7.4 in.)
EAN-13	7332558011287
UPC-12	845188012168
Country of origin	Sweden

Supplies & accessories:

- T199064; IR lens f=36mm (28°) with case
- T199065; Close-up lens 3x (51 micron) with case
- T199066; IR lens f=21.2mm (45°) with case
- T199077; IR lens f=83.4mm (12°) with case
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198497; Large eyecup
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- T198533; USB cable Std A <-> Micro B
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10003; FLIR Tools Mobile (iPad/iPhone Application)
- APP-10004; FLIR Tools (MacOS Application)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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Customer support

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General description	
The FLIR T1020 is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and feature-rich flexibility with superior image quality at an infrared resolution of 1024 × 768 pixels.	
Benefits:	
<ul style="list-style-type: none"> • Flexible and feature rich: A wide variety of measuring and analysis functions make the FLIR T1020 flexible for your every need. Two programmable buttons provide easy access to favorite functions. • Highest performance with the latest technology: The FLIR T1020 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. With its continuous autofocus, the FLIR T1020 is a fully automatic infrared camera. • Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools. 	
Imaging and optical data	
IR resolution	1024 × 768 pixels
MSX resolution	1024 × 768 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<20 mK @ +30°C (+86°F)
Field of view (FOV)	28° × 21°
Minimum IR focus distance	0.4 m (1.32 ft.)
Minimum IR-visual alignment distance	0.4 m (1.32 ft.)
Focal length	36 mm (1.42 in.)
Spatial resolution (IFOV)	0.47 mrad
Lens identification	Automatic
F-number	1.15
Image frequency	30 Hz
Focus	One shot or manual
Digital zoom	1–8× continuous
Digital image enhancement	Adaptive digital noise reduction
Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm
Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen



FLIR T1020 28° and 45°

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Image presentation	
Auto orientation	Automatic landscape or portrait
Viewfinder	Built-in 800 × 480 pixels
Automatic image adjustment	Continuous, histogram based
Automatic image adjustment, type	Standard or histogram based on the image content
Manual image adjustment	Linear based, possible to adjust level/span/max./min.

Image presentation modes	
Image modes	Thermal, thermal MSX, picture in picture, digital camera
Infrared image	Full color infrared image
Visual image	Full color visual image
Multi Spectral Dynamic Imaging (MSX)	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable infrared area on the visual image
Gallery	<ul style="list-style-type: none"> Review thumbnail/full image on the camera Edit measurements/palettes/image modes on the camera

Measurement		
Object temperature range		Accuracy
-40 to +150°C (-40 to +302°F)	-40 to +5°C (-40 to +41°F)	±2°C (±3.6°F)
	+5 to +100°C (+41 to +212°F)	±1°C (±1.8°F)
	+100 to +150°C (+212 to +302°F)	±1%
0 to +650°C (+32 to +1202°F)	0 to +100°C (+32 to +212°F)	±2°C (±3.6°F)
	+100 to +650°C (+212 to +1202°F)	±2%
+300 to +2000°C (+572 to +3632°F)	+300 to +2000°C (+572 to +3632°F)	±2%

NOTE: For HSI use, above 30 Hz frame rate, the typical accuracy will be ±2.5°C (±4.5°F), or 2.5% of reading @ 25°C (77°F).

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes and circles) with max./min./average
Profile	1 line profile with max./min. temperature
Automatic hot/cold detection	Auto hot or cold spotmeter markers within the area and profile
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets	The user can select and combine measurements from any number of spots/boxes/circles/profiles/delta
Difference temperature	Delta temperature between the measurement functions and the reference temperature
Reference temperature	Manually set using the difference temperature
Atmospheric transmission correction	Automatic, based on the inputs for distance, atmospheric temperature, and relative humidity



FLIR T1020 28° and 45°

P/N: 72501-0105

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Website

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Customer support

<http://support.flir.com>

Measurement analysis	
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from the materials list
Reflected apparent temperature correction	Automatic, based on the input of the reflected temperature
External optics/windows correction	Automatic, based on the inputs of the window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external infrared window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava

Alarm	
Color alarm (isotherm)	<ul style="list-style-type: none"> Above Below Interval Condensation (moisture/humidity/dewpoint) Insulation
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information
Languages	Arabic, Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, simplified Chinese, Swedish, traditional Chinese, Turkish

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital image and measurement data, on a memory card
Storage media	Removable media SD or SDHC card. Class 10 or better recommended
Image storage mode	<ul style="list-style-type: none"> Simultaneous storage of thermal and digital images in the same JPEG file Option to store a digital photo as a separate JPEG file
Time lapse	15 seconds to 24 hours
File formats	<ul style="list-style-type: none"> Standard JPEG, measurement data included CSQ, measurement data included
File formats, visual	Standard JPEG, automatically associated with the corresponding thermal image

Image annotations	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table, select between predefined templates
Image description	Add short note (stored in the JPEG exif tag)



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Image annotations	
Sketch	<ul style="list-style-type: none"> Draw on the thermal/digital image or add predefined stamps Separate PC software with extensive report generation
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK

Geographic Information System	
GPS	Location data automatically added to every image from the built-in GPS
Compass	Camera direction automatically added to every image

Video recording in camera	
Radiometric IR-video recording	Real-time radiometric recording (RTRR) to the memory card
Non-radiometric IR-video recording	H.264 to the memory card
Visual video recording	H.264 to the memory card

Video streaming	
Radiometric IR-video streaming	Real-time radiometric streaming (RTRS) via USB
Non-radiometric IR-video streaming	<ul style="list-style-type: none"> H.264 video using Wi-Fi H.264 video using USB
Visual video streaming	<ul style="list-style-type: none"> H.264 video using Wi-Fi H.264 video using USB

Digital camera	
Built-in digital camera	5 Mpixel with LED light
Digital camera	Field of view adapts to the infrared lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by a dedicated button
Laser alignment	Position is automatically displayed on the infrared image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB Micro-B, Bluetooth, Wi-Fi, HDMI
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Infrastructure (network) or AP
SD Card	One card slot for removable SD memory cards
Audio	Microphone headset via Bluetooth for the voice annotation of images

USB	
USB	USB Micro-B: data transfer to and from a PC, uncompressed colorized video



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USB	
USB, standard	<ul style="list-style-type: none">• USB 2.0 High Speed• USB Micro-B connector

Video	
Video out	<ul style="list-style-type: none">• HDMI 640 × 480• HDMI 1280 × 720• DVI 640 × 480• DVI 800 × 600
Video, connector type	HDMI type C

Radio	
Wi-Fi	<ul style="list-style-type: none">• Standard: 802.11 b/g/n• Frequency range: 2412–2462 MHz• Max. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz, supports 2.1 and 4.0
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	>2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or two-bay charger
Charging time	2.5 hours to 90% capacity, charging status indicated by LEDs
Charging temperature	0°C to +45°C (+32°F to +113°F), except for the Korean market: +10°C to +45°C (+50°F to +113°F)
External power operation	AC adapter 90–260 V AC, 50/60 Hz or 12 V from a vehicle (cable with a standard plug, optional)
Power management	Automatic power-off functionality, user configurable between 5 minutes, 20 minutes, and no automatic shutdown

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40 to +70°C (–40 to +158°F)
Humidity (operating and storage)	IEC 60068-2-30 / 24 hours, 95% relative humidity, 25–40°C (77–104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-29)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1
Ergonomics	The viewfinder plus the 120° rotating optical block allow you to point the camera in multiple directions while maintaining a comfortable position



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Customer support

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Physical data	
Weight	1.9 kg (4.3 lb.)
Camera size, excl. lens (L x W x H)	167.2 mm x 204.5 mm x 188.3 mm (6.6 in. x 8.0 in. x 7.4 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Warranty information	
Warranty	<ul style="list-style-type: none"> • 2 years parts and labor coverage on the camera • 5 years coverage on the battery • 10 years coverage on the detector – the most vital part of the whole camera

Shipping information	
Packaging, size	Cardboard box
List of contents	<ul style="list-style-type: none"> • Infrared camera with lens • Battery (2 ea.) • Battery charger • Bluetooth headset • Calibration certificate • FLIR Tools+ license card • Hard transport case • HDMI-HDMI cable • IR lens, 45° • Lens cap • Memory card • Neck strap • Power supply, including multi-plugs • Printed documentation • USB cable, Std A to Micro-B
Packaging, weight	6.9 kg (15.2 lb.)
Packaging, size	494 x 355 x 188 mm (19.4 x 14.0 x 7.4 in.)
EAN-13	7332558011294
UPC-12	845188012175
Country of origin	Sweden

Supplies & accessories:

- T199064; IR lens f=36mm (28°) with case
- T199065; Close-up lens 3x (51 micron) with case
- T199066; IR lens f=21.2mm (45°) with case
- T199077; IR lens f=83.4mm (12°) with case
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198497; Large eyecup
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- T198533; USB cable Std A <-> Micro B
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10003; FLIR Tools Mobile (iPad/iPhone Application)
- APP-10004; FLIR Tools (MacOS Application)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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General description	
The FLIR T1020 is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and feature-rich flexibility with superior image quality at an infrared resolution of 1024 × 768 pixels.	
Benefits:	
<ul style="list-style-type: none"> • Flexible and feature rich: A wide variety of measuring and analysis functions make the FLIR T1020 flexible for your every need. Two programmable buttons provide easy access to favorite functions. • Highest performance with the latest technology: The FLIR T1020 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. With its continuous autofocus, the FLIR T1020 is a fully automatic infrared camera. • Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools. 	
Imaging and optical data	
IR resolution	1024 × 768 pixels
MSX resolution	1024 × 768 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<20 mK @ +30°C (+86°F)
Field of view (FOV)	28° × 21°
Minimum IR focus distance	0.4 m (1.32 ft.)
Minimum IR-visual alignment distance	0.4 m (1.32 ft.)
Focal length	36 mm (1.42 in.)
Spatial resolution (IFOV)	0.47 mrad
Lens identification	Automatic
F-number	1.15
Image frequency	30 Hz
Focus	One shot or manual
Digital zoom	1–8× continuous
Digital image enhancement	Adaptive digital noise reduction
Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm
Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen



FLIR T1020 28°, 12°, and 45°

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Image presentation	
Auto orientation	Automatic landscape or portrait
Viewfinder	Built-in 800 × 480 pixels
Automatic image adjustment	Continuous, histogram based
Automatic image adjustment, type	Standard or histogram based on the image content
Manual image adjustment	Linear based, possible to adjust level/span/max./min.

Image presentation modes	
Image modes	Thermal, thermal MSX, picture in picture, digital camera
Infrared image	Full color infrared image
Visual image	Full color visual image
Multi Spectral Dynamic Imaging (MSX)	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable infrared area on the visual image
Gallery	<ul style="list-style-type: none"> Review thumbnail/full image on the camera Edit measurements/palettes/image modes on the camera

Measurement		
Object temperature range		Accuracy
-40 to +150°C (-40 to +302°F)	-40 to +5°C (-40 to +41°F)	±2°C (±3.6°F)
	+5 to +100°C (+41 to +212°F)	±1°C (±1.8°F)
	+100 to +150°C (+212 to +302°F)	±1%
0 to +650°C (+32 to +1202°F)	0 to +100°C (+32 to +212°F)	±2°C (±3.6°F)
	+100 to +650°C (+212 to +1202°F)	±2%
+300 to +2000°C (+572 to +3632°F)	+300 to +2000°C (+572 to +3632°F)	±2%

NOTE: For HSI use, above 30 Hz frame rate, the typical accuracy will be ±2.5°C (±4.5°F), or 2.5% of reading @ 25°C (77°F).

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes and circles) with max./min./average
Profile	1 line profile with max./min. temperature
Automatic hot/cold detection	Auto hot or cold spotmeter markers within the area and profile
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets	The user can select and combine measurements from any number of spots/boxes/circles/profiles/delta
Difference temperature	Delta temperature between the measurement functions and the reference temperature
Reference temperature	Manually set using the difference temperature
Atmospheric transmission correction	Automatic, based on the inputs for distance, atmospheric temperature, and relative humidity



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Website

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Customer support

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Measurement analysis	
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from the materials list
Reflected apparent temperature correction	Automatic, based on the input of the reflected temperature
External optics/windows correction	Automatic, based on the inputs of the window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external infrared window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava

Alarm	
Color alarm (isotherm)	<ul style="list-style-type: none"> Above Below Interval Condensation (moisture/humidity/dewpoint) Insulation
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information
Languages	Arabic, Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, simplified Chinese, Swedish, traditional Chinese, Turkish

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital image and measurement data, on a memory card
Storage media	Removable media SD or SDHC card. Class 10 or better recommended
Image storage mode	<ul style="list-style-type: none"> Simultaneous storage of thermal and digital images in the same JPEG file Option to store a digital photo as a separate JPEG file
Time lapse	15 seconds to 24 hours
File formats	<ul style="list-style-type: none"> Standard JPEG, measurement data included CSQ, measurement data included
File formats, visual	Standard JPEG, automatically associated with the corresponding thermal image

Image annotations	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table, select between predefined templates
Image description	Add short note (stored in the JPEG exif tag)



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Website

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Customer support

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Image annotations	
Sketch	<ul style="list-style-type: none"> Draw on the thermal/digital image or add predefined stamps Separate PC software with extensive report generation
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK

Geographic Information System	
GPS	Location data automatically added to every image from the built-in GPS
Compass	Camera direction automatically added to every image

Video recording in camera	
Radiometric IR-video recording	Real-time radiometric recording (RTRR) to the memory card
Non-radiometric IR-video recording	H.264 to the memory card
Visual video recording	H.264 to the memory card

Video streaming	
Radiometric IR-video streaming	Real-time radiometric streaming (RTRS) via USB
Non-radiometric IR-video streaming	<ul style="list-style-type: none"> H.264 video using Wi-Fi H.264 video using USB
Visual video streaming	<ul style="list-style-type: none"> H.264 video using Wi-Fi H.264 video using USB

Digital camera	
Built-in digital camera	5 Mpixel with LED light
Digital camera	Field of view adapts to the infrared lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by a dedicated button
Laser alignment	Position is automatically displayed on the infrared image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB Micro-B, Bluetooth, Wi-Fi, HDMI
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Infrastructure (network) or AP
SD Card	One card slot for removable SD memory cards
Audio	Microphone headset via Bluetooth for the voice annotation of images

USB	
USB	USB Micro-B: data transfer to and from a PC, uncompressed colorized video



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USB	
USB, standard	<ul style="list-style-type: none">• USB 2.0 High Speed• USB Micro-B connector

Video	
Video out	<ul style="list-style-type: none">• HDMI 640 × 480• HDMI 1280 × 720• DVI 640 × 480• DVI 800 × 600
Video, connector type	HDMI type C

Radio	
Wi-Fi	<ul style="list-style-type: none">• Standard: 802.11 b/g/n• Frequency range: 2412–2462 MHz• Max. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz, supports 2.1 and 4.0
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	>2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or two-bay charger
Charging time	2.5 hours to 90% capacity, charging status indicated by LEDs
Charging temperature	0°C to +45°C (+32°F to +113°F), except for the Korean market: +10°C to +45°C (+50°F to +113°F)
External power operation	AC adapter 90–260 V AC, 50/60 Hz or 12 V from a vehicle (cable with a standard plug, optional)
Power management	Automatic power-off functionality, user configurable between 5 minutes, 20 minutes, and no automatic shutdown

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40 to +70°C (–40 to +158°F)
Humidity (operating and storage)	IEC 60068-2-30 / 24 hours, 95% relative humidity, 25–40°C (77–104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-29)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1
Ergonomics	The viewfinder plus the 120° rotating optical block allow you to point the camera in multiple directions while maintaining a comfortable position



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Website

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Customer support

<http://support.flir.com>

Physical data	
Weight	1.9 kg (4.3 lb.)
Camera size, excl. lens (L x W x H)	167.2 mm x 204.5 mm x 188.3 mm (6.6 in. x 8.0 in. x 7.4 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Warranty information	
Warranty	<ul style="list-style-type: none"> • 2 years parts and labor coverage on the camera • 5 years coverage on the battery • 10 years coverage on the detector – the most vital part of the whole camera

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Infrared camera with lens • Battery (2 ea.) • Battery charger • Bluetooth headset • Calibration certificate • FLIR Tools+ license card • Hard transport case • HDMI-HDMI cable • IR lens, 12° • IR lens, 45° • Lens cap • Memory card • Neck strap • Power supply, including multi-plugs • Printed documentation • USB cable, Std A to Micro-B
Packaging, weight	8.2 kg (18.0 lb.)
Packaging, size	494 x 355 x 188 mm (19.4 x 14.0 x 7.4 in.)
EAN-13	7332558011300
UPC-12	845188012182
Country of origin	Sweden

Supplies & accessories:

- T199064; IR lens f=36mm (28°) with case
- T199065; Close-up lens 3x (51 micron) with case
- T199066; IR lens f=21.2mm (45°) with case
- T199077; IR lens f=83.4mm (12°) with case
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198497; Large eyecup
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- T198533; USB cable Std A <-> Micro B
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10003; FLIR Tools Mobile (iPad/iPhone Application)
- APP-10004; FLIR Tools (MacOS Application)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
<p>The FLIR T1030sc is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and feature-rich flexibility with superior image quality at an infrared resolution of 1024 × 768 pixels. High accuracy and sensitivity together with radiometric recording and streaming options make the FLIR T1030sc well suited for advanced research and development.</p>	
<p>Benefits:</p> <ul style="list-style-type: none"> • Tailor made for research and development: The FLIR T1030sc has high accuracy and high sensitivity, to accurately measure the smallest temperature differences. With real-time radiometric recording, it is possible to capture fast events on the camera's SD card for further analysis by the supplied analysis software. • Flexible and feature rich: A wide variety of measuring and analysis functions make the FLIR T1030sc flexible for your every need. Two programmable buttons provide easy access to favorite functions. • Highest performance with the latest technology: The FLIR T1030sc is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. With its continuous autofocus, the FLIR T1030sc is a fully automatic infrared camera. • Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools. 	
Imaging and optical data	
IR resolution	1024 × 768 pixels
MSX resolution	1024 × 768 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<20 mK @ +30°C (+86°F)
Field of view (FOV)	12° × 9°
Minimum IR focus distance	1.3 m (4.26 ft.)
Minimum IR–visual alignment distance	1.3 m (4.26 ft.)
Focal length	83.4 mm (3.28 in.)
Spatial resolution (IFOV)	0.20 mrad
Lens identification	Automatic
F-number	1.2
Image frequency	30 Hz
Focus	One shot or manual
Digital zoom	1–8× continuous
Digital image enhancement	Adaptive digital noise reduction
Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm
Time constant	< 10 ms



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Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Viewfinder	Built-in 800 × 480 pixels
Automatic image adjustment	Continuous, histogram based
Automatic image adjustment, type	Standard or histogram based on the image content
Manual image adjustment	Linear based, possible to adjust level/span/max./min.

Image presentation modes	
Image modes	Thermal, thermal MSX, picture in picture, digital camera
Infrared image	Full color infrared image
Visual image	Full color visual image
Multi Spectral Dynamic Imaging (MSX)	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable infrared area on the visual image
Gallery	<ul style="list-style-type: none"> Review thumbnail/full image on the camera Edit measurements/palettes/image modes on the camera

Measurement		
Object temperature range		Accuracy
-40 to +150°C (-40 to +302°F)	-40 to +5°C (-40 to +41°F)	±2°C (±3.6°F)
	+5 to +100°C (+41 to +212°F)	±1°C (±1.8°F)
	+100 to +150°C (+212 to +302°F)	±1%
0 to +650°C (+32 to +1202°F)	0 to +100°C (+32 to +212°F)	±2°C (±3.6°F)
	+100 to +650°C (+212 to +1202°F)	±2%
+300 to +2000°C (+572 to +3632°F)	+300 to +2000°C (+572 to +3632°F)	±2%

NOTE: For HSI use, above 30 Hz frame rate, the typical accuracy will be ±2.5°C (±4.5°F), or 2.5% of reading @ 25°C (77°F).

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes and circles) with max./min./average
Profile	1 line profile with max./min. temperature
Automatic hot/cold detection	Auto hot or cold spotmeter markers within the area and profile
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets	The user can select and combine measurements from any number of spots/boxes/circles/profiles/delta
Difference temperature	Delta temperature between the measurement functions and the reference temperature



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Website

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Customer support

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Measurement analysis	
Reference temperature	Manually set using the difference temperature
Atmospheric transmission correction	Automatic, based on the inputs for distance, atmospheric temperature, and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from the materials list
Reflected apparent temperature correction	Automatic, based on the input of the reflected temperature
External optics/windows correction	Automatic, based on the inputs of the window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external infrared window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava

Alarm	
Color alarm (isotherm)	<ul style="list-style-type: none"> Above Below Interval Condensation (moisture/humidity/dewpoint) Insulation
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information
Languages	Arabic, Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, simplified Chinese, Swedish, traditional Chinese, Turkish

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital image and measurement data, on a memory card
Storage media	Removable media SD or SDHC card. Class 10 or better recommended
Image storage mode	<ul style="list-style-type: none"> Simultaneous storage of thermal and digital images in the same JPEG file Option to store a digital photo as a separate JPEG file
Time lapse	15 seconds to 24 hours
File formats	<ul style="list-style-type: none"> Standard JPEG, measurement data included CSQ, measurement data included
File formats, visual	Standard JPEG, automatically associated with the corresponding thermal image

Image annotations	
Voice	60 seconds (via Bluetooth) stored with the image



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Image annotations	
Text	Add table, select between predefined templates
Image description	Add short note (stored in the JPEG exif tag)
Sketch	<ul style="list-style-type: none">Draw on the thermal/digital image or add predefined stampsSeparate PC software with extensive report generation
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK

Geographic Information System	
GPS	Location data automatically added to every image from the built-in GPS
Compass	Camera direction automatically added to every image

Video recording in camera	
Radiometric IR-video recording	Real-time radiometric recording (RTRR) to the memory card
Non-radiometric IR-video recording	H.264 to the memory card
Visual video recording	H.264 to the memory card

Video streaming	
Radiometric IR-video streaming	<ul style="list-style-type: none">Full dynamic un-compressed 120 Hz 16-bit full frame (2 Gbit) to a PC using an HSI boxReal-time radiometric streaming 30 Hz (RTRS) via USB
Non-radiometric IR-video streaming	<ul style="list-style-type: none">H.264 video using Wi-FiH.264 video using USB
Visual video streaming	<ul style="list-style-type: none">H.264 video using Wi-FiH.264 video using USB
Windowing	<ul style="list-style-type: none">30 Hz: 1024 × 768 (full image height)Based on 30 Hz: 120 Hz windowing 1024 × 192 (¼ of full image height), for range -40 to +150°C (-40 to +302°F)120 Hz: 1024 × 768 (full image height)Based on 120 Hz: 240 Hz windowing 1024 × 384 (½ of full image height), for range 0 to +650°C (+32 to +1202°F) and range +300 to +2000°C (+572 to +3632°F)

Digital camera	
Built-in digital camera	5 Mpixel with LED light
Digital camera	Field of view adapts to the infrared lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by a dedicated button
Laser alignment	Position is automatically displayed on the infrared image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)



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Data communication interfaces	
Interfaces	USB Micro-B, Bluetooth, Wi-Fi, HDMI, USB3 Vision via HSI box
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Infrastructure (network) or AP
SD Card	One card slot for removable SD memory cards
Audio	Microphone headset via Bluetooth for the voice annotation of images

USB	
USB	USB Micro-B: data transfer to and from a PC, uncompressed colorized video
USB, standard	<ul style="list-style-type: none">• USB 2.0 High Speed• USB Micro-B connector• USB3 Vision via HSI box

Video	
Video out	<ul style="list-style-type: none">• HDMI 640 × 480• HDMI 1280 × 720• DVI 640 × 480• DVI 800 × 600
Video, connector type	HDMI type C

Radio	
Wi-Fi	<ul style="list-style-type: none">• Standard: 802.11 b/g/n• Frequency range: 2412–2462 MHz• Max. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz, supports 2.1 and 4.0
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	>2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or two-bay charger
Charging time	2.5 hours to 90% capacity, charging status indicated by LEDs
Charging temperature	0°C to +45°C (+32°F to +113°F), except for the Korean market: +10°C to +45°C (+50°F to +113°F)
External power operation	AC adapter 90–260 V AC, 50/60 Hz or 12 V from a vehicle (cable with a standard plug, optional)
Power management	Automatic power-off functionality, user configurable between 5 minutes, 20 minutes, and no automatic shutdown

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40 to +70°C (–40 to +158°F)
Humidity (operating and storage)	IEC 60068-2-30 / 24 hours, 95% relative humidity, 25–40°C (77–104°F) / 2 cycles



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Environmental data	
EMC	<ul style="list-style-type: none">ETSI EN 301 489-1 (radio)ETSI EN 301 489-17EN 61000-6-2 (Immunity)EN 61000-6-3 (Emission)FCC 47 CFR Part 15 Class B (Emission)ICES-003
Radio spectrum	<ul style="list-style-type: none">ETSI EN 300 328FCC Part 15.247RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-29)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1
Ergonomics	The viewfinder plus the 120° rotating optical block allow you to point the camera in multiple directions while maintaining a comfortable position

Physical data	
Weight	2.1 kg (4.6 lb.)
Camera size, excl. lens (L x W x H)	167.2 mm x 204.5 mm x 188.3 mm (6.6 in. x 8.0 in. x 7.4 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Warranty information	
Warranty	<ul style="list-style-type: none">2 years parts and labor coverage on the camera5 years coverage on the battery10 years coverage on the detector – the most vital part of the whole camera

Shipping information	
List of contents	<ul style="list-style-type: none">Infrared camera with lensBattery (2 ea.)Battery chargerBluetooth headsetCalibration certificateFLIR Tools+ license cardFLIR T10xx SC kit (in separate hard transport case):<ul style="list-style-type: none">High-speed interfaceUSB cable (USB 3), 3 m (10 ft.)Digital I/O connectorFLIR ResearchIR Max license cardPrinted documentationHard transport caseHDMI-HDMI cableLens capMemory cardNeck strapPower supply, including multi-plugsPrinted documentationUSB cable, Std A to Micro-B
EAN-13	7332558010303
UPC-12	845188010942
Country of origin	Sweden

Supplies & accessories:

- T199064; IR lens f=36mm (28°) with case
- T199066; IR lens f=21.2mm (45°) with case
- T199077; IR lens f=83.4mm (12°) with case
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh



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- T911650ACC; Memory card SD Card 8 GB
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- 72500-0002; FLIR T10xx SC kit
- T198497; Large eyecup
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- T198533; USB cable Std A <-> Micro B
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10003; FLIR Tools Mobile (iPad/iPhone Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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General description	
<p>The FLIR T1030sc is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and feature-rich flexibility with superior image quality at an infrared resolution of 1024 × 768 pixels. High accuracy and sensitivity together with radiometric recording and streaming options make the FLIR T1030sc well suited for advanced research and development.</p>	
<p>Benefits:</p> <ul style="list-style-type: none"> • Tailor made for research and development: The FLIR T1030sc has high accuracy and high sensitivity, to accurately measure the smallest temperature differences. With real-time radiometric recording, it is possible to capture fast events on the camera's SD card for further analysis by the supplied analysis software. • Flexible and feature rich: A wide variety of measuring and analysis functions make the FLIR T1030sc flexible for your every need. Two programmable buttons provide easy access to favorite functions. • Highest performance with the latest technology: The FLIR T1030sc is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. With its continuous autofocus, the FLIR T1030sc is a fully automatic infrared camera. • Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools. 	
Imaging and optical data	
IR resolution	1024 × 768 pixels
MSX resolution	1024 × 768 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<20 mK @ +30°C (+86°F)
Field of view (FOV)	28° × 21°
Minimum IR focus distance	0.4 m (1.32 ft.)
Minimum IR–visual alignment distance	0.4 m (1.32 ft.)
Focal length	36 mm (1.42 in.)
Spatial resolution (IFOV)	0.47 mrad
Lens identification	Automatic
F-number	1.15
Image frequency	30 Hz
Focus	One shot or manual
Digital zoom	1–8× continuous
Digital image enhancement	Adaptive digital noise reduction
Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm
Time constant	< 10 ms



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Website

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Customer support

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Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Viewfinder	Built-in 800 × 480 pixels
Automatic image adjustment	Continuous, histogram based
Automatic image adjustment, type	Standard or histogram based on the image content
Manual image adjustment	Linear based, possible to adjust level/span/max./min.

Image presentation modes	
Image modes	Thermal, thermal MSX, picture in picture, digital camera
Infrared image	Full color infrared image
Visual image	Full color visual image
Multi Spectral Dynamic Imaging (MSX)	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable infrared area on the visual image
Gallery	<ul style="list-style-type: none"> Review thumbnail/full image on the camera Edit measurements/palettes/image modes on the camera

Measurement		
Object temperature range		Accuracy
-40 to +150°C (-40 to +302°F)	-40 to +5°C (-40 to +41°F)	±2°C (±3.6°F)
	+5 to +100°C (+41 to +212°F)	±1°C (±1.8°F)
	+100 to +150°C (+212 to +302°F)	±1%
0 to +650°C (+32 to +1202°F)	0 to +100°C (+32 to +212°F)	±2°C (±3.6°F)
	+100 to + 650°C (+212 to +1202°F)	±2%
+300 to +2000°C (+572 to +3632°F)	+300 to +2000°C (+572 to +3632°F)	±2%

NOTE: For HSI use, above 30 Hz frame rate, the typical accuracy will be ±2.5°C (±4.5°F), or 2.5% of reading @ 25°C (77°F).

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes and circles) with max./min./average
Profile	1 line profile with max./min. temperature
Automatic hot/cold detection	Auto hot or cold spotmeter markers within the area and profile
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets	The user can select and combine measurements from any number of spots/boxes/circles/profiles/delta
Difference temperature	Delta temperature between the measurement functions and the reference temperature

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Website

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Measurement analysis	
Reference temperature	Manually set using the difference temperature
Atmospheric transmission correction	Automatic, based on the inputs for distance, atmospheric temperature, and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from the materials list
Reflected apparent temperature correction	Automatic, based on the input of the reflected temperature
External optics/windows correction	Automatic, based on the inputs of the window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external infrared window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava

Alarm	
Color alarm (isotherm)	<ul style="list-style-type: none"> Above Below Interval Condensation (moisture/humidity/dewpoint) Insulation
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information
Languages	Arabic, Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, simplified Chinese, Swedish, traditional Chinese, Turkish

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital image and measurement data, on a memory card
Storage media	Removable media SD or SDHC card. Class 10 or better recommended
Image storage mode	<ul style="list-style-type: none"> Simultaneous storage of thermal and digital images in the same JPEG file Option to store a digital photo as a separate JPEG file
Time lapse	15 seconds to 24 hours
File formats	<ul style="list-style-type: none"> Standard JPEG, measurement data included CSQ, measurement data included
File formats, visual	Standard JPEG, automatically associated with the corresponding thermal image

Image annotations	
Voice	60 seconds (via Bluetooth) stored with the image



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Image annotations	
Text	Add table, select between predefined templates
Image description	Add short note (stored in the JPEG exif tag)
Sketch	<ul style="list-style-type: none">• Draw on the thermal/digital image or add predefined stamps• Separate PC software with extensive report generation
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK

Geographic Information System	
GPS	Location data automatically added to every image from the built-in GPS
Compass	Camera direction automatically added to every image

Video recording in camera	
Radiometric IR-video recording	Real-time radiometric recording (RTRR) to the memory card
Non-radiometric IR-video recording	H.264 to the memory card
Visual video recording	H.264 to the memory card

Video streaming	
Radiometric IR-video streaming	<ul style="list-style-type: none">• Full dynamic un-compressed 120 Hz 16-bit full frame (2 Gbit) to a PC using an HSI box• Real-time radiometric streaming 30 Hz (RTRS) via USB
Non-radiometric IR-video streaming	<ul style="list-style-type: none">• H.264 video using Wi-Fi• H.264 video using USB
Visual video streaming	<ul style="list-style-type: none">• H.264 video using Wi-Fi• H.264 video using USB
Windowing	<ul style="list-style-type: none">• 30 Hz: 1024 × 768 (full image height)• Based on 30 Hz: 120 Hz windowing 1024 × 192 (¼ of full image height), for range -40 to +150°C (-40 to +302°F)• 120 Hz: 1024 × 768 (full image height)• Based on 120 Hz: 240 Hz windowing 1024 × 384 (½ of full image height), for range 0 to +650°C (+32 to +1202°F) and range +300 to +2000°C (+572 to +3632°F)

Digital camera	
Built-in digital camera	5 Mpixel with LED light
Digital camera	Field of view adapts to the infrared lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by a dedicated button
Laser alignment	Position is automatically displayed on the infrared image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)



FLIR T1030sc 28°

P/N: 72501-0202

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Data communication interfaces	
Interfaces	USB Micro-B, Bluetooth, Wi-Fi, HDMI, USB3 Vision via HSI box
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Infrastructure (network) or AP
SD Card	One card slot for removable SD memory cards
Audio	Microphone headset via Bluetooth for the voice annotation of images

USB	
USB	USB Micro-B: data transfer to and from a PC, uncompressed colorized video
USB, standard	<ul style="list-style-type: none"> • USB 2.0 High Speed • USB Micro-B connector • USB3 Vision via HSI box

Video	
Video out	<ul style="list-style-type: none"> • HDMI 640 × 480 • HDMI 1280 × 720 • DVI 640 × 480 • DVI 800 × 600
Video, connector type	HDMI type C

Radio	
Wi-Fi	<ul style="list-style-type: none"> • Standard: 802.11 b/g/n • Frequency range: 2412–2462 MHz • Max. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz, supports 2.1 and 4.0
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	>2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or two-bay charger
Charging time	2.5 hours to 90% capacity, charging status indicated by LEDs
Charging temperature	0°C to +45°C (+32°F to +113°F), except for the Korean market: +10°C to +45°C (+50°F to +113°F)
External power operation	AC adapter 90–260 V AC, 50/60 Hz or 12 V from a vehicle (cable with a standard plug, optional)
Power management	Automatic power-off functionality, user configurable between 5 minutes, 20 minutes, and no automatic shutdown

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40 to +70°C (–40 to +158°F)
Humidity (operating and storage)	IEC 60068-2-30 / 24 hours, 95% relative humidity, 25–40°C (77–104°F) / 2 cycles



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Environmental data	
EMC	<ul style="list-style-type: none">ETSI EN 301 489-1 (radio)ETSI EN 301 489-17EN 61000-6-2 (Immunity)EN 61000-6-3 (Emission)FCC 47 CFR Part 15 Class B (Emission)ICES-003
Radio spectrum	<ul style="list-style-type: none">ETSI EN 300 328FCC Part 15.247RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-29)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1
Ergonomics	The viewfinder plus the 120° rotating optical block allow you to point the camera in multiple directions while maintaining a comfortable position

Physical data	
Weight	1.9 kg (4.3 lb.)
Camera size, excl. lens (L x W x H)	167.2 mm x 204.5 mm x 188.3 mm (6.6 in. x 8.0 in. x 7.4 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Warranty information	
Warranty	<ul style="list-style-type: none">2 years parts and labor coverage on the camera5 years coverage on the battery10 years coverage on the detector – the most vital part of the whole camera

Shipping information	
List of contents	<ul style="list-style-type: none">Infrared camera with lensBattery (2 ea.)Battery chargerBluetooth headsetCalibration certificateFLIR Tools+ license cardFLIR T10xx SC kit (in separate hard transport case):<ul style="list-style-type: none">High-speed interfaceUSB cable (USB 3), 3 m (10 ft.)Digital I/O connectorFLIR ResearchIR Max license cardPrinted documentationHard transport caseHDMI-HDMI cableLens capMemory cardNeck strapPower supply, including multi-plugsPrinted documentationUSB cable, Std A to Micro-B
EAN-13	7332558010310
UPC-12	845188010959
Country of origin	Sweden

Supplies & accessories:

- T199064; IR lens f=36mm (28°) with case
- T199065; Close-up lens 3x (51 micron) with case
- T199066; IR lens f=21.2mm (45°) with case
- T199077; IR lens f=83.4mm (12°) with case
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx



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- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- 72500-0002; FLIR T10xx SC kit
- T198497; Large eyecup
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- T198533; USB cable Std A <-> Micro B
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10003; FLIR Tools Mobile (iPad/iPhone Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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General description	
<p>The FLIR T1030sc is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and feature-rich flexibility with superior image quality at an infrared resolution of 1024 × 768 pixels. High accuracy and sensitivity together with radiometric recording and streaming options make the FLIR T1030sc well suited for advanced research and development.</p>	
<p>Benefits:</p> <ul style="list-style-type: none"> • Tailor made for research and development: The FLIR T1030sc has high accuracy and high sensitivity, to accurately measure the smallest temperature differences. With real-time radiometric recording, it is possible to capture fast events on the camera's SD card for further analysis by the supplied analysis software. • Flexible and feature rich: A wide variety of measuring and analysis functions make the FLIR T1030sc flexible for your every need. Two programmable buttons provide easy access to favorite functions. • Highest performance with the latest technology: The FLIR T1030sc is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. With its continuous autofocus, the FLIR T1030sc is a fully automatic infrared camera. • Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools. 	
Imaging and optical data	
IR resolution	1024 × 768 pixels
MSX resolution	1024 × 768 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<20 mK @ +30°C (+86°F)
Field of view (FOV)	45° × 34°
Minimum IR focus distance	0.2 m (0.66 ft.)
Minimum IR–visual alignment distance	0.5 m (1.64 ft.)
Focal length	21.2 mm (0.83 in.)
Spatial resolution (IFOV)	0.80 mrad
Lens identification	Automatic
F-number	1.1
Image frequency	30 Hz
Focus	One shot or manual
Digital zoom	1–8× continuous
Digital image enhancement	Adaptive digital noise reduction
Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm
Time constant	< 10 ms



FLIR T1030sc 45°

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Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Viewfinder	Built-in 800 × 480 pixels
Automatic image adjustment	Continuous, histogram based
Automatic image adjustment, type	Standard or histogram based on the image content
Manual image adjustment	Linear based, possible to adjust level/span/max./min.

Image presentation modes	
Image modes	Thermal, thermal MSX, picture in picture, digital camera
Infrared image	Full color infrared image
Visual image	Full color visual image
Multi Spectral Dynamic Imaging (MSX)	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable infrared area on the visual image
Gallery	<ul style="list-style-type: none"> Review thumbnail/full image on the camera Edit measurements/palettes/image modes on the camera

Measurement		
Object temperature range		Accuracy
-40 to +150°C (-40 to +302°F)	-40 to +5°C (-40 to +41°F)	±2°C (±3.6°F)
	+5 to +100°C (+41 to +212°F)	±1°C (±1.8°F)
	+100 to +150°C (+212 to +302°F)	±1%
0 to +650°C (+32 to +1202°F)	0 to +100°C (+32 to +212°F)	±2°C (±3.6°F)
	+100 to +650°C (+212 to +1202°F)	±2%
+300 to +2000°C (+572 to +3632°F)	+300 to +2000°C (+572 to +3632°F)	±2%

NOTE: For HSI use, above 30 Hz frame rate, the typical accuracy will be ±2.5°C (±4.5°F), or 2.5% of reading @ 25°C (77°F).

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes and circles) with max./min./average
Profile	1 line profile with max./min. temperature
Automatic hot/cold detection	Auto hot or cold spotmeter markers within the area and profile
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets	The user can select and combine measurements from any number of spots/boxes/circles/profiles/delta
Difference temperature	Delta temperature between the measurement functions and the reference temperature



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Measurement analysis	
Reference temperature	Manually set using the difference temperature
Atmospheric transmission correction	Automatic, based on the inputs for distance, atmospheric temperature, and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from the materials list
Reflected apparent temperature correction	Automatic, based on the input of the reflected temperature
External optics/windows correction	Automatic, based on the inputs of the window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external infrared window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava

Alarm	
Color alarm (isotherm)	<ul style="list-style-type: none"> Above Below Interval Condensation (moisture/humidity/dewpoint) Insulation
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information
Languages	Arabic, Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, simplified Chinese, Swedish, traditional Chinese, Turkish

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital image and measurement data, on a memory card
Storage media	Removable media SD or SDHC card. Class 10 or better recommended
Image storage mode	<ul style="list-style-type: none"> Simultaneous storage of thermal and digital images in the same JPEG file Option to store a digital photo as a separate JPEG file
Time lapse	15 seconds to 24 hours
File formats	<ul style="list-style-type: none"> Standard JPEG, measurement data included CSQ, measurement data included
File formats, visual	Standard JPEG, automatically associated with the corresponding thermal image

Image annotations	
Voice	60 seconds (via Bluetooth) stored with the image



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Image annotations	
Text	Add table, select between predefined templates
Image description	Add short note (stored in the JPEG exif tag)
Sketch	<ul style="list-style-type: none"> Draw on the thermal/digital image or add predefined stamps Separate PC software with extensive report generation
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK

Geographic Information System	
GPS	Location data automatically added to every image from the built-in GPS
Compass	Camera direction automatically added to every image

Video recording in camera	
Radiometric IR-video recording	Real-time radiometric recording (RTRR) to the memory card
Non-radiometric IR-video recording	H.264 to the memory card
Visual video recording	H.264 to the memory card

Video streaming	
Radiometric IR-video streaming	<ul style="list-style-type: none"> Full dynamic un-compressed 120 Hz 16-bit full frame (2 Gbit) to a PC using an HSI box Real-time radiometric streaming 30 Hz (RTRS) via USB
Non-radiometric IR-video streaming	<ul style="list-style-type: none"> H.264 video using Wi-Fi H.264 video using USB
Visual video streaming	<ul style="list-style-type: none"> H.264 video using Wi-Fi H.264 video using USB
Windowing	<ul style="list-style-type: none"> 30 Hz: 1024 × 768 (full image height) Based on 30 Hz: 120 Hz windowing 1024 × 192 (¼ of full image height), for range -40 to +150°C (-40 to +302°F) 120 Hz: 1024 × 768 (full image height) Based on 120 Hz: 240 Hz windowing 1024 × 384 (½ of full image height), for range 0 to +650°C (+32 to +1202°F) and range +300 to +2000°C (+572 to +3632°F)

Digital camera	
Built-in digital camera	5 Mpixel with LED light
Digital camera	Field of view adapts to the infrared lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by a dedicated button
Laser alignment	Position is automatically displayed on the infrared image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)



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Data communication interfaces	
Interfaces	USB Micro-B, Bluetooth, Wi-Fi, HDMI, USB3 Vision via HSI box
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Infrastructure (network) or AP
SD Card	One card slot for removable SD memory cards
Audio	Microphone headset via Bluetooth for the voice annotation of images

USB	
USB	USB Micro-B: data transfer to and from a PC, uncompressed colorized video
USB, standard	<ul style="list-style-type: none">• USB 2.0 High Speed• USB Micro-B connector• USB3 Vision via HSI box

Video	
Video out	<ul style="list-style-type: none">• HDMI 640 × 480• HDMI 1280 × 720• DVI 640 × 480• DVI 800 × 600
Video, connector type	HDMI type C

Radio	
Wi-Fi	<ul style="list-style-type: none">• Standard: 802.11 b/g/n• Frequency range: 2412–2462 MHz• Max. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz, supports 2.1 and 4.0
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	>2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or two-bay charger
Charging time	2.5 hours to 90% capacity, charging status indicated by LEDs
Charging temperature	0°C to +45°C (+32°F to +113°F), except for the Korean market: +10°C to +45°C (+50°F to +113°F)
External power operation	AC adapter 90–260 V AC, 50/60 Hz or 12 V from a vehicle (cable with a standard plug, optional)
Power management	Automatic power-off functionality, user configurable between 5 minutes, 20 minutes, and no automatic shutdown

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40 to +70°C (–40 to +158°F)
Humidity (operating and storage)	IEC 60068-2-30 / 24 hours, 95% relative humidity, 25–40°C (77–104°F) / 2 cycles



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Environmental data	
EMC	<ul style="list-style-type: none">ETSI EN 301 489-1 (radio)ETSI EN 301 489-17EN 61000-6-2 (Immunity)EN 61000-6-3 (Emission)FCC 47 CFR Part 15 Class B (Emission)ICES-003
Radio spectrum	<ul style="list-style-type: none">ETSI EN 300 328FCC Part 15.247RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-29)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1
Ergonomics	The viewfinder plus the 120° rotating optical block allow you to point the camera in multiple directions while maintaining a comfortable position

Physical data	
Weight	2.0 kg (4.3 lb.)
Camera size, excl. lens (L x W x H)	167.2 mm x 204.5 mm x 188.3 mm (6.6 in. x 8.0 in. x 7.4 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Warranty information	
Warranty	<ul style="list-style-type: none">2 years parts and labor coverage on the camera5 years coverage on the battery10 years coverage on the detector – the most vital part of the whole camera

Shipping information	
List of contents	<ul style="list-style-type: none">Infrared camera with lensBattery (2 ea.)Battery chargerBluetooth headsetCalibration certificateFLIR Tools+ license cardFLIR T10xx SC kit (in separate hard transport case):<ul style="list-style-type: none">High-speed interfaceUSB cable (USB 3), 3 m (10 ft.)Digital I/O connectorFLIR ResearchIR Max license cardPrinted documentationHard transport caseHDMI-HDMI cableLens capMemory cardNeck strapPower supply, including multi-plugsPrinted documentationUSB cable, Std A to Micro-B
EAN-13	7332558010327
UPC-12	845188010966
Country of origin	Sweden

Supplies & accessories:

- T199064; IR lens f=36mm (28°) with case
- T199066; IR lens f=21.2mm (45°) with case
- T199077; IR lens f=83.4mm (12°) with case
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh

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- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- 72500-0002; FLIR T10xx SC kit
- T198497; Large eyecup
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- T198533; USB cable Std A <-> Micro B
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10003; FLIR Tools Mobile (iPad/iPhone Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
The FLIR T1040 is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and feature-rich flexibility with superior image quality at an infrared resolution of 1024 × 768 pixels.	
Benefits:	
<ul style="list-style-type: none"> • Flexible and feature rich: A wide variety of measuring and analysis functions make the FLIR T1040 flexible for your every need. Two programmable buttons provide easy access to favorite functions. • Highest performance with the latest technology: The FLIR T1040 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. With its continuous autofocus, the FLIR T1040 is a fully automatic infrared camera. • Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools. 	
Imaging and optical data	
IR resolution	1024 × 768 pixels
MSX resolution	1024 × 768 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<20 mK @ +30°C (+86°F)
Field of view (FOV)	12° × 9°
Minimum IR focus distance	1.3 m (4.26 ft.)
Minimum IR-visual alignment distance	1.3 m (4.26 ft.)
Focal length	83.4 mm (3.28 in.)
Spatial resolution (IFOV)	0.20 mrad
Lens identification	Automatic
F-number	1.2
Image frequency	30 Hz
Focus	One shot or manual
Digital zoom	1–8× continuous
Digital image enhancement	Adaptive digital noise reduction
Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm
Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen



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Image presentation	
Auto orientation	Automatic landscape or portrait
Viewfinder	Built-in 800 × 480 pixels
Automatic image adjustment	Continuous, histogram based
Automatic image adjustment, type	Standard or histogram based on the image content
Manual image adjustment	Linear based, possible to adjust level/span/max./min.

Image presentation modes	
Image modes	Thermal, thermal MSX, picture in picture, digital camera
Infrared image	Full color infrared image
Visual image	Full color visual image
Multi Spectral Dynamic Imaging (MSX)	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable infrared area on the visual image
Gallery	<ul style="list-style-type: none"> Review thumbnail/full image on the camera Edit measurements/palettes/image modes on the camera

Measurement		
Object temperature range		Accuracy
-40 to +150°C (-40 to +302°F)	-40 to +5°C (-40 to +41°F)	±2°C (±3.6°F)
	+5 to +100°C (+41 to +212°F)	±1°C (±1.8°F)
	+100 to +150°C (+212 to +302°F)	±1%
0 to +650°C (+32 to +1202°F)	0 to +100°C (+32 to +212°F)	±2°C (±3.6°F)
	+100 to + 650°C (+212 to +1202°F)	±2%
+300 to +2000°C (+572 to +3632°F)	+300 to +2000°C (+572 to +3632°F)	±2%

NOTE: For HSI use, above 30 Hz frame rate, the typical accuracy will be ±2.5°C (±4.5°F), or 2.5% of reading @ 25°C (77°F).

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes and circles) with max./min./average
Profile	1 line profile with max./min. temperature
Automatic hot/cold detection	Auto hot or cold spotmeter markers within the area and profile
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets	The user can select and combine measurements from any number of spots/boxes/circles/profiles/delta
Difference temperature	Delta temperature between the measurement functions and the reference temperature
Reference temperature	Manually set using the difference temperature
Atmospheric transmission correction	Automatic, based on the inputs for distance, atmospheric temperature, and relative humidity



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Measurement analysis	
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from the materials list
Reflected apparent temperature correction	Automatic, based on the input of the reflected temperature
External optics/windows correction	Automatic, based on the inputs of the window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external infrared window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava

Alarm	
Color alarm (isotherm)	<ul style="list-style-type: none"> • Above • Below • Interval • Condensation (moisture/humidity/dewpoint) • Insulation
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information
Languages	Arabic, Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, simplified Chinese, Swedish, traditional Chinese, Turkish

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital image and measurement data, on a memory card
Storage media	Removable media SD or SDHC card. Class 10 or better recommended
Image storage mode	<ul style="list-style-type: none"> • Simultaneous storage of thermal and digital images in the same JPEG file • Option to store a digital photo as a separate JPEG file
Time lapse	15 seconds to 24 hours
File formats	<ul style="list-style-type: none"> • Standard JPEG, measurement data included • CSQ, measurement data included
File formats, visual	Standard JPEG, automatically associated with the corresponding thermal image

Image annotations	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table, select between predefined templates
Image description	Add short note (stored in the JPEG exif tag)



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Image annotations	
Sketch	<ul style="list-style-type: none"> Draw on the thermal/digital image or add predefined stamps Separate PC software with extensive report generation
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK

Geographic Information System	
GPS	Location data automatically added to every image from the built-in GPS
Compass	Camera direction automatically added to every image

Video recording in camera	
Radiometric IR-video recording	Real-time radiometric recording (RTRR) to the memory card
Non-radiometric IR-video recording	H.264 to the memory card
Visual video recording	H.264 to the memory card

Video streaming	
Radiometric IR-video streaming	Real-time radiometric streaming (RTRS) via USB
Non-radiometric IR-video streaming	<ul style="list-style-type: none"> H.264 video using Wi-Fi H.264 video using USB
Visual video streaming	<ul style="list-style-type: none"> H.264 video using Wi-Fi H.264 video using USB

Digital camera	
Built-in digital camera	5 Mpixel with LED light
Digital camera	Field of view adapts to the infrared lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by a dedicated button
Laser alignment	Position is automatically displayed on the infrared image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB Micro-B, Bluetooth, Wi-Fi, HDMI
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Infrastructure (network) or AP
SD Card	One card slot for removable SD memory cards
Audio	Microphone headset via Bluetooth for the voice annotation of images

USB	
USB	USB Micro-B: data transfer to and from a PC, uncompressed colorized video



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USB	
USB, standard	<ul style="list-style-type: none">• USB 2.0 High Speed• USB Micro-B connector

Video	
Video out	<ul style="list-style-type: none">• HDMI 640 × 480• HDMI 1280 × 720• DVI 640 × 480• DVI 800 × 600
Video, connector type	HDMI type C

Radio	
Wi-Fi	<ul style="list-style-type: none">• Standard: 802.11 b/g/n• Frequency range: 2412–2462 MHz• Max. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz, supports 2.1 and 4.0
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	>2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or two-bay charger
Charging time	2.5 hours to 90% capacity, charging status indicated by LEDs
Charging temperature	0°C to +45°C (+32°F to +113°F), except for the Korean market: +10°C to +45°C (+50°F to +113°F)
External power operation	AC adapter 90–260 V AC, 50/60 Hz or 12 V from a vehicle (cable with a standard plug, optional)
Power management	Automatic power-off functionality, user configurable between 5 minutes, 20 minutes, and no automatic shutdown

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40 to +70°C (–40 to +158°F)
Humidity (operating and storage)	IEC 60068-2-30 / 24 hours, 95% relative humidity, 25–40°C (77–104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-29)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1
Ergonomics	The viewfinder plus the 120° rotating optical block allow you to point the camera in multiple directions while maintaining a comfortable position



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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Physical data	
Weight	2.1 kg (4.6 lb.)
Camera size, excl. lens (L x W x H)	167.2 mm x 204.5 mm x 188.3 mm (6.6 in. x 8.0 in. x 7.4 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Warranty information	
Warranty	<ul style="list-style-type: none">• 2 years parts and labor coverage on the camera• 5 years coverage on the battery• 10 years coverage on the detector – the most vital part of the whole camera

Shipping information	
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery (2 ea.)• Battery charger• Bluetooth headset• Calibration certificate• FLIR Tools+ license card• Hard transport case• HDMI-HDMI cable• Lens cap• Memory card• Neck strap• Power supply, including multi-plugs• Printed documentation• USB cable, Std A to Micro-B
EAN-13	7332558010389
UPC-12	845188011031
Country of origin	Sweden

Supplies & accessories:

- T199064; IR lens f=36mm (28°) with case
- T199066; IR lens f=21.2mm (45°) with case
- T199077; IR lens f=83.4mm (12°) with case
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198497; Large eyecup
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- T198533; USB cable Std A <-> Micro B
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10003; FLIR Tools Mobile (iPad/iPhone Application)
- APP-10004; FLIR Tools (MacOS Application)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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General description	
The FLIR T1040 is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and feature-rich flexibility with superior image quality at an infrared resolution of 1024 × 768 pixels.	
Benefits:	
<ul style="list-style-type: none"> • Flexible and feature rich: A wide variety of measuring and analysis functions make the FLIR T1040 flexible for your every need. Two programmable buttons provide easy access to favorite functions. • Highest performance with the latest technology: The FLIR T1040 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. With its continuous autofocus, the FLIR T1040 is a fully automatic infrared camera. • Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools. 	
Imaging and optical data	
IR resolution	1024 × 768 pixels
MSX resolution	1024 × 768 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<20 mK @ +30°C (+86°F)
Field of view (FOV)	28° × 21°
Minimum IR focus distance	0.4 m (1.32 ft.)
Minimum IR-visual alignment distance	0.4 m (1.32 ft.)
Focal length	36 mm (1.42 in.)
Spatial resolution (IFOV)	0.47 mrad
Lens identification	Automatic
F-number	1.15
Image frequency	30 Hz
Focus	One shot or manual
Digital zoom	1–8× continuous
Digital image enhancement	Adaptive digital noise reduction
Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm
Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen



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Website

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Customer support

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Image presentation	
Auto orientation	Automatic landscape or portrait
Viewfinder	Built-in 800 × 480 pixels
Automatic image adjustment	Continuous, histogram based
Automatic image adjustment, type	Standard or histogram based on the image content
Manual image adjustment	Linear based, possible to adjust level/span/max./min.

Image presentation modes	
Image modes	Thermal, thermal MSX, picture in picture, digital camera
Infrared image	Full color infrared image
Visual image	Full color visual image
Multi Spectral Dynamic Imaging (MSX)	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable infrared area on the visual image
Gallery	<ul style="list-style-type: none"> Review thumbnail/full image on the camera Edit measurements/palettes/image modes on the camera

Measurement		
Object temperature range		Accuracy
-40 to +150°C (-40 to +302°F)	-40 to +5°C (-40 to +41°F)	±2°C (±3.6°F)
	+5 to +100°C (+41 to +212°F)	±1°C (±1.8°F)
	+100 to +150°C (+212 to +302°F)	±1%
0 to +650°C (+32 to +1202°F)	0 to +100°C (+32 to +212°F)	±2°C (±3.6°F)
	+100 to + 650°C (+212 to +1202°F)	±2%
+300 to +2000°C (+572 to +3632°F)	+300 to +2000°C (+572 to +3632°F)	±2%

NOTE: For HSI use, above 30 Hz frame rate, the typical accuracy will be ±2.5°C (±4.5°F), or 2.5% of reading @ 25°C (77°F).

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes and circles) with max./min./average
Profile	1 line profile with max./min. temperature
Automatic hot/cold detection	Auto hot or cold spotmeter markers within the area and profile
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets	The user can select and combine measurements from any number of spots/boxes/circles/profiles/delta
Difference temperature	Delta temperature between the measurement functions and the reference temperature
Reference temperature	Manually set using the difference temperature
Atmospheric transmission correction	Automatic, based on the inputs for distance, atmospheric temperature, and relative humidity



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Measurement analysis	
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from the materials list
Reflected apparent temperature correction	Automatic, based on the input of the reflected temperature
External optics/windows correction	Automatic, based on the inputs of the window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external infrared window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava

Alarm	
Color alarm (isotherm)	<ul style="list-style-type: none"> Above Below Interval Condensation (moisture/humidity/dewpoint) Insulation
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information
Languages	Arabic, Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, simplified Chinese, Swedish, traditional Chinese, Turkish

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital image and measurement data, on a memory card
Storage media	Removable media SD or SDHC card. Class 10 or better recommended
Image storage mode	<ul style="list-style-type: none"> Simultaneous storage of thermal and digital images in the same JPEG file Option to store a digital photo as a separate JPEG file
Time lapse	15 seconds to 24 hours
File formats	<ul style="list-style-type: none"> Standard JPEG, measurement data included CSQ, measurement data included
File formats, visual	Standard JPEG, automatically associated with the corresponding thermal image

Image annotations	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table, select between predefined templates
Image description	Add short note (stored in the JPEG exif tag)



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Website

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Image annotations	
Sketch	<ul style="list-style-type: none"> Draw on the thermal/digital image or add predefined stamps Separate PC software with extensive report generation
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK

Geographic Information System	
GPS	Location data automatically added to every image from the built-in GPS
Compass	Camera direction automatically added to every image

Video recording in camera	
Radiometric IR-video recording	Real-time radiometric recording (RTRR) to the memory card
Non-radiometric IR-video recording	H.264 to the memory card
Visual video recording	H.264 to the memory card

Video streaming	
Radiometric IR-video streaming	Real-time radiometric streaming (RTRS) via USB
Non-radiometric IR-video streaming	<ul style="list-style-type: none"> H.264 video using Wi-Fi H.264 video using USB
Visual video streaming	<ul style="list-style-type: none"> H.264 video using Wi-Fi H.264 video using USB

Digital camera	
Built-in digital camera	5 Mpixel with LED light
Digital camera	Field of view adapts to the infrared lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by a dedicated button
Laser alignment	Position is automatically displayed on the infrared image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB Micro-B, Bluetooth, Wi-Fi, HDMI
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Infrastructure (network) or AP
SD Card	One card slot for removable SD memory cards
Audio	Microphone headset via Bluetooth for the voice annotation of images

USB	
USB	USB Micro-B: data transfer to and from a PC, uncompressed colorized video



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USB	
USB, standard	<ul style="list-style-type: none"> • USB 2.0 High Speed • USB Micro-B connector

Video	
Video out	<ul style="list-style-type: none"> • HDMI 640 × 480 • HDMI 1280 × 720 • DVI 640 × 480 • DVI 800 × 600
Video, connector type	HDMI type C

Radio	
Wi-Fi	<ul style="list-style-type: none"> • Standard: 802.11 b/g/n • Frequency range: 2412–2462 MHz • Max. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz, supports 2.1 and 4.0
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	>2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or two-bay charger
Charging time	2.5 hours to 90% capacity, charging status indicated by LEDs
Charging temperature	0°C to +45°C (+32°F to +113°F), except for the Korean market: +10°C to +45°C (+50°F to +113°F)
External power operation	AC adapter 90–260 V AC, 50/60 Hz or 12 V from a vehicle (cable with a standard plug, optional)
Power management	Automatic power-off functionality, user configurable between 5 minutes, 20 minutes, and no automatic shutdown

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40 to +70°C (–40 to +158°F)
Humidity (operating and storage)	IEC 60068-2-30 / 24 hours, 95% relative humidity, 25–40°C (77–104°F) / 2 cycles
EMC	<ul style="list-style-type: none"> • ETSI EN 301 489-1 (radio) • ETSI EN 301 489-17 • EN 61000-6-2 (Immunity) • EN 61000-6-3 (Emission) • FCC 47 CFR Part 15 Class B (Emission) • ICES-003
Radio spectrum	<ul style="list-style-type: none"> • ETSI EN 300 328 • FCC Part 15.247 • RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-29)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1
Ergonomics	The viewfinder plus the 120° rotating optical block allow you to point the camera in multiple directions while maintaining a comfortable position



FLIR T1040 28°

P/N: 72501-0302

Revision

46149

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2017-11-01 10:15 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Physical data	
Weight	1.9 kg (4.3 lb.)
Camera size, excl. lens (L x W x H)	167.2 mm x 204.5 mm x 188.3 mm (6.6 in. x 8.0 in. x 7.4 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Warranty information	
Warranty	<ul style="list-style-type: none">• 2 years parts and labor coverage on the camera• 5 years coverage on the battery• 10 years coverage on the detector – the most vital part of the whole camera

Shipping information	
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery (2 ea.)• Battery charger• Bluetooth headset• Calibration certificate• FLIR Tools+ license card• Hard transport case• HDMI-HDMI cable• Lens cap• Memory card• Neck strap• Power supply, including multi-plugs• Printed documentation• USB cable, Std A to Micro-B
EAN-13	7332558010396
UPC-12	845188011048
Country of origin	Sweden

Supplies & accessories:

- T199064; IR lens f=36mm (28°) with case
- T199065; Close-up lens 3x (51 micron) with case
- T199066; IR lens f=21.2mm (45°) with case
- T199077; IR lens f=83.4mm (12°) with case
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198497; Large eyecup
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- T198533; USB cable Std A <-> Micro B
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10003; FLIR Tools Mobile (iPad/iPhone Application)
- APP-10004; FLIR Tools (MacOS Application)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

P/N: 72501-0303

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General description	
The FLIR T1040 is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and feature-rich flexibility with superior image quality at an infrared resolution of 1024 × 768 pixels.	
Benefits:	
<ul style="list-style-type: none"> • Flexible and feature rich: A wide variety of measuring and analysis functions make the FLIR T1040 flexible for your every need. Two programmable buttons provide easy access to favorite functions. • Highest performance with the latest technology: The FLIR T1040 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. With its continuous autofocus, the FLIR T1040 is a fully automatic infrared camera. • Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools. 	
Imaging and optical data	
IR resolution	1024 × 768 pixels
MSX resolution	1024 × 768 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<20 mK @ +30°C (+86°F)
Field of view (FOV)	45° × 34°
Minimum IR focus distance	0.2 m (0.66 ft.)
Minimum IR-visual alignment distance	0.5 m (1.64 ft.)
Focal length	21.2 mm (0.83 in.)
Spatial resolution (IFOV)	0.80 mrad
Lens identification	Automatic
F-number	1.1
Image frequency	30 Hz
Focus	One shot or manual
Digital zoom	1–8× continuous
Digital image enhancement	Adaptive digital noise reduction
Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm
Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen



FLIR T1040 45°

P/N: 72501-0303

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Image presentation	
Auto orientation	Automatic landscape or portrait
Viewfinder	Built-in 800 × 480 pixels
Automatic image adjustment	Continuous, histogram based
Automatic image adjustment, type	Standard or histogram based on the image content
Manual image adjustment	Linear based, possible to adjust level/span/max./min.

Image presentation modes	
Image modes	Thermal, thermal MSX, picture in picture, digital camera
Infrared image	Full color infrared image
Visual image	Full color visual image
Multi Spectral Dynamic Imaging (MSX)	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable infrared area on the visual image
Gallery	<ul style="list-style-type: none"> Review thumbnail/full image on the camera Edit measurements/palettes/image modes on the camera

Measurement		
Object temperature range		Accuracy
-40 to +150°C (-40 to +302°F)	-40 to +5°C (-40 to +41°F)	±2°C (±3.6°F)
	+5 to +100°C (+41 to +212°F)	±1°C (±1.8°F)
	+100 to +150°C (+212 to +302°F)	±1%
0 to +650°C (+32 to +1202°F)	0 to +100°C (+32 to +212°F)	±2°C (±3.6°F)
	+100 to + 650°C (+212 to +1202°F)	±2%
+300 to +2000°C (+572 to +3632°F)	+300 to +2000°C (+572 to +3632°F)	±2%

NOTE: For HSI use, above 30 Hz frame rate, the typical accuracy will be ±2.5°C (±4.5°F), or 2.5% of reading @ 25°C (77°F).

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes and circles) with max./min./average
Profile	1 line profile with max./min. temperature
Automatic hot/cold detection	Auto hot or cold spotmeter markers within the area and profile
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets	The user can select and combine measurements from any number of spots/boxes/circles/profiles/delta
Difference temperature	Delta temperature between the measurement functions and the reference temperature
Reference temperature	Manually set using the difference temperature
Atmospheric transmission correction	Automatic, based on the inputs for distance, atmospheric temperature, and relative humidity



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Measurement analysis	
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from the materials list
Reflected apparent temperature correction	Automatic, based on the input of the reflected temperature
External optics/windows correction	Automatic, based on the inputs of the window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external infrared window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava

Alarm	
Color alarm (isotherm)	<ul style="list-style-type: none"> Above Below Interval Condensation (moisture/humidity/dewpoint) Insulation
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information
Languages	Arabic, Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, simplified Chinese, Swedish, traditional Chinese, Turkish

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital image and measurement data, on a memory card
Storage media	Removable media SD or SDHC card. Class 10 or better recommended
Image storage mode	<ul style="list-style-type: none"> Simultaneous storage of thermal and digital images in the same JPEG file Option to store a digital photo as a separate JPEG file
Time lapse	15 seconds to 24 hours
File formats	<ul style="list-style-type: none"> Standard JPEG, measurement data included CSQ, measurement data included
File formats, visual	Standard JPEG, automatically associated with the corresponding thermal image

Image annotations	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table, select between predefined templates
Image description	Add short note (stored in the JPEG exif tag)



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Image annotations	
Sketch	<ul style="list-style-type: none">• Draw on the thermal/digital image or add predefined stamps• Separate PC software with extensive report generation
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK

Geographic Information System	
GPS	Location data automatically added to every image from the built-in GPS
Compass	Camera direction automatically added to every image

Video recording in camera	
Radiometric IR-video recording	Real-time radiometric recording (RTRR) to the memory card
Non-radiometric IR-video recording	H.264 to the memory card
Visual video recording	H.264 to the memory card

Video streaming	
Radiometric IR-video streaming	Real-time radiometric streaming (RTRS) via USB
Non-radiometric IR-video streaming	<ul style="list-style-type: none">• H.264 video using Wi-Fi• H.264 video using USB
Visual video streaming	<ul style="list-style-type: none">• H.264 video using Wi-Fi• H.264 video using USB

Digital camera	
Built-in digital camera	5 Mpixel with LED light
Digital camera	Field of view adapts to the infrared lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by a dedicated button
Laser alignment	Position is automatically displayed on the infrared image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)

Data communication interfaces	
Interfaces	USB Micro-B, Bluetooth, Wi-Fi, HDMI
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Infrastructure (network) or AP
SD Card	One card slot for removable SD memory cards
Audio	Microphone headset via Bluetooth for the voice annotation of images

USB	
USB	USB Micro-B: data transfer to and from a PC, uncompressed colorized video



FLIR T1040 45°

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USB	
USB, standard	<ul style="list-style-type: none">• USB 2.0 High Speed• USB Micro-B connector

Video	
Video out	<ul style="list-style-type: none">• HDMI 640 × 480• HDMI 1280 × 720• DVI 640 × 480• DVI 800 × 600
Video, connector type	HDMI type C

Radio	
Wi-Fi	<ul style="list-style-type: none">• Standard: 802.11 b/g/n• Frequency range: 2412–2462 MHz• Max. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz, supports 2.1 and 4.0
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	>2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or two-bay charger
Charging time	2.5 hours to 90% capacity, charging status indicated by LEDs
Charging temperature	0°C to +45°C (+32°F to +113°F), except for the Korean market: +10°C to +45°C (+50°F to +113°F)
External power operation	AC adapter 90–260 V AC, 50/60 Hz or 12 V from a vehicle (cable with a standard plug, optional)
Power management	Automatic power-off functionality, user configurable between 5 minutes, 20 minutes, and no automatic shutdown

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40 to +70°C (–40 to +158°F)
Humidity (operating and storage)	IEC 60068-2-30 / 24 hours, 95% relative humidity, 25–40°C (77–104°F) / 2 cycles
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-29)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1
Ergonomics	The viewfinder plus the 120° rotating optical block allow you to point the camera in multiple directions while maintaining a comfortable position



FLIR T1040 45°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Physical data	
Weight	2.0 kg (4.3 lb.)
Camera size, excl. lens (L x W x H)	167.2 mm x 204.5 mm x 188.3 mm (6.6 in. x 8.0 in. x 7.4 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Warranty information	
Warranty	<ul style="list-style-type: none">• 2 years parts and labor coverage on the camera• 5 years coverage on the battery• 10 years coverage on the detector – the most vital part of the whole camera

Shipping information	
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery (2 ea.)• Battery charger• Bluetooth headset• Calibration certificate• FLIR Tools+ license card• Hard transport case• HDMI-HDMI cable• Lens cap• Memory card• Neck strap• Power supply, including multi-plugs• Printed documentation• USB cable, Std A to Micro-B
EAN-13	7332558010402
UPC-12	845188011055
Country of origin	Sweden

Supplies & accessories:

- T199064; IR lens f=36mm (28°) with case
- T199066; IR lens f=21.2mm (45°) with case
- T199077; IR lens f=83.4mm (12°) with case
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198497; Large eyecup
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- T198533; USB cable Std A <-> Micro B
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10003; FLIR Tools Mobile (iPad/iPhone Application)
- APP-10004; FLIR Tools (MacOS Application)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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46151

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Website

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Customer support

<http://support.flir.com>



General description	
<p>The FLIR T1050sc is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and feature-rich flexibility with superior image quality at an infrared resolution of 1024 × 768 pixels. High accuracy and sensitivity together with radiometric recording and streaming options make the FLIR T1050sc well suited for advanced research and development.</p>	
<p>Benefits:</p> <ul style="list-style-type: none"> • Tailor made for research and development: The FLIR T1050sc has high accuracy and high sensitivity, to accurately measure the smallest temperature differences. With real-time radiometric recording, it is possible to capture fast events on the camera's SD card for further analysis by the supplied analysis software. • Flexible and feature rich: A wide variety of measuring and analysis functions make the FLIR T1050sc flexible for your every need. Two programmable buttons provide easy access to favorite functions. • Highest performance with the latest technology: The FLIR T1050sc is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. With its continuous autofocus, the FLIR T1050sc is a fully automatic infrared camera. • Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools. 	
Imaging and optical data	
IR resolution	1024 × 768 pixels
MSX resolution	1024 × 768 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<20 mK @ +30°C (+86°F)
Field of view (FOV)	12° × 9°
Minimum IR focus distance	1.3 m (4.26 ft.)
Minimum IR–visual alignment distance	1.3 m (4.26 ft.)
Focal length	83.4 mm (3.28 in.)
Spatial resolution (IFOV)	0.20 mrad
Lens identification	Automatic
F-number	1.2
Image frequency	30 Hz
Focus	One shot or manual
Digital zoom	1–8× continuous
Digital image enhancement	Adaptive digital noise reduction
Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm
Time constant	< 10 ms



FLIR T1050sc 12°

P/N: 72501-0401

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Viewfinder	Built-in 800 × 480 pixels
Automatic image adjustment	Continuous, histogram based
Automatic image adjustment, type	Standard or histogram based on the image content
Manual image adjustment	Linear based, possible to adjust level/span/max./min.

Image presentation modes	
Image modes	Thermal, thermal MSX, picture in picture, digital camera
Infrared image	Full color infrared image
Visual image	Full color visual image
Multi Spectral Dynamic Imaging (MSX)	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable infrared area on the visual image
Gallery	<ul style="list-style-type: none"> Review thumbnail/full image on the camera Edit measurements/palettes/image modes on the camera

Measurement		
Object temperature range		Accuracy
-40 to +150°C (-40 to +302°F)	-40 to +5°C (-40 to +41°F)	±2°C (±3.6°F)
	+5 to +100°C (+41 to +212°F)	±1°C (±1.8°F)
	+100 to +150°C (+212 to +302°F)	±1%
0 to +650°C (+32 to +1202°F)	0 to +100°C (+32 to +212°F)	±2°C (±3.6°F)
	+100 to +650°C (+212 to +1202°F)	±2%
+300 to +2000°C (+572 to +3632°F)	+300 to +2000°C (+572 to +3632°F)	±2%

NOTE: For HSI use, above 30 Hz frame rate, the typical accuracy will be ±2.5°C (±4.5°F), or 2.5% of reading @ 25°C (77°F).

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes and circles) with max./min./average
Profile	1 line profile with max./min. temperature
Automatic hot/cold detection	Auto hot or cold spotmeter markers within the area and profile
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets	The user can select and combine measurements from any number of spots/boxes/circles/profiles/delta
Difference temperature	Delta temperature between the measurement functions and the reference temperature



FLIR T1050sc 12°

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Website

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Customer support

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Measurement analysis	
Reference temperature	Manually set using the difference temperature
Atmospheric transmission correction	Automatic, based on the inputs for distance, atmospheric temperature, and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from the materials list
Reflected apparent temperature correction	Automatic, based on the input of the reflected temperature
External optics/windows correction	Automatic, based on the inputs of the window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external infrared window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava

Alarm	
Color alarm (isotherm)	<ul style="list-style-type: none"> Above Below Interval Condensation (moisture/humidity/dewpoint) Insulation
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information
Languages	Arabic, Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, simplified Chinese, Swedish, traditional Chinese, Turkish

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital image and measurement data, on a memory card
Storage media	Removable media SD or SDHC card. Class 10 or better recommended
Image storage mode	<ul style="list-style-type: none"> Simultaneous storage of thermal and digital images in the same JPEG file Option to store a digital photo as a separate JPEG file
Time lapse	15 seconds to 24 hours
File formats	<ul style="list-style-type: none"> Standard JPEG, measurement data included CSQ, measurement data included
File formats, visual	Standard JPEG, automatically associated with the corresponding thermal image

Image annotations	
Voice	60 seconds (via Bluetooth) stored with the image



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Image annotations	
Text	Add table, select between predefined templates
Image description	Add short note (stored in the JPEG exif tag)
Sketch	<ul style="list-style-type: none"> Draw on the thermal/digital image or add predefined stamps Separate PC software with extensive report generation
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK

Geographic Information System	
GPS	Location data automatically added to every image from the built-in GPS
Compass	Camera direction automatically added to every image

Video recording in camera	
Radiometric IR-video recording	Real-time radiometric recording (RTRR) to the memory card
Non-radiometric IR-video recording	H.264 to the memory card
Visual video recording	H.264 to the memory card

Video streaming	
Radiometric IR-video streaming	<ul style="list-style-type: none"> Full dynamic un-compressed 120 Hz 16-bit full frame (2 Gbit) to a PC using an HSI box Real-time radiometric streaming 30 Hz (RTRS) via USB
Non-radiometric IR-video streaming	<ul style="list-style-type: none"> H.264 video using Wi-Fi H.264 video using USB
Visual video streaming	<ul style="list-style-type: none"> H.264 video using Wi-Fi H.264 video using USB
Windowing	<ul style="list-style-type: none"> 30 Hz: 1024 × 768 (full image height) Based on 30 Hz: 120 Hz windowing 1024 × 192 (¼ of full image height), for range -40 to +150°C (-40 to +302°F) 120 Hz: 1024 × 768 (full image height) Based on 120 Hz: 240 Hz windowing 1024 × 384 (½ of full image height), for range 0 to +650°C (+32 to +1202°F) and range +300 to +2000°C (+572 to +3632°F)

Digital camera	
Built-in digital camera	5 Mpixel with LED light
Digital camera	Field of view adapts to the infrared lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by a dedicated button
Laser alignment	Position is automatically displayed on the infrared image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)



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Data communication interfaces	
Interfaces	USB Micro-B, Bluetooth, Wi-Fi, HDMI, USB3 Vision via HSI box
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Infrastructure (network) or AP
SD Card	One card slot for removable SD memory cards
Audio	Microphone headset via Bluetooth for the voice annotation of images

USB	
USB	USB Micro-B: data transfer to and from a PC, uncompressed colorized video
USB, standard	<ul style="list-style-type: none">• USB 2.0 High Speed• USB Micro-B connector• USB3 Vision via HSI box

Video	
Video out	<ul style="list-style-type: none">• HDMI 640 × 480• HDMI 1280 × 720• DVI 640 × 480• DVI 800 × 600
Video, connector type	HDMI type C

Radio	
Wi-Fi	<ul style="list-style-type: none">• Standard: 802.11 b/g/n• Frequency range: 2412–2462 MHz• Max. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz, supports 2.1 and 4.0
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	>2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or two-bay charger
Charging time	2.5 hours to 90% capacity, charging status indicated by LEDs
Charging temperature	0°C to +45°C (+32°F to +113°F), except for the Korean market: +10°C to +45°C (+50°F to +113°F)
External power operation	AC adapter 90–260 V AC, 50/60 Hz or 12 V from a vehicle (cable with a standard plug, optional)
Power management	Automatic power-off functionality, user configurable between 5 minutes, 20 minutes, and no automatic shutdown

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40 to +70°C (–40 to +158°F)
Humidity (operating and storage)	IEC 60068-2-30 / 24 hours, 95% relative humidity, 25–40°C (77–104°F) / 2 cycles



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Environmental data	
EMC	<ul style="list-style-type: none">• ETSI EN 301 489-1 (radio)• ETSI EN 301 489-17• EN 61000-6-2 (Immunity)• EN 61000-6-3 (Emission)• FCC 47 CFR Part 15 Class B (Emission)• ICES-003
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• FCC Part 15.247• RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-29)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1
Ergonomics	The viewfinder plus the 120° rotating optical block allow you to point the camera in multiple directions while maintaining a comfortable position

Physical data	
Weight	2.1 kg (4.6 lb.)
Camera size, excl. lens (L x W x H)	167.2 mm x 204.5 mm x 188.3 mm (6.6 in. x 8.0 in. x 7.4 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Warranty information	
Warranty	<ul style="list-style-type: none">• 2 years parts and labor coverage on the camera• 5 years coverage on the battery• 10 years coverage on the detector – the most vital part of the whole camera

Shipping information	
List of contents	<ul style="list-style-type: none">• Infrared camera with lens• Battery (2 ea.)• Battery charger• Bluetooth headset• Calibration certificate• FLIR Tools+ license card• FLIR T10xx SC kit (in separate hard transport case):<ul style="list-style-type: none">• High-speed interface• USB cable (USB 3), 3 m (10 ft.)• Digital I/O connector• FLIR ResearchIR Max license card• Printed documentation• Hard transport case• HDMI-HDMI cable• Lens cap• Memory card• Neck strap• Power supply, including multi-plugs• Printed documentation• USB cable, Std A to Micro-B
EAN-13	7332558010419
UPC-12	845188011062
Country of origin	Sweden

Supplies & accessories:

- T199064; IR lens f=36mm (28°) with case
- T199066; IR lens f=21.2mm (45°) with case
- T199077; IR lens f=83.4mm (12°) with case
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh



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- T911650ACC; Memory card SD Card 8 GB
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- 72500-0002; FLIR T10xx SC kit
- T198497; Large eyecup
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- T198533; USB cable Std A <-> Micro B
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10003; FLIR Tools Mobile (iPad/iPhone Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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General description	
<p>The FLIR T1050sc is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and feature-rich flexibility with superior image quality at an infrared resolution of 1024 × 768 pixels. High accuracy and sensitivity together with radiometric recording and streaming options make the FLIR T1050sc well suited for advanced research and development.</p>	
<p>Benefits:</p> <ul style="list-style-type: none"> • Tailor made for research and development: The FLIR T1050sc has high accuracy and high sensitivity, to accurately measure the smallest temperature differences. With real-time radiometric recording, it is possible to capture fast events on the camera's SD card for further analysis by the supplied analysis software. • Flexible and feature rich: A wide variety of measuring and analysis functions make the FLIR T1050sc flexible for your every need. Two programmable buttons provide easy access to favorite functions. • Highest performance with the latest technology: The FLIR T1050sc is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. With its continuous autofocus, the FLIR T1050sc is a fully automatic infrared camera. • Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools. 	
Imaging and optical data	
IR resolution	1024 × 768 pixels
MSX resolution	1024 × 768 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<20 mK @ +30°C (+86°F)
Field of view (FOV)	28° × 21°
Minimum IR focus distance	0.4 m (1.32 ft.)
Minimum IR–visual alignment distance	0.4 m (1.32 ft.)
Focal length	36 mm (1.42 in.)
Spatial resolution (IFOV)	0.47 mrad
Lens identification	Automatic
F-number	1.15
Image frequency	30 Hz
Focus	One shot or manual
Digital zoom	1–8× continuous
Digital image enhancement	Adaptive digital noise reduction
Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm
Time constant	< 10 ms



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Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Viewfinder	Built-in 800 × 480 pixels
Automatic image adjustment	Continuous, histogram based
Automatic image adjustment, type	Standard or histogram based on the image content
Manual image adjustment	Linear based, possible to adjust level/span/max./min.

Image presentation modes	
Image modes	Thermal, thermal MSX, picture in picture, digital camera
Infrared image	Full color infrared image
Visual image	Full color visual image
Multi Spectral Dynamic Imaging (MSX)	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable infrared area on the visual image
Gallery	<ul style="list-style-type: none"> Review thumbnail/full image on the camera Edit measurements/palettes/image modes on the camera

Measurement		
Object temperature range		Accuracy
-40 to +150°C (-40 to +302°F)	-40 to +5°C (-40 to +41°F)	±2°C (±3.6°F)
	+5 to +100°C (+41 to +212°F)	±1°C (±1.8°F)
	+100 to +150°C (+212 to +302°F)	±1%
0 to +650°C (+32 to +1202°F)	0 to +100°C (+32 to +212°F)	±2°C (±3.6°F)
	+100 to +650°C (+212 to +1202°F)	±2%
+300 to +2000°C (+572 to +3632°F)	+300 to +2000°C (+572 to +3632°F)	±2%

NOTE: For HSI use, above 30 Hz frame rate, the typical accuracy will be ±2.5°C (±4.5°F), or 2.5% of reading @ 25°C (77°F).

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes and circles) with max./min./average
Profile	1 line profile with max./min. temperature
Automatic hot/cold detection	Auto hot or cold spotmeter markers within the area and profile
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets	The user can select and combine measurements from any number of spots/boxes/circles/profiles/delta
Difference temperature	Delta temperature between the measurement functions and the reference temperature



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Measurement analysis	
Reference temperature	Manually set using the difference temperature
Atmospheric transmission correction	Automatic, based on the inputs for distance, atmospheric temperature, and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from the materials list
Reflected apparent temperature correction	Automatic, based on the input of the reflected temperature
External optics/windows correction	Automatic, based on the inputs of the window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external infrared window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava

Alarm	
Color alarm (isotherm)	<ul style="list-style-type: none"> Above Below Interval Condensation (moisture/humidity/dewpoint) Insulation
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information
Languages	Arabic, Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, simplified Chinese, Swedish, traditional Chinese, Turkish

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital image and measurement data, on a memory card
Storage media	Removable media SD or SDHC card. Class 10 or better recommended
Image storage mode	<ul style="list-style-type: none"> Simultaneous storage of thermal and digital images in the same JPEG file Option to store a digital photo as a separate JPEG file
Time lapse	15 seconds to 24 hours
File formats	<ul style="list-style-type: none"> Standard JPEG, measurement data included CSQ, measurement data included
File formats, visual	Standard JPEG, automatically associated with the corresponding thermal image

Image annotations	
Voice	60 seconds (via Bluetooth) stored with the image



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Image annotations	
Text	Add table, select between predefined templates
Image description	Add short note (stored in the JPEG exif tag)
Sketch	<ul style="list-style-type: none">Draw on the thermal/digital image or add predefined stampsSeparate PC software with extensive report generation
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK

Geographic Information System	
GPS	Location data automatically added to every image from the built-in GPS
Compass	Camera direction automatically added to every image

Video recording in camera	
Radiometric IR-video recording	Real-time radiometric recording (RTRR) to the memory card
Non-radiometric IR-video recording	H.264 to the memory card
Visual video recording	H.264 to the memory card

Video streaming	
Radiometric IR-video streaming	<ul style="list-style-type: none">Full dynamic un-compressed 120 Hz 16-bit full frame (2 Gbit) to a PC using an HSI boxReal-time radiometric streaming 30 Hz (RTRS) via USB
Non-radiometric IR-video streaming	<ul style="list-style-type: none">H.264 video using Wi-FiH.264 video using USB
Visual video streaming	<ul style="list-style-type: none">H.264 video using Wi-FiH.264 video using USB
Windowing	<ul style="list-style-type: none">30 Hz: 1024 × 768 (full image height)Based on 30 Hz: 120 Hz windowing 1024 × 192 (¼ of full image height), for range -40 to +150°C (-40 to +302°F)120 Hz: 1024 × 768 (full image height)Based on 120 Hz: 240 Hz windowing 1024 × 384 (½ of full image height), for range 0 to +650°C (+32 to +1202°F) and range +300 to +2000°C (+572 to +3632°F)

Digital camera	
Built-in digital camera	5 Mpixel with LED light
Digital camera	Field of view adapts to the infrared lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by a dedicated button
Laser alignment	Position is automatically displayed on the infrared image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)



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Data communication interfaces	
Interfaces	USB Micro-B, Bluetooth, Wi-Fi, HDMI, USB3 Vision via HSI box
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Infrastructure (network) or AP
SD Card	One card slot for removable SD memory cards
Audio	Microphone headset via Bluetooth for the voice annotation of images

USB	
USB	USB Micro-B: data transfer to and from a PC, uncompressed colorized video
USB, standard	<ul style="list-style-type: none">• USB 2.0 High Speed• USB Micro-B connector• USB3 Vision via HSI box

Video	
Video out	<ul style="list-style-type: none">• HDMI 640 × 480• HDMI 1280 × 720• DVI 640 × 480• DVI 800 × 600
Video, connector type	HDMI type C

Radio	
Wi-Fi	<ul style="list-style-type: none">• Standard: 802.11 b/g/n• Frequency range: 2412–2462 MHz• Max. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz, supports 2.1 and 4.0
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	>2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or two-bay charger
Charging time	2.5 hours to 90% capacity, charging status indicated by LEDs
Charging temperature	0°C to +45°C (+32°F to +113°F), except for the Korean market: +10°C to +45°C (+50°F to +113°F)
External power operation	AC adapter 90–260 V AC, 50/60 Hz or 12 V from a vehicle (cable with a standard plug, optional)
Power management	Automatic power-off functionality, user configurable between 5 minutes, 20 minutes, and no automatic shutdown

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40 to +70°C (–40 to +158°F)
Humidity (operating and storage)	IEC 60068-2-30 / 24 hours, 95% relative humidity, 25–40°C (77–104°F) / 2 cycles



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Environmental data	
EMC	<ul style="list-style-type: none">ETSI EN 301 489-1 (radio)ETSI EN 301 489-17EN 61000-6-2 (Immunity)EN 61000-6-3 (Emission)FCC 47 CFR Part 15 Class B (Emission)ICES-003
Radio spectrum	<ul style="list-style-type: none">ETSI EN 300 328FCC Part 15.247RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-29)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1
Ergonomics	The viewfinder plus the 120° rotating optical block allow you to point the camera in multiple directions while maintaining a comfortable position

Physical data	
Weight	1.9 kg (4.3 lb.)
Camera size, excl. lens (L x W x H)	167.2 mm x 204.5 mm x 188.3 mm (6.6 in. x 8.0 in. x 7.4 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Warranty information	
Warranty	<ul style="list-style-type: none">2 years parts and labor coverage on the camera5 years coverage on the battery10 years coverage on the detector – the most vital part of the whole camera

Shipping information	
List of contents	<ul style="list-style-type: none">Infrared camera with lensBattery (2 ea.)Battery chargerBluetooth headsetCalibration certificateFLIR Tools+ license cardFLIR T10xx SC kit (in separate hard transport case):<ul style="list-style-type: none">High-speed interfaceUSB cable (USB 3), 3 m (10 ft.)Digital I/O connectorFLIR ResearchIR Max license cardPrinted documentationHard transport caseHDMI-HDMI cableLens capMemory cardNeck strapPower supply, including multi-plugsPrinted documentationUSB cable, Std A to Micro-B
EAN-13	7332558010426
UPC-12	845188011079
Country of origin	Sweden

Supplies & accessories:

- T199064; IR lens f=36mm (28°) with case
- T199065; Close-up lens 3x (51 micron) with case
- T199066; IR lens f=21.2mm (45°) with case
- T199077; IR lens f=83.4mm (12°) with case
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx



FLIR T1050sc 28°

P/N: 72501-0402

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- 72500-0002; FLIR T10xx SC kit
- T198497; Large eyecup
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- T198533; USB cable Std A <-> Micro B
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10003; FLIR Tools Mobile (iPad/iPhone Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

P/N: 72501-0403

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General description	
<p>The FLIR T1050sc is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and feature-rich flexibility with superior image quality at an infrared resolution of 1024 × 768 pixels. High accuracy and sensitivity together with radiometric recording and streaming options make the FLIR T1050sc well suited for advanced research and development.</p>	
<p>Benefits:</p> <ul style="list-style-type: none"> • Tailor made for research and development: The FLIR T1050sc has high accuracy and high sensitivity, to accurately measure the smallest temperature differences. With real-time radiometric recording, it is possible to capture fast events on the camera's SD card for further analysis by the supplied analysis software. • Flexible and feature rich: A wide variety of measuring and analysis functions make the FLIR T1050sc flexible for your every need. Two programmable buttons provide easy access to favorite functions. • Highest performance with the latest technology: The FLIR T1050sc is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. With its continuous autofocus, the FLIR T1050sc is a fully automatic infrared camera. • Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools. 	
Imaging and optical data	
IR resolution	1024 × 768 pixels
MSX resolution	1024 × 768 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<20 mK @ +30°C (+86°F)
Field of view (FOV)	45° × 34°
Minimum IR focus distance	0.2 m (0.66 ft.)
Minimum IR–visual alignment distance	0.5 m (1.64 ft.)
Focal length	21.2 mm (0.83 in.)
Spatial resolution (IFOV)	0.80 mrad
Lens identification	Automatic
F-number	1.1
Image frequency	30 Hz
Focus	One shot or manual
Digital zoom	1–8× continuous
Digital image enhancement	Adaptive digital noise reduction
Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm
Time constant	< 10 ms



FLIR T1050sc 45°

P/N: 72501-0403

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Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Display type	Capacitive touch screen
Auto orientation	Automatic landscape or portrait
Viewfinder	Built-in 800 × 480 pixels
Automatic image adjustment	Continuous, histogram based
Automatic image adjustment, type	Standard or histogram based on the image content
Manual image adjustment	Linear based, possible to adjust level/span/max./min.

Image presentation modes	
Image modes	Thermal, thermal MSX, picture in picture, digital camera
Infrared image	Full color infrared image
Visual image	Full color visual image
Multi Spectral Dynamic Imaging (MSX)	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable infrared area on the visual image
Gallery	<ul style="list-style-type: none"> Review thumbnail/full image on the camera Edit measurements/palettes/image modes on the camera

Measurement		
Object temperature range		Accuracy
-40 to +150°C (-40 to +302°F)	-40 to +5°C (-40 to +41°F)	±2°C (±3.6°F)
	+5 to +100°C (+41 to +212°F)	±1°C (±1.8°F)
	+100 to +150°C (+212 to +302°F)	±1%
0 to +650°C (+32 to +1202°F)	0 to +100°C (+32 to +212°F)	±2°C (±3.6°F)
	+100 to +650°C (+212 to +1202°F)	±2%
+300 to +2000°C (+572 to +3632°F)	+300 to +2000°C (+572 to +3632°F)	±2%

NOTE: For HSI use, above 30 Hz frame rate, the typical accuracy will be ±2.5°C (±4.5°F), or 2.5% of reading @ 25°C (77°F).

Measurement analysis	
Spotmeter	10
Area	5 + 5 areas (boxes and circles) with max./min./average
Profile	1 line profile with max./min. temperature
Automatic hot/cold detection	Auto hot or cold spotmeter markers within the area and profile
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets	The user can select and combine measurements from any number of spots/boxes/circles/profiles/delta
Difference temperature	Delta temperature between the measurement functions and the reference temperature



FLIR T1050sc 45°

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Measurement analysis	
Reference temperature	Manually set using the difference temperature
Atmospheric transmission correction	Automatic, based on the inputs for distance, atmospheric temperature, and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from the materials list
Reflected apparent temperature correction	Automatic, based on the input of the reflected temperature
External optics/windows correction	Automatic, based on the inputs of the window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external infrared window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava

Alarm	
Color alarm (isotherm)	<ul style="list-style-type: none">• Above• Below• Interval• Condensation (moisture/humidity/dewpoint)• Insulation
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function

Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information
Languages	Arabic, Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, simplified Chinese, Swedish, traditional Chinese, Turkish

Service functions	
Camera software update	Use PC software FLIR Tools

Storage of images	
Image storage	Standard JPEG, including digital image and measurement data, on a memory card
Storage media	Removable media SD or SDHC card. Class 10 or better recommended
Image storage mode	<ul style="list-style-type: none">• Simultaneous storage of thermal and digital images in the same JPEG file• Option to store a digital photo as a separate JPEG file
Time lapse	15 seconds to 24 hours
File formats	<ul style="list-style-type: none">• Standard JPEG, measurement data included• CSQ, measurement data included
File formats, visual	Standard JPEG, automatically associated with the corresponding thermal image

Image annotations	
Voice	60 seconds (via Bluetooth) stored with the image



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Image annotations	
Text	Add table, select between predefined templates
Image description	Add short note (stored in the JPEG exif tag)
Sketch	<ul style="list-style-type: none">Draw on the thermal/digital image or add predefined stampsSeparate PC software with extensive report generation
METERLiNK	Wireless connection (Bluetooth) to: FLIR meters with METERLiNK

Geographic Information System	
GPS	Location data automatically added to every image from the built-in GPS
Compass	Camera direction automatically added to every image

Video recording in camera	
Radiometric IR-video recording	Real-time radiometric recording (RTRR) to the memory card
Non-radiometric IR-video recording	H.264 to the memory card
Visual video recording	H.264 to the memory card

Video streaming	
Radiometric IR-video streaming	<ul style="list-style-type: none">Full dynamic un-compressed 120 Hz 16-bit full frame (2 Gbit) to a PC using an HSI boxReal-time radiometric streaming 30 Hz (RTRS) via USB
Non-radiometric IR-video streaming	<ul style="list-style-type: none">H.264 video using Wi-FiH.264 video using USB
Visual video streaming	<ul style="list-style-type: none">H.264 video using Wi-FiH.264 video using USB
Windowing	<ul style="list-style-type: none">30 Hz: 1024 × 768 (full image height)Based on 30 Hz: 120 Hz windowing 1024 × 192 (¼ of full image height), for range -40 to +150°C (-40 to +302°F)120 Hz: 1024 × 768 (full image height)Based on 120 Hz: 240 Hz windowing 1024 × 384 (½ of full image height), for range 0 to +650°C (+32 to +1202°F) and range +300 to +2000°C (+572 to +3632°F)

Digital camera	
Built-in digital camera	5 Mpixel with LED light
Digital camera	Field of view adapts to the infrared lens
Video lamp	Built-in LED light

Laser pointer	
Laser	Activated by a dedicated button
Laser alignment	Position is automatically displayed on the infrared image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)



FLIR T1050sc 45°

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Data communication interfaces	
Interfaces	USB Micro-B, Bluetooth, Wi-Fi, HDMI, USB3 Vision via HSI box
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Infrastructure (network) or AP
SD Card	One card slot for removable SD memory cards
Audio	Microphone headset via Bluetooth for the voice annotation of images

USB	
USB	USB Micro-B: data transfer to and from a PC, uncompressed colorized video
USB, standard	<ul style="list-style-type: none">• USB 2.0 High Speed• USB Micro-B connector• USB3 Vision via HSI box

Video	
Video out	<ul style="list-style-type: none">• HDMI 640 × 480• HDMI 1280 × 720• DVI 640 × 480• DVI 800 × 600
Video, connector type	HDMI type C

Radio	
Wi-Fi	<ul style="list-style-type: none">• Standard: 802.11 b/g/n• Frequency range: 2412–2462 MHz• Max. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz, supports 2.1 and 4.0
Antenna	Internal

Power system	
Battery type	Rechargeable Li ion battery
Battery operating time	>2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or two-bay charger
Charging time	2.5 hours to 90% capacity, charging status indicated by LEDs
Charging temperature	0°C to +45°C (+32°F to +113°F), except for the Korean market: +10°C to +45°C (+50°F to +113°F)
External power operation	AC adapter 90–260 V AC, 50/60 Hz or 12 V from a vehicle (cable with a standard plug, optional)
Power management	Automatic power-off functionality, user configurable between 5 minutes, 20 minutes, and no automatic shutdown

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)
Storage temperature range	–40 to +70°C (–40 to +158°F)
Humidity (operating and storage)	IEC 60068-2-30 / 24 hours, 95% relative humidity, 25–40°C (77–104°F) / 2 cycles



FLIR T1050sc 45°

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Environmental data	
EMC	<ul style="list-style-type: none">ETSI EN 301 489-1 (radio)ETSI EN 301 489-17EN 61000-6-2 (Immunity)EN 61000-6-3 (Emission)FCC 47 CFR Part 15 Class B (Emission)ICES-003
Radio spectrum	<ul style="list-style-type: none">ETSI EN 300 328FCC Part 15.247RSS-247 Issue 2
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-29)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1
Ergonomics	The viewfinder plus the 120° rotating optical block allow you to point the camera in multiple directions while maintaining a comfortable position

Physical data	
Weight	2.0 kg (4.3 lb.)
Camera size, excl. lens (L x W x H)	167.2 mm x 204.5 mm x 188.3 mm (6.6 in. x 8.0 in. x 7.4 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Warranty information	
Warranty	<ul style="list-style-type: none">2 years parts and labor coverage on the camera5 years coverage on the battery10 years coverage on the detector – the most vital part of the whole camera

Shipping information	
List of contents	<ul style="list-style-type: none">Infrared camera with lensBattery (2 ea.)Battery chargerBluetooth headsetCalibration certificateFLIR Tools+ license cardFLIR T10xx SC kit (in separate hard transport case):<ul style="list-style-type: none">High-speed interfaceUSB cable (USB 3), 3 m (10 ft.)Digital I/O connectorFLIR ResearchIR Max license cardPrinted documentationHard transport caseHDMI-HDMI cableLens capMemory cardNeck strapPower supply, including multi-plugsPrinted documentationUSB cable, Std A to Micro-B
EAN-13	7332558010433
UPC-12	845188011086
Country of origin	Sweden

Supplies & accessories:

- T199064; IR lens f=36mm (28°) with case
- T199066; IR lens f=21.2mm (45°) with case
- T199077; IR lens f=83.4mm (12°) with case
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh



FLIR T1050sc 45°

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Customer support

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- T911650ACC; Memory card SD Card 8 GB
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- 72500-0002; FLIR T10xx SC kit
- T198497; Large eyecup
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- T198533; USB cable Std A <-> Micro B
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
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- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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FLIR TGxxx series

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Website

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Customer support

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General description	
<p>FLIR's new TG130 imaging infrared (IR) thermometer bridges the gap between single-spot IR thermometers and FLIR's legendary thermal cameras. Equipped with FLIR's exclusive Lepton micro thermal camera, the FLIR TG130 shows you where potential problems are brewing and where to aim your spot.</p> <p>The FLIR TG130 lets you see heat patterns, reliably measure temperature. Its menu uses intuitive icons, making it simple to operate.</p>	
Key features	
<ul style="list-style-type: none"> • See the heat and speed up troubleshooting. • Know where to measure temperature. • Grab and go simplicity—no special training required. • Pocket portable to fit a crowded tool bag. • Rugged and reliable. 	
Imaging and optical data	
IR resolution	80 × 60 pixels
Display resolution	160 × 128 pixels
Thermal sensitivity/NETD	< 150 mK
Field of view (FOV)	55° × 43°
Minimum focus distance	0.1 m (4 in.)
Distance to spot ratio	15:1
Image frequency	9 Hz
Focus	Focus free
Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	8–14 μm
Image presentation	
Display	1.8 in. TFT LCD
Measurement	
Object temperature range	–10 to +150°C (+14 to +302°F)
Accuracy	±4°C (±7.2°F)



FLIR TG130 (Global)

P/N: 74401-0104

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Measurement analysis	
Center spot	Yes
Color palettes	Iron

Set-up	
Temperature unit	Selectable: °C or °F
Emissivity	Fixed at 0.95

Power system	
Battery type	3 × AAA (LR03)
Battery operating time	4 hours of continuous scanning
Power management	Fixed; 5 min.

Environmental data	
Operating temperature range	-10 to +45°C (+14 to 113°F)
Storage temperature range	-40 to +70°C (-40 to 158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 hours, 95% relative humidity, 25–40°C (77–104°F)/2 cycles
EMC	<ul style="list-style-type: none">• WEEE 2012/19/EC• RoHs 2011/65/EC• C-Tick• EN 61000-6-3• EN 61000-6-2• FCC 47 CFR Part 15 Class B
Magnetic fields	EN 61000-4-8
Encapsulation	IP 40 (IEC 60529)
Shock	25 g (IEC 60068-2-29)
Vibration	2 g (IEC 60068-2-6)
Drop	Designed for 2 m (6.6 ft.)
Safety	CE/PSE/EN/UL/CSA 60950-1

Physical data	
Camera weight, incl. battery	0.17 kg (0.38 lb.)
Camera size (L × W × H)	169 mm × 45 mm × 48 mm (6.6 in. × 1.8 in. × 1.9 in.)
Color	Black
Material	PC-ABS, TPU

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Imaging IR thermometer• Printed documentation• Lanyard• 3 × AAA (LR03) batteries
Packaging, weight	0.33 kg (0.72 lb.)
Packaging, size	167 mm × 271 mm × 70 mm (6.6 in × 10.7 in × 2.8 in.)
EAN-13	7332558010884
UPC-12	845188011635
Country of origin	China

P/N: 74402-0207

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Website

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Customer support

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General description	
<p>FLIR's new TG135 imaging infrared (IR) thermometer bridges the gap between single-spot IR thermometers and FLIR's legendary thermal cameras. Equipped with FLIR's exclusive Lepton micro thermal camera, the FLIR TG135 shows you where potential problems are brewing and where to aim your spot.</p> <p>The FLIR TG135 lets you see heat patterns, reliably measure temperature. Its menu uses intuitive icons, making it simple to operate.</p>	
Key features	
<ul style="list-style-type: none"> • See the heat and speed up troubleshooting. • Know where to measure temperature. • Grab and go simplicity—no special training required. • Pocket portable to fit a crowded tool bag. • Rugged and reliable. 	
Imaging and optical data	
IR resolution	80 × 60 pixels
Display resolution	160 × 128 pixels
Thermal sensitivity/NETD	< 150 mK
Field of view (FOV)	55° × 43°
Minimum focus distance	0.1 m (4 in.)
Distance to spot ratio	15:1
Image frequency	9 Hz
Focus	Focus free
Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	8–14 μm
Image presentation	
Display	1.8 in. TFT LCD
Measurement	
Object temperature range	–10 to +150°C (+14 to +302°F)
Accuracy	±4°C (±7.2°F)



FLIR TG135 (Global)

P/N: 74402-0207

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Measurement analysis	
Center spot	Yes
Color palettes	<ul style="list-style-type: none">Hot-red (hot marker)Cold-blue (cold marker)Iron

Set-up	
Temperature unit	Selectable: °C or °F
Emissivity correction	User set levels with adjustment between 0.1 and 0.99

Storage of images	
Memory type	Internal memory only
Image storage capacity	25 images on camera

Power system	
Battery type	3 × AAA (LR03)
Battery operating time	4 hours of continuous scanning
Power management	Adjustable: 5 minutes, 10 minutes, infinity

Environmental data	
Operating temperature range	-10 to +45°C (+14 to 113°F)
Storage temperature range	-40 to +70°C (-40 to 158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 hours, 95% relative humidity, 25-40°C (77-104°F)/2 cycles
EMC	<ul style="list-style-type: none">WEEE 2012/19/ECRoHs 2011/65/ECC-TickEN 61000-6-3EN 61000-6-2FCC 47 CFR Part 15 Class B
Magnetic fields	EN 61000-4-8
Encapsulation	IP 40 (IEC 60529)
Shock	25 g (IEC 60068-2-29)
Vibration	2 g (IEC 60068-2-6)
Drop	Designed for 2 m (6.6 ft.)
Safety	CE/PSE/EN/UL/CSA 60950-1

Physical data	
Camera weight, incl. battery	0.17 kg (0.38 lb.)
Camera size (L × W × H)	169 mm × 45 mm × 48 mm (6.6 in. × 1.8 in. × 1.9 in.)
Color	Black
Material	PC-ABS, TPU

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">Imaging IR thermometerPrinted documentationLanyard3 × AAA (LR03) batteries



FLIR TG135 (Global)

P/N: 74402-0207

Revision

41856

Last modified

2017-04-03 15:53 UTC+1

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Website

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Customer support

<http://support.flir.com>

Shipping information	
Packaging, weight	0.33 kg (0.72 lb.)
Packaging, size	167 mm × 271 mm × 70 mm (6.6 in × 10.7 in × 2.8 in.)
EAN-13	7332558010891
UPC-12	845188011642
Country of origin	China

P/N: TG165

Revision

28060

Last modified

2015-08-24 14:07 UTC+1

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Website

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Customer support

<http://support.flir.com>



Part number	TG165
Part name	Imaging IR Thermometer
Description	<p>FLIR's new TG165 imaging infrared (IR) thermometer bridges the gap between single-spot IR thermometers and FLIR's legendary thermal cameras. Equipped with FLIR's exclusive Lepton micro thermal camera, the FLIR TG165 shows you where potential problems are brewing and where to aim your spot.</p> <p>The FLIR TG165 lets you see heat patterns, reliably measure temperature, and store images and data. Its menu uses intuitive icons, making it simple to operate. The FLIR TG165 also makes documentation easy by saving images you can download from the micro-SD card or over a USB connection and use for reports.</p> <p>With a spot ratio of 24:1, dual laser pointers, and a wide temperature range from 13–716°F (–25 to 380°C), the FLIR TG165 helps you to capture reliable readings from safer distances.</p> <ul style="list-style-type: none"> • See the heat and speed up troubleshooting. • Know where to measure temperature. • Grab and go simplicity—no special training required. • Pocket portable to fit a crowded tool bag. • Rugged and reliable.

IR temperature measurement	
Basic accuracy	±1.5% or 1.5°C
Basic range	–25 to 380°C (14–716°F)
Detailed ranges and accuracy	–25 to –10°C ± 3°C (–13 to 14°F ± 5°F) –10 to 0°C ± 2.0°C (–14–32°F ± 4°F) 0–380°C ±1.5°C or 1.5%, whichever is greater (32–716°F ± 3% or 3°F, whichever is greater)
Emissivity	4 pre-set levels with custom adjustment of 0.1–0.99
Distance to spot ratio (D:S)	24:1
Measurement resolution	0.1°C/°F
Response time	150 ms
Spectral response	8–14 μm
Lasers	Dual diverging lasers indicate the temperature measurement area, activated by pulling the trigger



FLIR TG165: Imaging IR Thermometer

P/N: TG165

Revision

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Website

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Customer support

<http://support.flir.com>

IR temperature measurement	
Calibration	Soft button multi-point by authorized FLIR service center
IR temperature resolution	0.1°C
IR temperature response time	<150 ms
IR thermometer measurement acquisition	Continuous scanning
Emissivity	4 presets, adjustable from 0.1 to 0.99
IR thermometer spectral range	8–14 μm
Minimum measurement distance	26 cm (10")

Thermal imaging	
Imaging detector	FLIR Lepton, microbolometer focal plane array
Shutter	Integrated automatic shutter for auto flat field correction
Image resolution (H × W)	4800 pixels (80 × 60)
Spectral response	8–14 μm
Field of view (H × W)	50° × 38.6°
Upper scene range	127°C, 260°F (400K)
Sensitivity	<150mK
Image update speed frequency	9 Hz
Thermal image palettes	2: hot-iron and gray-scale
Thermal image minimum focus distance	10 cm (4")

Power system	
Battery	3.7 V, 2600 mA h lithium ion battery, rechargeable via micro USB
Auto power off	Adjustable with disable
Battery charge life	30 days minimum
Battery life	8 hours continuous scanning with lasers
Charging time	90% at 4 hours, 100% at 6 hours

Image storage	
Memory type	Micro SD card accessible via top flap
Saved image format	Bitmap (BMP) image with temperature and emissivity
Image storage capacity	75 000 pictures with included 8 GB SD card
Memory expansion	32 GB SD card maximum
File format	BMP with temperature values overlaid

General information	
Display type	2.0" TFT LCD
Display resolution (W × H)	38 720 pixels (176 × 220)
Tripod mount	1/4"-20 on handle bottom
Warranty	2 years product, 10 years thermal imaging detector
Calibration	Multi-point by authorized FLIR service center
Certifications	CE, FDA



FLIR TG165: Imaging IR Thermometer

P/N: TG165

Revision

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Website

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Customer support

<http://support.flir.com>

Environmental specifications	
Drop test	Designed for 2 m (6.5')
Operating temperature	-10 to 45°C (14–113°F)
Storage temperature and relative humidity (RH)	-22 to 131°F (-30 to 55°C) 0–90% RH (32– 98.6°F (0–37°C)), 0–65% RH (98.6–113°F (37–45°C)), 0–45% RH (113–131°F (45–55°C))

Meter physical data	
Weight:	11 oz. (312 g)
Unit size (H x W x D)	7.3" x 2.2" x 3.7" (186 mm x 55 mm x 94 mm)
Material	PC-ABS, TPE
Color	Black, white, and silver

Shipping information	
Packaging type	Color box with view of product in clamshell
Packaging contents	TG165 imaging IR thermometer, 8 GB micro SD Card (installed in unit), quick-start guide (printed), translated user manual (on SD card, accessible via USB data and power micro USB cord), wrist strap lanyard, switching USB power supply with multiple plugs (US, UK, EU, AU, CN, KR (pending certification)), warranty registration notice FLIR T&M and camera card, quality management system card
Packaging dimensions (H x W x L)	34 cm x 15 cm x 12 cm (13.5" x 6" x 4.5")
Packaging weight	0.85 kg (1.8 lb.)
Carton dimensions	74 cm x 32 cm x 38 cm (30" x 13" x 15")
Carton weight	11.8 kg (26 lb.)
Carton quantity	12
EAN-13	0793950401651
UPC-12	793950401651
Country of origin	China
Tariff code	9025198080

Technical support	
Website	http://support.flir.com
E-mail	TMSupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Accessories	
TA13. EVA Protective Case for TG16X	Instock 11/1/14
TA14. Belt Holster for TG16X	Instock 11/1/14

P/N: 74701-0104

Revision

41856

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
<p>FLIR's new TG167 imaging infrared (IR) thermometer bridges the gap between single-spot IR thermometers and FLIR's legendary thermal cameras. Equipped with FLIR's exclusive Lepton micro thermal camera, the FLIR TG167 shows you where potential problems are brewing and where to aim your spot.</p> <p>The FLIR TG167 lets you see heat patterns, reliably measure temperature, and store images and data. Its menu uses intuitive icons, making it simple to operate. The FLIR TG167 also makes documentation easy by saving images you can download from the Micro SD card or over a USB connection and use for reports.</p>	
Key features	
<ul style="list-style-type: none"> • See the heat and speed up troubleshooting. • Know where to measure temperature. • Grab and go simplicity—no special training required. • Pocket portable to fit a crowded tool bag. • Rugged and reliable. 	
Imaging and optical data	
IR resolution	80 × 60 pixels
Thermal sensitivity/NETD	< 150 mK
Field of view (FOV)	25° × 19.6°
Minimum focus distance	0.1 m (4 in.)
Distance to spot ratio	24:1
Image frequency	9 Hz
Focus	Focus free
Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	8–14 μm
Image presentation	
Display	2.0 in. TFT LCD
Measurement	
Object temperature range	–25 to +380°C (–13 to +716°F)
Accuracy	±1.5% or 1.5°C (2.7°F)
Minimum measurement distance	26 cm (10 in.)



FLIR TG167 (Global)

P/N: 74701-0104

Revision

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Website

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Measurement analysis	
Center spot	Yes
Color palettes	<ul style="list-style-type: none"> Hot Iron Rainbow Grayscale

Set-up	
Set-up commands	<ul style="list-style-type: none"> Local adaptation of units, language, date, and time formats Deletion of images
Emissivity correction	4 pre-set levels with custom adjustment of 0.1–0.99

Storage of images	
Memory type	Micro SD card
Image storage capacity	75 000 pictures with included 8 GB Micro SD card
Memory expansion	32 GB SD card maximum
Saved image format	Bitmap (BMP) image with temperature and emissivity

Laser pointers	
Laser	Dual diverging lasers indicate the temperature measurement area, activated by pulling the trigger

Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	3.7 V
Battery operating time	>5 hours of continuous scanning with lasers
Battery charge life	30 days minimum
Charging system	Battery is charged inside the camera
Charging time	4 hours to 90%, 6 hours to 100%
Power management	Adjustable: off, 1 minute, 2 minutes, 5 minutes, 10 minutes

Environmental data	
Operating temperature range	–10 to +45°C (+14 to 113°F)
Storage temperature range	–30 to +55°C (–22 to 131°F)
Humidity (operating and storage)	0–90% relative humidity (RH) (0–37°C (32–98.6°F)), 0–65% RH (37–45°C (98.6–113°F)), 0–45% RH (45–55°C (113–131°F))
EMC	<ul style="list-style-type: none"> WEEE 2012/19/EC RoHS 2011/65/EC EN 61000-6-3 EN 61000-6-2 FCC 47 CFR Part 15 Class B
Magnetic fields	EN 61000-4-8
Encapsulation	IP 40 (IEC 60529)
Shock	25 g (IEC 60068-2-29)
Vibration	2 g (IEC 60068-2-6)
Drop	Designed for 2 m (6.6 ft.)
Safety	CE, FCC, PSC, FDA



FLIR TG167 (Global)

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Physical data	
Camera weight, incl. battery	0.312 kg (11 oz.)
Camera size (L x W x H)	186 mm x 55 mm x 94 mm (7.3 in. x 2.2 in. x 3.7 in.)
Tripod mounting	1/4 in.-20 on handle bottom
Color	Black, white, silver
Material	PC-ABS, TPU

Shipping information	
Packaging, type	Color box with view of product in clamshell
List of contents	<ul style="list-style-type: none">• Imaging IR thermometer• 8 GB Micro SD card• Printed documentation• Wrist strap lanyard• Power supply with separate USB cable
Packaging, weight	0.85 kg (1.8 lb.)
Packaging, size	34 cm x 15 cm x 12 cm (13.5 in. x 6 in. x 4.5 in.)
EAN-13	7332558010877
UPC-12	845188011628
Country of origin	China

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FLIR ThermaCAM GasFindIR series

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P/N: 24059-250

Revision

29700

Last modified

2015-10-16 07:11 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
<p>The ThermaCAM GasFindIR Class I Div II is a real-time infrared camera for visualization of gas leaks. It allows you to detect gas leaks quickly and safely, and is capable of rapidly scanning large areas and hundreds of components. The camera is a rugged piece of equipment and is designed specifically for use in harsh industrial environments.</p>	
<ul style="list-style-type: none"> • Infrared camera for real-time visualization of gas leaks. • Trace leaks to their source. • Reduce inspection time. • Perform safer inspections. • Light-weight, small, and rugged design. • Very good thermal sensitivity: <35 mK at 30°C (+86°F). 	
<ul style="list-style-type: none"> • Allows you to detect methane and other volatile organic compound (VOC) gas leaks. • Fulfills US NEC Class I, Division II, for hazardous locations. 	
<p>Detects the following gases: benzene, ethanol, ethylbenzene, heptane, hexane, isoprene, methanol, MEK, MIBK, octane, pentane, 1-pentene, toluene, xylene, butane, ethane, methane, propane, ethylene, propylene.</p>	

Licensing and classification	
License information	Fixed (non-removable) lens version of the ThermaCAM™ GasFindIR Class I, Div II requires US Department of Commerce License, except inside US.
Classification	US NEC Class I, Div II for use in hazardous locations

Imaging and optical data	
IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	35 mK @ +30°C (+86°F)
Lens mounting	Fixed (non-removable) lens
Field of view (FOV)	22° × 16°
Minimum focus distance	0.2 m (0.66 ft.)
Focal length	25 mm (0.98 in.)
Spatial resolution (IFOV)	1.2 mrad
F-number	2.3
Image frequency	Max 25 Hz (PAL)
Focus	Manual
Zoom	2× and 4× Digital Zoom

Detector data	
Detector type	Focal plane array (FPA), cooled InSb
Spectral range	3–5 μm



ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II PAL

P/N: 24059-250

Revision

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Website

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Customer support

<http://support.flir.com>

Detector data	
Sensor cooling	Stirling Microcooler (FLIR MC-3)
Well capacity	18 e ⁻⁶

Electronics and data rate	
Integration type (electronic shutter speed)	Snap shot
Integration time	Selectable: 1–16 ms
Read-out modes	Integrate while read
Dynamic range	12-bit
Full frame rate	50 Hz (PAL)

Scene temperature range (50 Hz/60 Hz)	
High (50 Hz/60 Hz) (power switch setting = 3)	15°C to 65°C (59°F to 149°F)
Medium (50 Hz/60 Hz) (power switch setting = 2)	40°C to 175°C (104°F to 347°F)
Low (50 Hz/60 Hz) (power switch setting = 1)	-15°C to 15°C (5°F to 59°F)

Image presentation	
Interpolation	None
Video output	RS-170 EIA/NTSC or CCIR/PAL composite video
Viewfinder	Built-in viewfinder, 800 × 600, OLED, B/W
External display	Via personal video recorder

Storage of images	
Storage media	Included personal video recorder
File formats	Standard .avi or .asf video format

Video recording in camera	
Video recording type	Recording of video sequences to personal video recorder.

Video streaming	
Streaming type	8-bit analog output

Data communication interfaces	
Serial communication, purpose	Command and control
Serial communication, standard	RS-232
Serial communication, connector type	7-pin Fischer connector

Composite video	
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC) S-video
Video, connector type	BNC (CVBS) 5-pin Fischer connector (S-video)

Power system	
Battery type	NiMH
Battery voltage	6 V



ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II PAL

P/N: 24059-250

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Power system	
Battery capacity	4.2 Ah
Battery operating time	Approx. 2 hours at +25°C (+77°F) ambient temperature and typical use
Battery note	The battery latch is replaced with a Torx screw on the GasFindIR Class I, Div II.
Charging system	Included battery charger (AC adapter or 12 V from a vehicle)
Power	< 6 W typically

Environmental data	
Operating temperature range	-15°C to +50°C (+5°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	20-80% (non condensing)
EMC	<ul style="list-style-type: none">EN 55011:1998 (Emission)EN 61000-4-2:1995 (Electronic Discharge)EN 61000-4-3:1996 (Electromagnetic Field Immunity)EN 61000-4-3:1993 (Magnetic Fields)

Physical data	
Camera weight, incl. lens and excl. battery	1.84 kg (4.05 lb.)
Camera weight, incl. lens and battery	2.20 kg (4.85 lb.)
Battery weight	0.36 kg (0.80 lb)
Camera size (L x W x H)	262 x 158 x 132 mm (10.3 x 6.2 x 5.2 in.)
Tripod mounting	UNC 1/4"-20
Housing material	Aluminum
Grip material	Rubber

Shipping information	
List of contents	<ul style="list-style-type: none">ThermaCAM GasFindIR Camera25 mm lens capOptical cleaning kitNeck strapBattery charger, 2 ea.NiMH battery, 3 ea.User's ManualHard transport caseS-Video cableVideo cablePersonal Video Recorder (PVR) and batteryA/V Cable for Personal Video Recorder

Supplies & accessories:

- 03198-000; Cable-BNC 6FT
- 14730-000; Cable-RS-232 Remote
- 20981-500; Cable S-Video GasFindIR
- 21466-000; A/V Cable for Archos PVR
- 21465-000; Personal Video Recorder
- 17619-200; DR 11 NiMH Battery
- 3301011; Hard Transport Case
- 09289-200; Optical Cleaning Kit
- 17151-002; Battery Charger (NiMH)

P/N: 24059-201

Revision

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Website

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Customer support

<http://support.flir.com>



General description	
<p>The ThermaCAM GasFindIR Class I Div II is a real-time infrared camera for visualization of gas leaks. It allows you to detect gas leaks quickly and safely, and is capable of rapidly scanning large areas and hundreds of components. The camera is a rugged piece of equipment and is designed specifically for use in harsh industrial environments.</p>	
<ul style="list-style-type: none"> • Infrared camera for real-time visualization of gas leaks. • Trace leaks to their source. • Reduce inspection time. • Perform safer inspections. • Light-weight, small, and rugged design. • Very good thermal sensitivity: <35 mK at 30°C (86°F). 	
<ul style="list-style-type: none"> • Allows you to detect methane and other volatile organic compound (VOC) gas leaks. • Fulfills US NEC Class I, Division II, for hazardous locations. 	
<p>Detects the following gases: benzene, ethanol, ethylbenzene, heptane, hexane, isoprene, methanol, MEK, MIBK, octane, pentane, 1-pentene, toluene, xylene, butane, ethane, methane, propane, ethylene, propylene.</p>	
Licensing and classification	
License information	Fixed (non-removable) lens version of the ThermaCAM™ GasFindIR Class I, Div II requires US Department of Commerce License, except inside US.
Classification	US NEC Class I, Div II for use in hazardous locations
Imaging and optical data	
IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	35 mK @ +30°C (+86°F)
Lens mounting	Fixed (non-removable) lens
Field of view (FOV)	22° × 16°
Minimum focus distance	0.2 m (0.66 ft.)
Focal length	25 mm (0.98 in.)
Spatial resolution (IFOV)	1.2 mrad
F-number	2.3
Image frequency	Max 30 Hz (NTSC)
Focus	Manual
Zoom	2× and 4× Digital Zoom
Detector data	
Detector type	Focal plane array (FPA), cooled InSb
Spectral range	3–5 μm



ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II NTSC

P/N: 24059-201

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Detector data	
Sensor cooling	Stirling Microcooler (FLIR MC-3)
Well capacity	18 e ⁻⁶

Electronics and data rate	
Integration type (electronic shutter speed)	Snap shot
Integration time	Selectable: 1–16 ms
Read-out modes	Integrate while read
Dynamic range	12-bit
Full frame rate	60 Hz (NTSC)

Scene temperature range (50 Hz/60 Hz)	
High (50 Hz/60 Hz) (power switch setting = 3)	15°C to 65°C (59°F to 149°F)
Medium (50 Hz/60 Hz) (power switch setting = 2)	40°C to 175°C (104°F to 347°F)
Low (50 Hz/60 Hz) (power switch setting = 1)	-15°C to 15°C (5°F to 59°F)

Image presentation	
Interpolation	None
Video output	RS-170 EIA/NTSC or CCIR/PAL composite video
Viewfinder	Built-in viewfinder, 800 × 600, OLED, B/W
External display	Via personal video recorder

Storage of images	
Storage media	Included personal video recorder
File formats	Standard .avi or .asf video format

Video recording in camera	
Video recording type	Recording of video sequences to personal video recorder.

Video streaming	
Streaming type	8-bit analog output

Data communication interfaces	
Serial communication, purpose	Command and control
Serial communication, standard	RS-232
Serial communication, connector type	7-pin Fischer connector

Composite video	
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC) S-video
Video, connector type	BNC (CVBS) 5-pin Fischer connector (S-video)

Power system	
Battery type	NiMH
Battery voltage	6 V



ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II NTSC

P/N: 24059-201

Revision

29700

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Power system	
Battery capacity	4.2 Ah
Battery operating time	Approx. 2 hours at +25°C (+77°F) ambient temperature and typical use
Battery note	The battery latch is replaced with a Torx screw on the GasFindIR Class I, Div II.
Charging system	Included battery charger (AC adapter or 12 V from a vehicle)
Power	< 6 W typically

Environmental data	
Operating temperature range	-15°C to +50°C (+5°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	20-80% (non condensing)
EMC	<ul style="list-style-type: none">EN 55011:1998 (Emission)EN 61000-4-2:1995 (Electronic Discharge)EN 61000-4-3:1996 (Electromagnetic Field Immunity)EN 61000-4-3:1993 (Magnetic Fields)

Physical data	
Camera weight, incl. lens and excl. battery	1.84 kg (4.05 lb.)
Camera weight, incl. lens and battery	2.20 kg (4.85 lb.)
Battery weight	0.36 kg (0.80 lb)
Camera size (L x W x H)	262 x 158 x 132 mm (10.3 x 6.2 x 5.2 in.)
Tripod mounting	UNC 1/4"-20
Housing material	Aluminum
Grip material	Rubber

Shipping information	
List of contents	<ul style="list-style-type: none">ThermaCAM GasFindIR Camera25 mm lens capOptical cleaning kitNeck strapBattery charger, 2 ea.NiMH battery, 3 ea.User's ManualHard transport caseS-Video cableVideo cablePersonal Video Recorder (PVR) and batteryA/V Cable for Personal Video Recorder

Supplies & accessories:

- 03198-000; Cable-BNC 6FT
- 14730-000; Cable-RS-232 Remote
- 20981-500; Cable S-Video GasFindIR
- 21466-000; A/V Cable for Archos PVR
- 21465-000; Personal Video Recorder
- 17619-200; DR 11 NiMH Battery
- 3301011; Hard Transport Case
- 09289-200; Optical Cleaning Kit
- 17151-002; Battery Charger (NiMH)

P/N: 24059-251

Revision

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Website

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Customer support

<http://support.flir.com>



General description

The ThermaCAM GasFindIR Class I Div II is a real-time infrared camera for visualization of gas leaks. It allows you to detect gas leaks quickly and safely, and is capable of rapidly scanning large areas and hundreds of components. The camera is a rugged piece of equipment and is designed specifically for use in harsh industrial environments.

- Infrared camera for real-time visualization of gas leaks.
- Trace leaks to their source.
- Reduce inspection time.
- Perform safer inspections.
- Light-weight, small, and rugged design.
- Very good thermal sensitivity: <35 mK at 30°C (86°F).

- Allows you to detect methane and other volatile organic compound (VOC) gas leaks.
- Fulfills US NEC Class I, Division II, for hazardous locations.

Detects the following gases: benzene, ethanol, ethylbenzene, heptane, hexane, isoprene, methanol, MEK, MIBK, octane, pentane, 1-pentene, toluene, xylene, butane, ethane, methane, propane, ethylene, propylene.

Licensing and classification

License information	Interchangeable lens version of the ThermaCAM™ GasFindIR Class I, Div II requires US Department of State License and will be subject to limitations on resale, except inside US. Allow a minimum of 90 days after application submittal for approval.
Classification	US NEC Class I, Div II for use in hazardous locations

Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	35 mK @ +30°C (+86°F)
Lens mounting	Interchangeable lens
Field of view (FOV)	22° × 16°
Minimum focus distance	0.2 m (0.66 ft.)
Focal length	25 mm (0.98 in.)
Spatial resolution (IFOV)	1.2 mrad
F-number	2.3
Image frequency	Max 25 Hz (PAL)
Focus	Manual
Zoom	2× and 4× Digital Zoom

Detector data

Detector type	Focal plane array (FPA), cooled InSb
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ThermaCAM™ GasFindIR 25 mm lens Class I Div II PAL

P/N: 24059-251

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Detector data	
Spectral range	3–5 μm
Sensor cooling	Stirling Microcooler (FLIR MC-3)
Well capacity	18 e ⁻⁶

Electronics and data rate	
Integration type (electronic shutter speed)	Snap shot
Integration time	Selectable: 1–16 ms
Read-out modes	Integrate while read
Dynamic range	12-bit
Full frame rate	50 Hz (PAL)

Scene temperature range (50 Hz/60 Hz)	
High (50 Hz/60 Hz) (power switch setting = 3)	15°C to 65°C (59°F to 149°F)
Medium (50 Hz/60 Hz) (power switch setting = 2)	40°C to 175°C (104°F to 347°F)
Low (50 Hz/60 Hz) (power switch setting = 1)	-15°C to 15°C (5°F to 59°F)

Image presentation	
Interpolation	None
Video output	RS-170 EIA/NTSC or CCIR/PAL composite video
Viewfinder	Built-in viewfinder, 800 × 600, OLED, B/W
External display	Via personal video recorder

Storage of images	
Storage media	Included personal video recorder
File formats	Standard .avi or .asf video format

Video recording in camera	
Video recording type	Recording of video sequences to personal video recorder.

Video streaming	
Streaming type	8-bit analog output

Data communication interfaces	
Serial communication, purpose	Command and control
Serial communication, standard	RS-232
Serial communication, connector type	7-pin Fischer connector

Composite video	
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC) S-video
Video, connector type	BNC (CVBS) 5-pin Fischer connector (S-video)

Power system	
Battery type	NiMH



ThermaCAM™ GasFindIR 25 mm lens Class I Div II PAL

P/N: 24059-251

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Power system	
Battery voltage	6 V
Battery capacity	4.2 Ah
Battery operating time	Approx. 2 hours at +25°C (+77°F) ambient temperature and typical use
Battery note	The battery latch is replaced with a Torx screw on the GasFindIR Class I, Div II.
Charging system	Included battery charger (AC adapter or 12 V from a vehicle)
Power	< 6 W typically

Environmental data	
Operating temperature range	-15°C to +50°C (+5°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	20–80% (non condensing)
EMC	<ul style="list-style-type: none">EN 55011:1998 (Emission)EN 61000-4-2:1995 (Electronic Discharge)EN 61000-4-3:1996 (Electromagnetic Field Immunity)EN 61000-4-3:1993 (Magnetic Fields)

Physical data	
Camera weight, incl. lens and excl. battery	1.84 kg (4.05 lb.)
Camera weight, incl. lens and battery	2.20 kg (4.85 lb.)
Battery weight	0.36 kg (0.80 lb)
Camera size (L x W x H)	262 x 158 x 132 mm (10.3 x 6.2 x 5.2 in.)
Tripod mounting	UNC ¼"-20
Housing material	Aluminum
Grip material	Rubber

Shipping information	
List of contents	<ul style="list-style-type: none">ThermaCAM GasFindIR Camera25 mm lens capOptical cleaning kitNeck strapBattery charger, 2 ea.NiMH battery, 3 ea.User's ManualHard transport caseS-Video cableVideo cablePersonal Video Recorder (PVR) and batteryA/V Cable for Personal Video Recorder

Supplies & accessories:

- 20887-200; 25 mm Lens
- 20888-200; 50 mm Lens
- 20889-200; 100 mm Lens
- 24016-000; Lens Hood for 25mm Lens
- 24016-001; Lens Hood for 50mm Lens
- 03198-000; Cable-BNC 6FT
- 14730-000; Cable-RS-232 Remote
- 20981-500; Cable S-Video GasFindIR
- 21466-000; A/V Cable for Archos PVR
- 21465-000; Personal Video Recorder
- 17619-200; DR 11 NiMH Battery
- 3301011; Hard Transport Case
- 09289-200; Optical Cleaning Kit
- 17151-002; Battery Charger (NiMH)

P/N: 24059-200

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
<p>The ThermaCAM GasFindIR Class I Div II is a real-time infrared camera for visualization of gas leaks. It allows you to detect gas leaks quickly and safely, and is capable of rapidly scanning large areas and hundreds of components. The camera is a rugged piece of equipment and is designed specifically for use in harsh industrial environments.</p>	
<ul style="list-style-type: none"> • Infrared camera for real-time visualization of gas leaks. • Trace leaks to their source. • Reduce inspection time. • Perform safer inspections. • Light-weight, small, and rugged design. • Very good thermal sensitivity: <35 mK at 30°C (86°F). 	
<ul style="list-style-type: none"> • Allows you to detect methane and other volatile organic compound (VOC) gas leaks. • Fulfills US NEC Class I, Division II, for hazardous locations. 	
<p>Detects the following gases: benzene, ethanol, ethylbenzene, heptane, hexane, isoprene, methanol, MEK, MIBK, octane, pentane, 1-pentene, toluene, xylene, butane, ethane, methane, propane, ethylene, propylene.</p>	

Licensing and classification	
License information	Interchangeable lens version of the ThermaCAM™ GasFindIR Class I, Div II requires US Department of State License and will be subject to limitations on resale, except inside US. Allow a minimum of 90 days after application submittal for approval.
Classification	US NEC Class I, Div II for use in hazardous locations

Imaging and optical data	
IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	35 mK @ +30°C (+86°F)
Lens mounting	Interchangeable lens
Field of view (FOV)	22° × 16°
Minimum focus distance	0.2 m (0.66 ft.)
Focal length	25 mm (0.98 in.)
Spatial resolution (IFOV)	1.2 mrad
F-number	2.3
Image frequency	Max 30 Hz (NTSC)
Focus	Manual
Zoom	2x and 4x Digital Zoom

Detector data	
Detector type	Focal plane array (FPA), cooled InSb



ThermaCAM™ GasFindIR 25 mm lens Class I Div II NTSC

P/N: 24059-200

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Detector data	
Spectral range	3–5 μm
Sensor cooling	Stirling Microcooler (FLIR MC-3)
Well capacity	18 e ⁻⁶

Electronics and data rate	
Integration type (electronic shutter speed)	Snap shot
Integration time	Selectable: 1–16 ms
Read-out modes	Integrate while read
Dynamic range	12-bit
Full frame rate	60 Hz (NTSC)

Scene temperature range (50 Hz/60 Hz)	
High (50 Hz/60 Hz) (power switch setting = 3)	15°C to 65°C (59°F to 149°F)
Medium (50 Hz/60 Hz) (power switch setting = 2)	40°C to 175°C (104°F to 347°F)
Low (50 Hz/60 Hz) (power switch setting = 1)	–15°C to 15°C (5°F to 59°F)

Image presentation	
Interpolation	None
Video output	RS-170 EIA/NTSC or CCIR/PAL composite video
Viewfinder	Built-in viewfinder, 800 × 600, OLED, B/W
External display	Via personal video recorder

Storage of images	
Storage media	Included personal video recorder
File formats	Standard .avi or .asf video format

Video recording in camera	
Video recording type	Recording of video sequences to personal video recorder.

Video streaming	
Streaming type	8-bit analog output

Data communication interfaces	
Serial communication, purpose	Command and control
Serial communication, standard	RS-232
Serial communication, connector type	7-pin Fischer connector

Composite video	
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC) S-video
Video, connector type	BNC (CVBS) 5-pin Fischer connector (S-video)

Power system	
Battery type	NiMH



ThermaCAM™ GasFindIR 25 mm lens Class I Div II NTSC

P/N: 24059-200

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Power system	
Battery voltage	6 V
Battery capacity	4.2 Ah
Battery operating time	Approx. 2 hours at +25°C (+77°F) ambient temperature and typical use
Battery note	The battery latch is replaced with a Torx screw on the GasFindIR Class I, Div II.
Charging system	Included battery charger (AC adapter or 12 V from a vehicle)
Power	< 6 W typically

Environmental data	
Operating temperature range	-15°C to +50°C (+5°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	20–80% (non condensing)
EMC	<ul style="list-style-type: none">EN 55011:1998 (Emission)EN 61000-4-2:1995 (Electronic Discharge)EN 61000-4-3:1996 (Electromagnetic Field Immunity)EN 61000-4-3:1993 (Magnetic Fields)

Physical data	
Camera weight, incl. lens and excl. battery	1.84 kg (4.05 lb.)
Camera weight, incl. lens and battery	2.20 kg (4.85 lb.)
Battery weight	0.36 kg (0.80 lb)
Camera size (L x W x H)	262 x 158 x 132 mm (10.3 x 6.2 x 5.2 in.)
Tripod mounting	UNC ¼"-20
Housing material	Aluminum
Grip material	Rubber

Shipping information	
List of contents	<ul style="list-style-type: none">ThermaCAM GasFindIR Camera25 mm lens capOptical cleaning kitNeck strapBattery charger, 2 ea.NiMH battery, 3 ea.User's ManualHard transport caseS-Video cableVideo cablePersonal Video Recorder (PVR) and batteryA/V Cable for Personal Video Recorder

Supplies & accessories:

- 20887-200; 25 mm Lens
- 20888-200; 50 mm Lens
- 20889-200; 100 mm Lens
- 24016-000; Lens Hood for 25mm Lens
- 24016-001; Lens Hood for 50mm Lens
- 03198-000; Cable-BNC 6FT
- 14730-000; Cable-RS-232 Remote
- 20981-500; Cable S-Video GasFindIR
- 21466-000; A/V Cable for Archos PVR
- 21465-000; Personal Video Recorder
- 17619-200; DR 11 NiMH Battery
- 3301011; Hard Transport Case
- 09289-200; Optical Cleaning Kit
- 17151-002; Battery Charger (NiMH)

FLIR UAS Cameras

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P/N: 80901-0100

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Gimbal (Zenmuse XT)	
Name	Zenmuse XT
Dimensions	103 mm × 74 mm × 102 mm (4.1 in. × 2.9 in. × 4.0 in.)
Weight	270 g (0.60 lb.)
Angular vibration range	±0.03°
Mount	Detachable
Controllable range	<ul style="list-style-type: none"> Tilt: +35° to -90° Pan: ±320° Roll: ±15°
Mechanical range	<ul style="list-style-type: none"> Tilt: +45° to -135° Pan: ±320° Roll: ±45°
Maximum controllable speed	120°/s

Camera (Zenmuse XT)	
Thermal imager	Uncooled VOx microbolometer
FPA/digital video display formats	336 x 256 pixels
Analog video display formats	<ul style="list-style-type: none"> 720 × 480 pixels (NTSC) 720 × 576 pixels (PAL)
Pixel pitch	17 μm
Spectral band	7.5–13.5 μm
Frame rates	<ul style="list-style-type: none"> 30 Hz (NTSC) 25 Hz (PAL)
Sensitivity (NEΔT)	<50 mK at f/1.0
Accuracy	±20°C (±36°F)
Scene range (high gain)	-25 to +100°C (-13 to +212°F)
Scene range (low gain)	-40 to 550°C (-40 to +1022°F)
Spot meter	Temperatures measured in central 4 × 4 pixels
File storage	Micro SD card. 16 GB Class 10 included, up to 32 GB supported.
Data logging	<ul style="list-style-type: none"> 8-bit AGC + LUT video at camera frame rate packaged in either .MOV or .MP4 wrappers. 8-bit AGC + LUT still images in .JPG. 14-bit TIFF raw still images with FLIR-specified metadata.



DJI Zenmuse XT 336 13mm (30Hz)

P/N: 80901-0100

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Image processing and display controls	
NTSC/PAL (field switchable)	Yes
Image optimization	Yes
Digital detail	Yes

Enhancement	
Polarity control (black hot/white hot)	Yes
Color and monochrome palettes (LUTs)	Yes
Digital zoom	2x, 4x, 8x

Lens model	
Focal length	13 mm
f number	f/1.25
FoV	25° × 19°
iFoV	1.308 mrad
Minimum focus distance	7.6 cm (3.0 in.)
Hyperfocal distance	4.4 m (14.4 ft.)
Hyperfocal depth of field	2.2 m (7.2 ft.)

Environmental	
Operating temperature range	-10 to +40°C (+14 to +104°F)
Non-operating temperature range	-30 to +70°C (-22 to +158°F)
Temperature shock	5°C/min (41°F/min)
Humidity	5-95%

Certifications	
Compliance	http://www.dji.com/euro-compliance

DJI GO app	
Mobile device system requirements	<ul style="list-style-type: none">• iOS version 7.1 or later• Android version 4.1.2 or later
Supported mobile devices	<ul style="list-style-type: none">• iPhone 6 Plus• iPhone 6• iPhone 5S• iPad Air 2• iPad Mini 3• iPad Air• iPad Mini 2• iPad 4• Samsung Note 3• Samsung S5• Sony Z3 EXPERIA <p>NOTE: It is recommended that you use a tablet for the best experience</p>

Documentation and firmware	
Download link	http://tinyurl.com/z8esgtc

Warranty	
Warranty	http://www.dji.com/service#warranty_period



DJI Zenmuse XT 336 13mm (30Hz)

P/N: 80901-0100

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Global trade data	
HS Code	9032896085 (Zenmuse XT)
ECCN code	6A003.b.4.b. (Zenmuse XT)

Shipping information	
Packaging type	Cardboard box
List of contents	<ul style="list-style-type: none">• Zenmuse XT thermal camera with stabilized gimbal• FLIR Tools+

P/N: 81401-0100

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Gimbal (Zenmuse XT)	
Name	Zenmuse XT
Dimensions	103 mm × 74 mm × 102 mm (4.1 in. × 2.9 in. × 4.0 in.)
Weight	270 g (0.60 lb.)
Angular vibration range	±0.03°
Mount	Detachable
Controllable range	<ul style="list-style-type: none"> Tilt: +35° to -90° Pan: ±320° Roll: ±15°
Mechanical range	<ul style="list-style-type: none"> Tilt: +45° to -135° Pan: ±320° Roll: ±45°
Maximum controllable speed	120°/s

Camera (Zenmuse XT)	
Thermal imager	Uncooled VOx microbolometer
FPA/digital video display formats	336 x 256 pixels
Analog video display formats	<ul style="list-style-type: none"> 720 × 480 pixels (NTSC) 720 × 576 pixels (PAL)
Pixel pitch	17 μm
Spectral band	7.5–13.5 μm
Frame rates	<ul style="list-style-type: none"> 7.5 Hz (NTSC) 8.3 Hz (PAL)
Sensitivity (NEΔT)	<50 mK at f/1.0
Accuracy	±20°C (±36°F)
Scene range (high gain)	-25 to +100°C (-13 to +212°F)
Scene range (low gain)	-40 to 550°C (-40 to +1022°F)
Spot meter	Temperatures measured in central 4 × 4 pixels
File storage	Micro SD card. 16 GB Class 10 included, up to 32 GB supported.
Data logging	<ul style="list-style-type: none"> 8-bit AGC + LUT video at camera frame rate packaged in either .MOV or .MP4 wrappers. 8-bit AGC + LUT still images in .JPG. 14-bit TIFF raw still images with FLIR-specified metadata.



DJI Zenmuse XT 336 13mm (9Hz)

P/N: 81401-0100

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Image processing and display controls	
NTSC/PAL (field switchable)	Yes
Image optimization	Yes
Digital detail	Yes

Enhancement	
Polarity control (black hot/white hot)	Yes
Color and monochrome palettes (LUTs)	Yes
Digital zoom	2x, 4x, 8x

Lens model	
Focal length	13 mm
f number	f/1.25
FoV	25° × 19°
iFoV	1.308 mrad
Minimum focus distance	7.6 cm (3.0 in.)
Hyperfocal distance	4.4 m (14.4 ft.)
Hyperfocal depth of field	2.2 m (7.2 ft.)

Environmental	
Operating temperature range	-10 to +40°C (+14 to +104°F)
Non-operating temperature range	-30 to +70°C (-22 to +158°F)
Temperature shock	5°C/min (41°F/min)
Humidity	5-95%

Certifications	
Compliance	http://www.dji.com/euro-compliance

DJI GO app	
Mobile device system requirements	<ul style="list-style-type: none">• iOS version 7.1 or later• Android version 4.1.2 or later
Supported mobile devices	<ul style="list-style-type: none">• iPhone 6 Plus• iPhone 6• iPhone 5S• iPad Air 2• iPad Mini 3• iPad Air• iPad Mini 2• iPad 4• Samsung Note 3• Samsung S5• Sony Z3 EXPERIA <p>NOTE: It is recommended that you use a tablet for the best experience</p>

Documentation and firmware	
Download link	http://tinyurl.com/z8esgtc

Warranty	
Warranty	http://www.dji.com/service#warranty_period



DJI Zenmuse XT 336 13mm (9Hz)

P/N: 81401-0100

Revision

46758

Last modified

2017-12-07 13:53 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Global trade data	
HS Code	9032896085 (Zenmuse XT)
ECCN code	6A993.a (Zenmuse XT)

Shipping information	
Packaging type	Cardboard box
List of contents	<ul style="list-style-type: none">• Zenmuse XT thermal camera with stabilized gimbal• FLIR Tools+

P/N: 80901-1100

Revision

46759

Last modified

2017-12-07 13:54 UTC+1

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Website

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Customer support

<http://support.flir.com>



Gimbal (Zenmuse XT)	
Name	Zenmuse XT
Dimensions	103 mm × 74 mm × 102 mm (4.1 in. × 2.9 in. × 4.0 in.)
Weight	270 g (0.60 lb.)
Angular vibration range	±0.03°
Mount	Detachable
Controllable range	<ul style="list-style-type: none"> Tilt: +35° to -90° Pan: ±320° Roll: ±15°
Mechanical range	<ul style="list-style-type: none"> Tilt: +45° to -135° Pan: ±320° Roll: ±45°
Maximum controllable speed	120°/s

Camera (Zenmuse XT)	
Thermal imager	Uncooled VOx microbolometer
FPA/digital video display formats	336 x 256 pixels
Analog video display formats	<ul style="list-style-type: none"> 720 × 480 pixels (NTSC) 720 × 576 pixels (PAL)
Pixel pitch	17 μm
Spectral band	7.5–13.5 μm
Frame rates	<ul style="list-style-type: none"> 30 Hz (NTSC) 25 Hz (PAL)
Sensitivity (NEΔT)	<50 mK at f/1.0
Accuracy	±5°C (±9°F)
Scene range (high gain)	-25 to +100°C (-13 to +212°F)
Scene range (low gain)	-40 to 550°C (-40 to +1022°F)
Measurement area	Temperatures measured in the full image
File storage	Micro SD card. 16 GB Class 10 included, up to 32 GB supported.
Data logging	<ul style="list-style-type: none"> 8-bit AGC + LUT video at camera frame rate packaged in either .MOV or .MP4 wrappers. 8-bit AGC + LUT still images in .JPG. 14-bit TIFF raw still images with FLIR-specified metadata.



DJI Zenmuse XT R 336 13mm (30Hz)

P/N: 80901-1100

Revision

46759

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Image processing and display controls	
NTSC/PAL (field switchable)	Yes
Image optimization	Yes
Digital detail	Yes

Enhancement	
Polarity control (black hot/white hot)	Yes
Color and monochrome palettes (LUTs)	Yes
Digital zoom	2x, 4x, 8x

Lens model	
Focal length	13 mm
f number	f/1.25
FoV	25° × 19°
iFoV	1.308 mrad
Minimum focus distance	7.6 cm (3.0 in.)
Hyperfocal distance	4.4 m (14.4 ft.)
Hyperfocal depth of field	2.2 m (7.2 ft.)

Environmental	
Operating temperature range	-10 to +40°C (+14 to +104°F)
Non-operating temperature range	-30 to +70°C (-22 to +158°F)
Temperature shock	5°C/min (41°F/min)
Humidity	5-95%

Certifications	
Compliance	http://www.dji.com/euro-compliance

DJI GO app	
Mobile device system requirements	<ul style="list-style-type: none">• iOS version 7.1 or later• Android version 4.1.2 or later
Supported mobile devices	<ul style="list-style-type: none">• iPhone 6 Plus• iPhone 6• iPhone 5S• iPad Air 2• iPad Mini 3• iPad Air• iPad Mini 2• iPad 4• Samsung Note 3• Samsung S5• Sony Z3 EXPERIA <div style="border: 1px solid black; padding: 2px;">NOTE: It is recommended that you use a tablet for the best experience</div>

Documentation and firmware	
Download link	http://tinyurl.com/z8esgtc

Warranty	
Warranty	http://www.dji.com/service#warranty_period



DJI Zenmuse XT R 336 13mm (30Hz)

P/N: 80901-1100

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Global trade data	
HS Code	9032896085 (Zenmuse XT)
ECCN code	6A003.b.4.b. (Zenmuse XT)

Shipping information	
Packaging type	Cardboard box
List of contents	<ul style="list-style-type: none">• Zenmuse XT thermal camera with stabilized gimbal• FLIR Tools+

P/N: 81401-1100

Revision

46760

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Gimbal (Zenmuse XT)	
Name	Zenmuse XT
Dimensions	103 mm × 74 mm × 102 mm (4.1 in. × 2.9 in. × 4.0 in.)
Weight	270 g (0.60 lb.)
Angular vibration range	±0.03°
Mount	Detachable
Controllable range	<ul style="list-style-type: none"> Tilt: +35° to -90° Pan: ±320° Roll: ±15°
Mechanical range	<ul style="list-style-type: none"> Tilt: +45° to -135° Pan: ±320° Roll: ±45°
Maximum controllable speed	120°/s

Camera (Zenmuse XT)	
Thermal imager	Uncooled VOx microbolometer
FPA/digital video display formats	336 x 256 pixels
Analog video display formats	<ul style="list-style-type: none"> 720 × 480 pixels (NTSC) 720 × 576 pixels (PAL)
Pixel pitch	17 μm
Spectral band	7.5–13.5 μm
Frame rates	<ul style="list-style-type: none"> 7.5 Hz (NTSC) 8.3 Hz (PAL)
Sensitivity (NEΔT)	<50 mK at f/1.0
Accuracy	±5°C (±9°F)
Scene range (high gain)	-25 to +100°C (-13 to +212°F)
Scene range (low gain)	-40 to 550°C (-40 to +1022°F)
Measurement area	Temperatures measured in the full image
File storage	Micro SD card. 16 GB Class 10 included, up to 32 GB supported.
Data logging	<ul style="list-style-type: none"> 8-bit AGC + LUT video at camera frame rate packaged in either .MOV or .MP4 wrappers. 8-bit AGC + LUT still images in .JPG. 14-bit TIFF raw still images with FLIR-specified metadata.



DJI Zenmuse XT R 336 13mm (9Hz)

P/N: 81401-1100

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Image processing and display controls	
NTSC/PAL (field switchable)	Yes
Image optimization	Yes
Digital detail	Yes

Enhancement	
Polarity control (black hot/white hot)	Yes
Color and monochrome palettes (LUTs)	Yes
Digital zoom	2x, 4x, 8x

Lens model	
Focal length	13 mm
f number	f/1.25
FoV	25° × 19°
iFoV	1.308 mrad
Minimum focus distance	7.6 cm (3.0 in.)
Hyperfocal distance	4.4 m (14.4 ft.)
Hyperfocal depth of field	2.2 m (7.2 ft.)

Environmental	
Operating temperature range	-10 to +40°C (+14 to +104°F)
Non-operating temperature range	-30 to +70°C (-22 to +158°F)
Temperature shock	5°C/min (41°F/min)
Humidity	5-95%

Certifications	
Compliance	http://www.dji.com/euro-compliance

DJI GO app	
Mobile device system requirements	<ul style="list-style-type: none">• iOS version 7.1 or later• Android version 4.1.2 or later
Supported mobile devices	<ul style="list-style-type: none">• iPhone 6 Plus• iPhone 6• iPhone 5S• iPad Air 2• iPad Mini 3• iPad Air• iPad Mini 2• iPad 4• Samsung Note 3• Samsung S5• Sony Z3 EXPERIA <div style="border: 1px solid black; padding: 2px;">NOTE: It is recommended that you use a tablet for the best experience</div>

Documentation and firmware	
Download link	http://tinyurl.com/z8esgtc

Warranty	
Warranty	http://www.dji.com/service#warranty_period



DJI Zenmuse XT R 336 13mm (9Hz)

P/N: 81401-1100

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Website

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Customer support

<http://support.flir.com>

Global trade data	
HS Code	9032896085 (Zenmuse XT)
ECCN code	6A993.a (Zenmuse XT)

Shipping information	
Packaging type	Cardboard box
List of contents	<ul style="list-style-type: none">• Zenmuse XT thermal camera with stabilized gimbal• FLIR Tools+

P/N: 81001-0100

Revision

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Website

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Customer support

<http://support.flir.com>



Gimbal (Zenmuse XT)	
Name	Zenmuse XT
Dimensions	103 mm × 74 mm × 102 mm (4.1 in. × 2.9 in. × 4.0 in.)
Weight	270 g (0.60 lb.)
Angular vibration range	±0.03°
Mount	Detachable
Controllable range	<ul style="list-style-type: none"> Tilt: +35° to -90° Pan: ±320° Roll: ±15°
Mechanical range	<ul style="list-style-type: none"> Tilt: +45° to -135° Pan: ±320° Roll: ±45°
Maximum controllable speed	120°/s

Camera (Zenmuse XT)	
Thermal imager	Uncooled VOx microbolometer
FPA/digital video display formats	336 x 256 pixels
Analog video display formats	<ul style="list-style-type: none"> 720 × 480 pixels (NTSC) 720 × 576 pixels (PAL)
Pixel pitch	17 μm
Spectral band	7.5–13.5 μm
Frame rates	<ul style="list-style-type: none"> 30 Hz (NTSC) 25 Hz (PAL)
Sensitivity (NEΔT)	<50 mK at f/1.0
Accuracy	±20°C (±36°F)
Scene range (high gain)	-25 to +100°C (-13 to +212°F)
Scene range (low gain)	-40 to 550°C (-40 to +1022°F)
Spot meter	Temperatures measured in central 4 × 4 pixels
File storage	Micro SD card. 16 GB Class 10 included, up to 32 GB supported.
Data logging	<ul style="list-style-type: none"> 8-bit AGC + LUT video at camera frame rate packaged in either .MOV or .MP4 wrappers. 8-bit AGC + LUT still images in .JPG. 14-bit TIFF raw still images with FLIR-specified metadata.



DJI Zenmuse XT 336 19mm (30Hz)

P/N: 81001-0100

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Website

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Customer support

<http://support.flir.com>

Image processing and display controls	
NTSC/PAL (field switchable)	Yes
Image optimization	Yes
Digital detail	Yes

Enhancement	
Polarity control (black hot/white hot)	Yes
Color and monochrome palettes (LUTs)	Yes
Digital zoom	2x, 4x, 8x

Lens model	
Focal length	19 mm
f number	f/1.25
FoV	17° × 13°
iFoV	0.895 mrad
Minimum focus distance	15.3 cm (6.0 in.)
Hyperfocal distance	9.5 m (31.1 ft.)
Hyperfocal depth of field	4.8 m (15.7 ft.)

Environmental	
Operating temperature range	-10 to +40°C (+14 to +104°F)
Non-operating temperature range	-30 to +70°C (-22 to +158°F)
Temperature shock	5°C/min (41°F/min)
Humidity	5-95%

Certifications	
Compliance	http://www.dji.com/euro-compliance

DJI GO app	
Mobile device system requirements	<ul style="list-style-type: none">• iOS version 7.1 or later• Android version 4.1.2 or later
Supported mobile devices	<ul style="list-style-type: none">• iPhone 6 Plus• iPhone 6• iPhone 5S• iPad Air 2• iPad Mini 3• iPad Air• iPad Mini 2• iPad 4• Samsung Note 3• Samsung S5• Sony Z3 EXPERIA <div style="border: 1px solid black; padding: 2px;">NOTE: It is recommended that you use a tablet for the best experience</div>

Documentation and firmware	
Download link	http://tinyurl.com/z8esgtc

Warranty	
Warranty	http://www.dji.com/service#warranty_period



DJI Zenmuse XT 336 19mm (30Hz)

P/N: 81001-0100

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Global trade data	
HS Code	9032896085 (Zenmuse XT)
ECCN code	6A003.b.4.b. (Zenmuse XT)

Shipping information	
Packaging type	Cardboard box
List of contents	<ul style="list-style-type: none">• Zenmuse XT thermal camera with stabilized gimbal• FLIR Tools+

P/N: 81501-0100

Revision

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Website

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Customer support

<http://support.flir.com>



Gimbal (Zenmuse XT)	
Name	Zenmuse XT
Dimensions	103 mm × 74 mm × 102 mm (4.1 in. × 2.9 in. × 4.0 in.)
Weight	270 g (0.60 lb.)
Angular vibration range	±0.03°
Mount	Detachable
Controllable range	<ul style="list-style-type: none"> Tilt: +35° to -90° Pan: ±320° Roll: ±15°
Mechanical range	<ul style="list-style-type: none"> Tilt: +45° to -135° Pan: ±320° Roll: ±45°
Maximum controllable speed	120°/s

Camera (Zenmuse XT)	
Thermal imager	Uncooled VOx microbolometer
FPA/digital video display formats	336 x 256 pixels
Analog video display formats	<ul style="list-style-type: none"> 720 × 480 pixels (NTSC) 720 × 576 pixels (PAL)
Pixel pitch	17 μm
Spectral band	7.5–13.5 μm
Frame rates	<ul style="list-style-type: none"> 7.5 Hz (NTSC) 8.3 Hz (PAL)
Sensitivity (NEΔT)	<50 mK at f/1.0
Accuracy	±20°C (±36°F)
Scene range (high gain)	-25 to +100°C (-13 to +212°F)
Scene range (low gain)	-40 to 550°C (-40 to +1022°F)
Spot meter	Temperatures measured in central 4 × 4 pixels
File storage	Micro SD card. 16 GB Class 10 included, up to 32 GB supported.
Data logging	<ul style="list-style-type: none"> 8-bit AGC + LUT video at camera frame rate packaged in either .MOV or .MP4 wrappers. 8-bit AGC + LUT still images in .JPG. 14-bit TIFF raw still images with FLIR-specified metadata.



DJI Zenmuse XT 336 19mm (9Hz)

P/N: 81501-0100

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Image processing and display controls	
NTSC/PAL (field switchable)	Yes
Image optimization	Yes
Digital detail	Yes

Enhancement	
Polarity control (black hot/white hot)	Yes
Color and monochrome palettes (LUTs)	Yes
Digital zoom	2x, 4x, 8x

Lens model	
Focal length	19 mm
f number	f/1.25
FoV	17° × 13°
iFoV	1.895 mrad
Minimum focus distance	15.3 cm (6.0 in.)
Hyperfocal distance	9.5 m (31.1 ft.)
Hyperfocal depth of field	4.8 m (15.7 ft.)

Environmental	
Operating temperature range	-10 to +40°C (+14 to +104°F)
Non-operating temperature range	-30 to +70°C (-22 to +158°F)
Temperature shock	5°C/min (41°F/min)
Humidity	5-95%

Certifications	
Compliance	http://www.dji.com/euro-compliance

DJI GO app	
Mobile device system requirements	<ul style="list-style-type: none">• iOS version 7.1 or later• Android version 4.1.2 or later
Supported mobile devices	<ul style="list-style-type: none">• iPhone 6 Plus• iPhone 6• iPhone 5S• iPad Air 2• iPad Mini 3• iPad Air• iPad Mini 2• iPad 4• Samsung Note 3• Samsung S5• Sony Z3 EXPERIA <p>NOTE: It is recommended that you use a tablet for the best experience</p>

Documentation and firmware	
Download link	http://tinyurl.com/z8esgtc

Warranty	
Warranty	http://www.dji.com/service#warranty_period



DJI Zenmuse XT 336 19mm (9Hz)

P/N: 81501-0100

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Global trade data	
HS Code	9032896085 (Zenmuse XT)
ECCN code	6A993.a (Zenmuse XT)

Shipping information	
Packaging type	Cardboard box
List of contents	<ul style="list-style-type: none">• Zenmuse XT thermal camera with stabilized gimbal• FLIR Tools+

P/N: 81001-1100

Revision

46763

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Gimbal (Zenmuse XT)	
Name	Zenmuse XT
Dimensions	103 mm × 74 mm × 102 mm (4.1 in. × 2.9 in. × 4.0 in.)
Weight	270 g (0.60 lb.)
Angular vibration range	±0.03°
Mount	Detachable
Controllable range	<ul style="list-style-type: none"> Tilt: +35° to -90° Pan: ±320° Roll: ±15°
Mechanical range	<ul style="list-style-type: none"> Tilt: +45° to -135° Pan: ±320° Roll: ±45°
Maximum controllable speed	120°/s

Camera (Zenmuse XT)	
Thermal imager	Uncooled VOx microbolometer
FPA/digital video display formats	336 x 256 pixels
Analog video display formats	<ul style="list-style-type: none"> 720 × 480 pixels (NTSC) 720 × 576 pixels (PAL)
Pixel pitch	17 μm
Spectral band	7.5–13.5 μm
Frame rates	<ul style="list-style-type: none"> 30 Hz (NTSC) 25 Hz (PAL)
Sensitivity (NEΔT)	<50 mK at f/1.0
Accuracy	±5°C (±9°F)
Scene range (high gain)	-25 to +100°C (-13 to +212°F)
Scene range (low gain)	-40 to 550°C (-40 to +1022°F)
Measurement area	Temperatures measured in the full image
File storage	Micro SD card. 16 GB Class 10 included, up to 32 GB supported.
Data logging	<ul style="list-style-type: none"> 8-bit AGC + LUT video at camera frame rate packaged in either .MOV or .MP4 wrappers. 8-bit AGC + LUT still images in .JPG. 14-bit TIFF raw still images with FLIR-specified metadata.



DJI Zenmuse XT R 336 19mm (30Hz)

P/N: 81001-1100

Revision

46763

Last modified

2017-12-07 13:59 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Image processing and display controls	
NTSC/PAL (field switchable)	Yes
Image optimization	Yes
Digital detail	Yes

Enhancement	
Polarity control (black hot/white hot)	Yes
Color and monochrome palettes (LUTs)	Yes
Digital zoom	2x, 4x, 8x

Lens model	
Focal length	19 mm
f number	f/1.25
FoV	17° × 13°
iFoV	0.895 mrad
Minimum focus distance	15.3 cm (6.0 in.)
Hyperfocal distance	9.5 m (31.1 ft.)
Hyperfocal depth of field	4.8 m (15.7 ft.)

Environmental	
Operating temperature range	-10 to +40°C (+14 to +104°F)
Non-operating temperature range	-30 to +70°C (-22 to +158°F)
Temperature shock	5°C/min (41°F/min)
Humidity	5-95%

Certifications	
Compliance	http://www.dji.com/euro-compliance

DJI GO app	
Mobile device system requirements	<ul style="list-style-type: none">• iOS version 7.1 or later• Android version 4.1.2 or later
Supported mobile devices	<ul style="list-style-type: none">• iPhone 6 Plus• iPhone 6• iPhone 5S• iPad Air 2• iPad Mini 3• iPad Air• iPad Mini 2• iPad 4• Samsung Note 3• Samsung S5• Sony Z3 EXPERIA <p>NOTE: It is recommended that you use a tablet for the best experience</p>

Documentation and firmware	
Download link	http://tinyurl.com/z8esgtc

Warranty	
Warranty	http://www.dji.com/service#warranty_period



DJI Zenmuse XT R 336 19mm (30Hz)

P/N: 81001-1100

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Global trade data	
HS Code	9032896085 (Zenmuse XT)
ECCN code	6A003.b.4.b. (Zenmuse XT)

Shipping information	
Packaging type	Cardboard box
List of contents	<ul style="list-style-type: none">• Zenmuse XT thermal camera with stabilized gimbal• FLIR Tools+

P/N: 81501-1100

Revision

46764

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Gimbal (Zenmuse XT)	
Name	Zenmuse XT
Dimensions	103 mm × 74 mm × 102 mm (4.1 in. × 2.9 in. × 4.0 in.)
Weight	270 g (0.60 lb.)
Angular vibration range	±0.03°
Mount	Detachable
Controllable range	<ul style="list-style-type: none"> Tilt: +35° to -90° Pan: ±320° Roll: ±15°
Mechanical range	<ul style="list-style-type: none"> Tilt: +45° to -135° Pan: ±320° Roll: ±45°
Maximum controllable speed	120°/s

Camera (Zenmuse XT)	
Thermal imager	Uncooled VOx microbolometer
FPA/digital video display formats	336 x 256 pixels
Analog video display formats	<ul style="list-style-type: none"> 720 × 480 pixels (NTSC) 720 × 576 pixels (PAL)
Pixel pitch	17 μm
Spectral band	7.5–13.5 μm
Frame rates	<ul style="list-style-type: none"> 7.5 Hz (NTSC) 8.3 Hz (PAL)
Sensitivity (NEΔT)	<50 mK at f/1.0
Accuracy	±5°C (±9°F)
Scene range (high gain)	-25 to +100°C (-13 to +212°F)
Scene range (low gain)	-40 to 550°C (-40 to +1022°F)
Measurement area	Temperatures measured in the full image
File storage	Micro SD card. 16 GB Class 10 included, up to 32 GB supported.
Data logging	<ul style="list-style-type: none"> 8-bit AGC + LUT video at camera frame rate packaged in either .MOV or .MP4 wrappers. 8-bit AGC + LUT still images in .JPG. 14-bit TIFF raw still images with FLIR-specified metadata.



DJI Zenmuse XT R 336 19mm (9Hz)

P/N: 81501-1100

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Image processing and display controls	
NTSC/PAL (field switchable)	Yes
Image optimization	Yes
Digital detail	Yes

Enhancement	
Polarity control (black hot/white hot)	Yes
Color and monochrome palettes (LUTs)	Yes
Digital zoom	2x, 4x, 8x

Lens model	
Focal length	19 mm
f number	f/1.25
FoV	17° × 13°
iFoV	0.895 mrad
Minimum focus distance	15.3 cm (6.0 in.)
Hyperfocal distance	9.5 m (31.1 ft.)
Hyperfocal depth of field	4.8 m (15.7 ft.)

Environmental	
Operating temperature range	-10 to +40°C (+14 to +104°F)
Non-operating temperature range	-30 to +70°C (-22 to +158°F)
Temperature shock	5°C/min (41°F/min)
Humidity	5-95%

Certifications	
Compliance	http://www.dji.com/euro-compliance

DJI GO app	
Mobile device system requirements	<ul style="list-style-type: none">• iOS version 7.1 or later• Android version 4.1.2 or later
Supported mobile devices	<ul style="list-style-type: none">• iPhone 6 Plus• iPhone 6• iPhone 5S• iPad Air 2• iPad Mini 3• iPad Air• iPad Mini 2• iPad 4• Samsung Note 3• Samsung S5• Sony Z3 EXPERIA <p>NOTE: It is recommended that you use a tablet for the best experience</p>

Documentation and firmware	
Download link	http://tinyurl.com/z8esgtc

Warranty	
Warranty	http://www.dji.com/service#warranty_period



DJI Zenmuse XT R 336 19mm (9Hz)

P/N: 81501-1100

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Global trade data	
HS Code	9032896085 (Zenmuse XT)
ECCN code	6A993.a (Zenmuse XT)

Shipping information	
Packaging type	Cardboard box
List of contents	<ul style="list-style-type: none">• Zenmuse XT thermal camera with stabilized gimbal• FLIR Tools+

P/N: 81101-0100

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Gimbal (Zenmuse XT)	
Name	Zenmuse XT
Dimensions	103 mm × 74 mm × 102 mm (4.1 in. × 2.9 in. × 4.0 in.)
Weight	270 g (0.60 lb.)
Angular vibration range	±0.03°
Mount	Detachable
Controllable range	<ul style="list-style-type: none"> Tilt: +35° to -90° Pan: ±320° Roll: ±15°
Mechanical range	<ul style="list-style-type: none"> Tilt: +45° to -135° Pan: ±320° Roll: ±45°
Maximum controllable speed	120°/s

Camera (Zenmuse XT)	
Thermal imager	Uncooled VOx microbolometer
FPA/digital video display formats	640 × 512 pixels
Analog video display formats	<ul style="list-style-type: none"> 720 × 480 pixels (NTSC) 720 × 576 pixels (PAL)
Pixel pitch	17 μm
Spectral band	7.5–13.5 μm
Frame rates	<ul style="list-style-type: none"> 30 Hz (NTSC) 25 Hz (PAL)
Sensitivity (NEΔT)	<50 mK at f/1.0
Accuracy	±20°C (±36°F)
Scene range (high gain)	-25 to +135°C (-13 to +275°F)
Scene range (low gain)	-40 to 550°C (-40 to +1022°F)
Spot meter	Temperatures measured in central 4 × 4 pixels
File storage	Micro SD card. 16 GB Class 10 included, up to 32 GB supported.
Data logging	<ul style="list-style-type: none"> 8-bit AGC + LUT video at camera frame rate packaged in either .MOV or .MP4 wrappers. 8-bit AGC + LUT still images in .JPG. 14-bit TIFF raw still images with FLIR-specified metadata.



DJI Zenmuse XT 640 7.5mm (30Hz)

P/N: 81101-0100

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Image processing and display controls	
NTSC/PAL (field switchable)	Yes
Image optimization	Yes
Digital detail	Yes

Enhancement	
Polarity control (black hot/white hot)	Yes
Color and monochrome palettes (LUTs)	Yes
Digital zoom	2x, 4x, 8x

Lens model	
Focal length	7.5 mm
f number	f/1.4
FoV	90° × 56°
iFoV	2.267mrad
Minimum focus distance	2.5 cm (1.0 in.)
Hyperfocal distance	1.2 m (3.9 ft.)
Hyperfocal depth of field	0.6 m (2.0 ft.)

Environmental	
Operating temperature range	-10 to +40°C (+14 to +104°F)
Non-operating temperature range	-30 to +70°C (-22 to +158°F)
Temperature shock	5°C/min (41°F/min)
Humidity	5-95%

Certifications	
Compliance	http://www.dji.com/euro-compliance

DJI GO app	
Mobile device system requirements	<ul style="list-style-type: none">• iOS version 7.1 or later• Android version 4.1.2 or later
Supported mobile devices	<ul style="list-style-type: none">• iPhone 6 Plus• iPhone 6• iPhone 5S• iPad Air 2• iPad Mini 3• iPad Air• iPad Mini 2• iPad 4• Samsung Note 3• Samsung S5• Sony Z3 EXPERIA <p>NOTE: It is recommended that you use a tablet for the best experience</p>

Documentation and firmware	
Download link	http://tinyurl.com/z8esgtc

Warranty	
Warranty	http://www.dji.com/service#warranty_period



DJI Zenmuse XT 640 7.5mm (30Hz)

P/N: 81101-0100

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Website

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Customer support

<http://support.flir.com>

Global trade data	
HS Code	9032896085 (Zenmuse XT)
ECCN code	6A003.b.4.b. (Zenmuse XT)

Shipping information	
Packaging type	Cardboard box
List of contents	<ul style="list-style-type: none">• Zenmuse XT thermal camera with stabilized gimbal• FLIR Tools+

P/N: 81601-0100

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Gimbal (Zenmuse XT)	
Name	Zenmuse XT
Dimensions	103 mm × 74 mm × 102 mm (4.1 in. × 2.9 in. × 4.0 in.)
Weight	270 g (0.60 lb.)
Angular vibration range	±0.03°
Mount	Detachable
Controllable range	<ul style="list-style-type: none"> Tilt: +35° to -90° Pan: ±320° Roll: ±15°
Mechanical range	<ul style="list-style-type: none"> Tilt: +45° to -135° Pan: ±320° Roll: ±45°
Maximum controllable speed	120°/s

Camera (Zenmuse XT)	
Thermal imager	Uncooled VOx microbolometer
FPA/digital video display formats	640 × 512 pixels
Analog video display formats	<ul style="list-style-type: none"> 720 × 480 pixels (NTSC) 720 × 576 pixels (PAL)
Pixel pitch	17 μm
Spectral band	7.5–13.5 μm
Frame rates	<ul style="list-style-type: none"> 7.5 Hz (NTSC) 8.3 Hz (PAL)
Sensitivity (NEΔT)	<50 mK at f/1.0
Accuracy	±20°C (±36°F)
Scene range (high gain)	-25 to +135°C (-13 to +275°F)
Scene range (low gain)	-40 to 550°C (-40 to +1022°F)
Spot meter	Temperatures measured in central 4 × 4 pixels
File storage	Micro SD card. 16 GB Class 10 included, up to 32 GB supported.
Data logging	<ul style="list-style-type: none"> 8-bit AGC + LUT video at camera frame rate packaged in either .MOV or .MP4 wrappers. 8-bit AGC + LUT still images in .JPG. 14-bit TIFF raw still images with FLIR-specified metadata.



DJI Zenmuse XT 640 7.5 mm (9Hz)

P/N: 81601-0100

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Image processing and display controls	
NTSC/PAL (field switchable)	Yes
Image optimization	Yes
Digital detail	Yes

Enhancement	
Polarity control (black hot/white hot)	Yes
Color and monochrome palettes (LUTs)	Yes
Digital zoom	2x, 4x, 8x

Lens model	
Focal length	7.5 mm
f number	f/1.4
FoV	90° × 69°
iFoV	2.267 mrad
Minimum focus distance	2.5 cm (1.0 in.)
Hyperfocal distance	1.2 m (3.9 ft.)
Hyperfocal depth of field	0.6 m (2.0 ft.)

Environmental	
Operating temperature range	-10 to +40°C (+14 to +104°F)
Non-operating temperature range	-30 to +70°C (-22 to +158°F)
Temperature shock	5°C/min (41°F/min)
Humidity	5-95%

Certifications	
Compliance	http://www.dji.com/euro-compliance

DJI GO app	
Mobile device system requirements	<ul style="list-style-type: none">• iOS version 7.1 or later• Android version 4.1.2 or later
Supported mobile devices	<ul style="list-style-type: none">• iPhone 6 Plus• iPhone 6• iPhone 5S• iPad Air 2• iPad Mini 3• iPad Air• iPad Mini 2• iPad 4• Samsung Note 3• Samsung S5• Sony Z3 EXPERIA <div style="border: 1px solid black; padding: 2px;">NOTE: It is recommended that you use a tablet for the best experience</div>

Documentation and firmware	
Download link	http://tinyurl.com/z8esgtc

Warranty	
Warranty	http://www.dji.com/service#warranty_period



DJI Zenmuse XT 640 7.5 mm (9Hz)

P/N: 81601-0100

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Global trade data	
HS Code	9032896085 (Zenmuse XT)
ECCN code	6A993.a (Zenmuse XT)

Shipping information	
Packaging type	Cardboard box
List of contents	<ul style="list-style-type: none">• Zenmuse XT thermal camera with stabilized gimbal• FLIR Tools+

P/N: 80801-0100

Revision

46767

Last modified

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Gimbal (Zenmuse XT)	
Name	Zenmuse XT
Dimensions	103 mm × 74 mm × 102 mm (4.1 in. × 2.9 in. × 4.0 in.)
Weight	270 g (0.60 lb.)
Angular vibration range	±0.03°
Mount	Detachable
Controllable range	<ul style="list-style-type: none"> Tilt: +35° to -90° Pan: ±320° Roll: ±15°
Mechanical range	<ul style="list-style-type: none"> Tilt: +45° to -135° Pan: ±320° Roll: ±45°
Maximum controllable speed	120°/s

Camera (Zenmuse XT)	
Thermal imager	Uncooled VOx microbolometer
FPA/digital video display formats	336 x 256 pixels
Analog video display formats	<ul style="list-style-type: none"> 720 × 480 pixels (NTSC) 720 × 576 pixels (PAL)
Pixel pitch	17 μm
Spectral band	7.5–13.5 μm
Frame rates	<ul style="list-style-type: none"> 30 Hz (NTSC) 25 Hz (PAL)
Sensitivity (NEΔT)	<50 mK at f/1.0
Accuracy	±20°C (±36°F)
Scene range (high gain)	-25 to +100°C (-13 to +212°F)
Scene range (low gain)	-40 to 550°C (-40 to +1022°F)
Spot meter	Temperatures measured in central 4 × 4 pixels
File storage	Micro SD card. 16 GB Class 10 included, up to 32 GB supported.
Data logging	<ul style="list-style-type: none"> 8-bit AGC + LUT video at camera frame rate packaged in either .MOV or .MP4 wrappers. 8-bit AGC + LUT still images in .JPG. 14-bit TIFF raw still images with FLIR-specified metadata.



DJI Zenmuse XT 336 9mm (30Hz)

P/N: 80801-0100

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Image processing and display controls	
NTSC/PAL (field switchable)	Yes
Image optimization	Yes
Digital detail	Yes

Enhancement	
Polarity control (black hot/white hot)	Yes
Color and monochrome palettes (LUTs)	Yes
Digital zoom	2x, 4x, 8x

Lens model	
Focal length	9 mm
f number	f/1.25
FoV	35° × 27°
iFoV	1.889 mrad
Minimum focus distance	3.2 cm (1.3 in.)
Hyperfocal distance	2.1 m (6.9 ft.)
Hyperfocal depth of field	1.1 m (3.6 ft.)

Environmental	
Operating temperature range	-10 to +40°C (+14 to +104°F)
Non-operating temperature range	-30 to +70°C (-22 to +158°F)
Temperature shock	5°C/min (41°F/min)
Humidity	5-95%

Certifications	
Compliance	http://www.dji.com/euro-compliance

DJI GO app	
Mobile device system requirements	<ul style="list-style-type: none">• iOS version 7.1 or later• Android version 4.1.2 or later
Supported mobile devices	<ul style="list-style-type: none">• iPhone 6 Plus• iPhone 6• iPhone 5S• iPad Air 2• iPad Mini 3• iPad Air• iPad Mini 2• iPad 4• Samsung Note 3• Samsung S5• Sony Z3 EXPERIA <p>NOTE: It is recommended that you use a tablet for the best experience</p>

Documentation and firmware	
Download link	http://tinyurl.com/z8esgtc

Warranty	
Warranty	http://www.dji.com/service#warranty_period



DJI Zenmuse XT 336 9mm (30Hz)

P/N: 80801-0100

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Global trade data	
HS Code	9032896085 (Zenmuse XT)
ECCN code	6A003.b.4.b. (Zenmuse XT)

Shipping information	
Packaging type	Cardboard box
List of contents	<ul style="list-style-type: none">Zenmuse XT thermal camera with stabilized gimbalFLIR Tools+

P/N: 81201-0100

Revision

46768

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Gimbal (Zenmuse XT)	
Name	Zenmuse XT
Dimensions	103 mm × 74 mm × 102 mm (4.1 in. × 2.9 in. × 4.0 in.)
Weight	270 g (0.60 lb.)
Angular vibration range	±0.03°
Mount	Detachable
Controllable range	<ul style="list-style-type: none"> Tilt: +35° to -90° Pan: ±320° Roll: ±15°
Mechanical range	<ul style="list-style-type: none"> Tilt: +45° to -135° Pan: ±320° Roll: ±45°
Maximum controllable speed	120°/s

Camera (Zenmuse XT)	
Thermal imager	Uncooled VOx microbolometer
FPA/digital video display formats	640 × 512 pixels
Analog video display formats	<ul style="list-style-type: none"> 720 × 480 pixels (NTSC) 720 × 576 pixels (PAL)
Pixel pitch	17 μm
Spectral band	7.5–13.5 μm
Frame rates	<ul style="list-style-type: none"> 30 Hz (NTSC) 25 Hz (PAL)
Sensitivity (NEΔT)	<50 mK at f/1.0
Accuracy	±20°C (±36°F)
Scene range (high gain)	-25 to +135°C (-13 to +275°F)
Scene range (low gain)	-40 to 550°C (-40 to +1022°F)
Spot meter	Temperatures measured in central 4 × 4 pixels
File storage	Micro SD card. 16 GB Class 10 included, up to 32 GB supported.
Data logging	<ul style="list-style-type: none"> 8-bit AGC + LUT video at camera frame rate packaged in either .MOV or .MP4 wrappers. 8-bit AGC + LUT still images in .JPG. 14-bit TIFF raw still images with FLIR-specified metadata.



DJI Zenmuse XT 640 9mm (30Hz)

P/N: 81201-0100

Revision

46768

Last modified

2017-12-07 14:05 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Image processing and display controls	
NTSC/PAL (field switchable)	Yes
Image optimization	Yes
Digital detail	Yes

Enhancement	
Polarity control (black hot/white hot)	Yes
Color and monochrome palettes (LUTs)	Yes
Digital zoom	2x, 4x, 8x

Lens model	
Focal length	9 mm
f number	f/1.4
FoV	69° × 56°
iFoV	1.889 mrad
Minimum focus distance	3.2 cm (1.3 in.)
Hyperfocal distance	2.1 m (6.9 ft.)
Hyperfocal depth of field	1.1 m (3.6 ft.)

Environmental	
Operating temperature range	-10 to +40°C (+14 to +104°F)
Non-operating temperature range	-30 to +70°C (-22 to +158°F)
Temperature shock	5°C/min (41°F/min)
Humidity	5-95%

Certifications	
Compliance	http://www.dji.com/euro-compliance

DJI GO app	
Mobile device system requirements	<ul style="list-style-type: none">• iOS version 7.1 or later• Android version 4.1.2 or later
Supported mobile devices	<ul style="list-style-type: none">• iPhone 6 Plus• iPhone 6• iPhone 5S• iPad Air 2• iPad Mini 3• iPad Air• iPad Mini 2• iPad 4• Samsung Note 3• Samsung S5• Sony Z3 EXPERIA <p>NOTE: It is recommended that you use a tablet for the best experience</p>

Documentation and firmware	
Download link	http://tinyurl.com/z8esgtc

Warranty	
Warranty	http://www.dji.com/service#warranty_period



DJI Zenmuse XT 640 9mm (30Hz)

P/N: 81201-0100

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Global trade data	
HS Code	9032896085 (Zenmuse XT)
ECCN code	6A003.b.4.b. (Zenmuse XT)

Shipping information	
Packaging type	Cardboard box
List of contents	<ul style="list-style-type: none">• Zenmuse XT thermal camera with stabilized gimbal• FLIR Tools+

P/N: 81301-0100

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Gimbal (Zenmuse XT)	
Name	Zenmuse XT
Dimensions	103 mm × 74 mm × 102 mm (4.1 in. × 2.9 in. × 4.0 in.)
Weight	270 g (0.60 lb.)
Angular vibration range	±0.03°
Mount	Detachable
Controllable range	<ul style="list-style-type: none"> Tilt: +35° to -90° Pan: ±320° Roll: ±15°
Mechanical range	<ul style="list-style-type: none"> Tilt: +45° to -135° Pan: ±320° Roll: ±45°
Maximum controllable speed	120°/s

Camera (Zenmuse XT)	
Thermal imager	Uncooled VOx microbolometer
FPA/digital video display formats	336 x 256 pixels
Analog video display formats	<ul style="list-style-type: none"> 720 × 480 pixels (NTSC) 720 × 576 pixels (PAL)
Pixel pitch	17 μm
Spectral band	7.5–13.5 μm
Frame rates	<ul style="list-style-type: none"> 7.5 Hz (NTSC) 8.3 Hz (PAL)
Sensitivity (NEΔT)	<50 mK at f/1.0
Accuracy	±20°C (±36°F)
Scene range (high gain)	-25 to +100°C (-13 to +212°F)
Scene range (low gain)	-40 to 550°C (-40 to +1022°F)
Spot meter	Temperatures measured in central 4 × 4 pixels
File storage	Micro SD card. 16 GB Class 10 included, up to 32 GB supported.
Data logging	<ul style="list-style-type: none"> 8-bit AGC + LUT video at camera frame rate packaged in either .MOV or .MP4 wrappers. 8-bit AGC + LUT still images in .JPG. 14-bit TIFF raw still images with FLIR-specified metadata.



DJI Zenmuse XT 336 9mm (9Hz)

P/N: 81301-0100

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Image processing and display controls	
NTSC/PAL (field switchable)	Yes
Image optimization	Yes
Digital detail	Yes

Enhancement	
Polarity control (black hot/white hot)	Yes
Color and monochrome palettes (LUTs)	Yes
Digital zoom	2x, 4x, 8x

Lens model	
Focal length	9 mm
f number	f/1.25
FoV	35° × 27°
iFoV	1.889 mrad
Minimum focus distance	3.2 cm (1.3 in.)
Hyperfocal distance	2.1 m (6.9 ft.)
Hyperfocal depth of field	1.1 m (3.6 ft.)

Environmental	
Operating temperature range	-10 to +40°C (+14 to +104°F)
Non-operating temperature range	-30 to +70°C (-22 to +158°F)
Temperature shock	5°C/min (41°F/min)
Humidity	5-95%

Certifications	
Compliance	http://www.dji.com/euro-compliance

DJI GO app	
Mobile device system requirements	<ul style="list-style-type: none">• iOS version 7.1 or later• Android version 4.1.2 or later
Supported mobile devices	<ul style="list-style-type: none">• iPhone 6 Plus• iPhone 6• iPhone 5S• iPad Air 2• iPad Mini 3• iPad Air• iPad Mini 2• iPad 4• Samsung Note 3• Samsung S5• Sony Z3 EXPERIA <p>NOTE: It is recommended that you use a tablet for the best experience</p>

Documentation and firmware	
Download link	http://tinyurl.com/z8esgtc

Warranty	
Warranty	http://www.dji.com/service#warranty_period



DJI Zenmuse XT 336 9mm (9Hz)

P/N: 81301-0100

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Global trade data	
HS Code	9032896085 (Zenmuse XT)
ECCN code	6A993.a (Zenmuse XT)

Shipping information	
Packaging type	Cardboard box
List of contents	<ul style="list-style-type: none">• Zenmuse XT thermal camera with stabilized gimbal• FLIR Tools+

P/N: 81701-0100

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Gimbal (Zenmuse XT)	
Name	Zenmuse XT
Dimensions	103 mm × 74 mm × 102 mm (4.1 in. × 2.9 in. × 4.0 in.)
Weight	270 g (0.60 lb.)
Angular vibration range	±0.03°
Mount	Detachable
Controllable range	<ul style="list-style-type: none"> Tilt: +35° to -90° Pan: ±320° Roll: ±15°
Mechanical range	<ul style="list-style-type: none"> Tilt: +45° to -135° Pan: ±320° Roll: ±45°
Maximum controllable speed	120°/s

Camera (Zenmuse XT)	
Thermal imager	Uncooled VOx microbolometer
FPA/digital video display formats	640 × 512 pixels
Analog video display formats	<ul style="list-style-type: none"> 720 × 480 pixels (NTSC) 720 × 576 pixels (PAL)
Pixel pitch	17 μm
Spectral band	7.5–13.5 μm
Frame rates	<ul style="list-style-type: none"> 7.5 Hz (NTSC) 8.3 Hz (PAL)
Sensitivity (NEΔT)	<50 mK at f/1.0
Accuracy	±20°C (±36°F)
Scene range (high gain)	-25 to +135°C (-13 to +275°F)
Scene range (low gain)	-40 to 550°C (-40 to +1022°F)
Spot meter	Temperatures measured in central 4 × 4 pixels
File storage	Micro SD card. 16 GB Class 10 included, up to 32 GB supported.
Data logging	<ul style="list-style-type: none"> 8-bit AGC + LUT video at camera frame rate packaged in either .MOV or .MP4 wrappers. 8-bit AGC + LUT still images in .JPG. 14-bit TIFF raw still images with FLIR-specified metadata.



DJI Zenmuse XT 640 9mm (9Hz)

P/N: 81701-0100

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Image processing and display controls	
NTSC/PAL (field switchable)	Yes
Image optimization	Yes
Digital detail	Yes

Enhancement	
Polarity control (black hot/white hot)	Yes
Color and monochrome palettes (LUTs)	Yes
Digital zoom	2x, 4x, 8x

Lens model	
Focal length	9 mm
f number	f/1.4
FoV	69° × 56°
iFoV	1.889 mrad
Minimum focus distance	3.2 cm (1.3 in.)
Hyperfocal distance	2.1 m (6.9 ft.)
Hyperfocal depth of field	1.1 m (3.6 ft.)

Environmental	
Operating temperature range	-10 to +40°C (+14 to +104°F)
Non-operating temperature range	-30 to +70°C (-22 to +158°F)
Temperature shock	5°C/min (41°F/min)
Humidity	5-95%

Certifications	
Compliance	http://www.dji.com/euro-compliance

DJI GO app	
Mobile device system requirements	<ul style="list-style-type: none">• iOS version 7.1 or later• Android version 4.1.2 or later
Supported mobile devices	<ul style="list-style-type: none">• iPhone 6 Plus• iPhone 6• iPhone 5S• iPad Air 2• iPad Mini 3• iPad Air• iPad Mini 2• iPad 4• Samsung Note 3• Samsung S5• Sony Z3 EXPERIA <p>NOTE: It is recommended that you use a tablet for the best experience</p>

Documentation and firmware	
Download link	http://tinyurl.com/z8esgtc

Warranty	
Warranty	http://www.dji.com/service#warranty_period



DJI Zenmuse XT 640 9mm (9Hz)

P/N: 81701-0100

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Website

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Customer support

<http://support.flir.com>

Global trade data	
HS Code	9032896085 (Zenmuse XT)
ECCN code	6A993.a (Zenmuse XT)

Shipping information	
Packaging type	Cardboard box
List of contents	<ul style="list-style-type: none">• Zenmuse XT thermal camera with stabilized gimbal• FLIR Tools+

P/N: 80801-1100

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Gimbal (Zenmuse XT)	
Name	Zenmuse XT
Dimensions	103 mm × 74 mm × 102 mm (4.1 in. × 2.9 in. × 4.0 in.)
Weight	270 g (0.60 lb.)
Angular vibration range	±0.03°
Mount	Detachable
Controllable range	<ul style="list-style-type: none"> Tilt: +35° to -90° Pan: ±320° Roll: ±15°
Mechanical range	<ul style="list-style-type: none"> Tilt: +45° to -135° Pan: ±320° Roll: ±45°
Maximum controllable speed	120°/s

Camera (Zenmuse XT)	
Thermal imager	Uncooled VOx microbolometer
FPA/digital video display formats	336 x 256 pixels
Analog video display formats	<ul style="list-style-type: none"> 720 × 480 pixels (NTSC) 720 × 576 pixels (PAL)
Pixel pitch	17 μm
Spectral band	7.5–13.5 μm
Frame rates	<ul style="list-style-type: none"> 30 Hz (NTSC) 25 Hz (PAL)
Sensitivity (NEΔT)	<50 mK at f/1.0
Accuracy	±5°C (±9°F)
Scene range (high gain)	-25 to +100°C (-13 to +212°F)
Scene range (low gain)	-40 to 550°C (-40 to +1022°F)
Measurement area	Temperatures measured in the full image
File storage	Micro SD card. 16 GB Class 10 included, up to 32 GB supported.
Data logging	<ul style="list-style-type: none"> 8-bit AGC + LUT video at camera frame rate packaged in either .MOV or .MP4 wrappers. 8-bit AGC + LUT still images in .JPG. 14-bit TIFF raw still images with FLIR-specified metadata.



DJI Zenmuse XT R 336 9mm (30Hz)

P/N: 80801-1100

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Image processing and display controls	
NTSC/PAL (field switchable)	Yes
Image optimization	Yes
Digital detail	Yes

Enhancement	
Polarity control (black hot/white hot)	Yes
Color and monochrome palettes (LUTs)	Yes
Digital zoom	2x, 4x, 8x

Lens model	
Focal length	9 mm
f number	f/1.25
FoV	35° × 27°
iFoV	1.889 mrad
Minimum focus distance	3.2 cm (1.3 in.)
Hyperfocal distance	2.1 m (6.9 ft.)
Hyperfocal depth of field	1.1 m (3.6 ft.)

Environmental	
Operating temperature range	-10 to +40°C (+14 to +104°F)
Non-operating temperature range	-30 to +70°C (-22 to +158°F)
Temperature shock	5°C/min (41°F/min)
Humidity	5-95%

Certifications	
Compliance	http://www.dji.com/euro-compliance

DJI GO app	
Mobile device system requirements	<ul style="list-style-type: none">• iOS version 7.1 or later• Android version 4.1.2 or later
Supported mobile devices	<ul style="list-style-type: none">• iPhone 6 Plus• iPhone 6• iPhone 5S• iPad Air 2• iPad Mini 3• iPad Air• iPad Mini 2• iPad 4• Samsung Note 3• Samsung S5• Sony Z3 EXPERIA <div style="border: 1px solid black; padding: 2px;">NOTE: It is recommended that you use a tablet for the best experience</div>

Documentation and firmware	
Download link	http://tinyurl.com/z8esgtc

Warranty	
Warranty	http://www.dji.com/service#warranty_period



DJI Zenmuse XT R 336 9mm (30Hz)

P/N: 80801-1100

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Global trade data	
HS Code	9032896085 (Zenmuse XT)
ECCN code	6A003.b.4.b. (Zenmuse XT)

Shipping information	
Packaging type	Cardboard box
List of contents	<ul style="list-style-type: none">Zenmuse XT thermal camera with stabilized gimbalFLIR Tools+

P/N: 81201-1100

Revision

46772

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Gimbal (Zenmuse XT)	
Name	Zenmuse XT
Dimensions	103 mm × 74 mm × 102 mm (4.1 in. × 2.9 in. × 4.0 in.)
Weight	270 g (0.60 lb.)
Angular vibration range	±0.03°
Mount	Detachable
Controllable range	<ul style="list-style-type: none"> Tilt: +35° to -90° Pan: ±320° Roll: ±15°
Mechanical range	<ul style="list-style-type: none"> Tilt: +45° to -135° Pan: ±320° Roll: ±45°
Maximum controllable speed	120°/s

Camera (Zenmuse XT)	
Thermal imager	Uncooled VOx microbolometer
FPA/digital video display formats	640 × 512 pixels
Analog video display formats	<ul style="list-style-type: none"> 720 × 480 pixels (NTSC) 720 × 576 pixels (PAL)
Pixel pitch	17 μm
Spectral band	7.5–13.5 μm
Frame rates	<ul style="list-style-type: none"> 30 Hz (NTSC) 25 Hz (PAL)
Sensitivity (NEΔT)	<50 mK at f/1.0
Accuracy	±5°C (±9°F)
Scene range (high gain)	-25 to +135°C (-13 to +275°F)
Scene range (low gain)	-40 to 550°C (-40 to +1022°F)
Measurement area	Temperatures measured in the full image
File storage	Micro SD card. 16 GB Class 10 included, up to 32 GB supported.
Data logging	<ul style="list-style-type: none"> 8-bit AGC + LUT video at camera frame rate packaged in either .MOV or .MP4 wrappers. 8-bit AGC + LUT still images in .JPG. 14-bit TIFF raw still images with FLIR-specified metadata.



DJI Zenmuse XT R 640 9mm (30Hz)

P/N: 81201-1100

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Image processing and display controls	
NTSC/PAL (field switchable)	Yes
Image optimization	Yes
Digital detail	Yes

Enhancement	
Polarity control (black hot/white hot)	Yes
Color and monochrome palettes (LUTs)	Yes
Digital zoom	2x, 4x, 8x

Lens model	
Focal length	9 mm
f number	f/1.4
FoV	69° × 56°
iFoV	1.889 mrad
Minimum focus distance	3.2 cm (1.3 in.)
Hyperfocal distance	2.1 m (6.9 ft.)
Hyperfocal depth of field	1.1 m (3.6 ft.)

Environmental	
Operating temperature range	-10 to +40°C (+14 to +104°F)
Non-operating temperature range	-30 to +70°C (-22 to +158°F)
Temperature shock	5°C/min (41°F/min)
Humidity	5-95%

Certifications	
Compliance	http://www.dji.com/euro-compliance

DJI GO app	
Mobile device system requirements	<ul style="list-style-type: none">• iOS version 7.1 or later• Android version 4.1.2 or later
Supported mobile devices	<ul style="list-style-type: none">• iPhone 6 Plus• iPhone 6• iPhone 5S• iPad Air 2• iPad Mini 3• iPad Air• iPad Mini 2• iPad 4• Samsung Note 3• Samsung S5• Sony Z3 EXPERIA <p>NOTE: It is recommended that you use a tablet for the best experience</p>

Documentation and firmware	
Download link	http://tinyurl.com/z8esgtc

Warranty	
Warranty	http://www.dji.com/service#warranty_period



DJI Zenmuse XT R 640 9mm (30Hz)

P/N: 81201-1100

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Global trade data	
HS Code	9032896085 (Zenmuse XT)
ECCN code	6A003.b.4.b. (Zenmuse XT)

Shipping information	
Packaging type	Cardboard box
List of contents	<ul style="list-style-type: none">Zenmuse XT thermal camera with stabilized gimbalFLIR Tools+

P/N: 81301-1100

Revision

46773

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Gimbal (Zenmuse XT)	
Name	Zenmuse XT
Dimensions	103 mm × 74 mm × 102 mm (4.1 in. × 2.9 in. × 4.0 in.)
Weight	270 g (0.60 lb.)
Angular vibration range	±0.03°
Mount	Detachable
Controllable range	<ul style="list-style-type: none"> Tilt: +35° to -90° Pan: ±320° Roll: ±15°
Mechanical range	<ul style="list-style-type: none"> Tilt: +45° to -135° Pan: ±320° Roll: ±45°
Maximum controllable speed	120°/s

Camera (Zenmuse XT)	
Thermal imager	Uncooled VOx microbolometer
FPA/digital video display formats	336 x 256 pixels
Analog video display formats	<ul style="list-style-type: none"> 720 × 480 pixels (NTSC) 720 × 576 pixels (PAL)
Pixel pitch	17 μm
Spectral band	7.5–13.5 μm
Frame rates	<ul style="list-style-type: none"> 7.5 Hz (NTSC) 8.3 Hz (PAL)
Sensitivity (NEΔT)	<50 mK at f/1.0
Accuracy	±5°C (±9°F)
Scene range (high gain)	-25 to +100°C (-13 to +212°F)
Scene range (low gain)	-40 to 550°C (-40 to +1022°F)
Measurement area	Temperatures measured in the full image
File storage	Micro SD card. 16 GB Class 10 included, up to 32 GB supported.
Data logging	<ul style="list-style-type: none"> 8-bit AGC + LUT video at camera frame rate packaged in either .MOV or .MP4 wrappers. 8-bit AGC + LUT still images in .JPG. 14-bit TIFF raw still images with FLIR-specified metadata.



DJI Zenmuse XT R 336 9mm (9Hz)

P/N: 81301-1100

Revision

46773

Last modified

2017-12-07 14:12 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Image processing and display controls	
NTSC/PAL (field switchable)	Yes
Image optimization	Yes
Digital detail	Yes

Enhancement	
Polarity control (black hot/white hot)	Yes
Color and monochrome palettes (LUTs)	Yes
Digital zoom	2x, 4x, 8x

Lens model	
Focal length	9 mm
f number	f/1.4
FoV	69° × 56°
iFoV	1.889 mrad
Minimum focus distance	3.2 cm (1.3 in.)
Hyperfocal distance	2.1 m (6.9 ft.)
Hyperfocal depth of field	1.1 m (3.6 ft.)

Environmental	
Operating temperature range	-10 to +40°C (+14 to +104°F)
Non-operating temperature range	-30 to +70°C (-22 to +158°F)
Temperature shock	5°C/min (41°F/min)
Humidity	5-95%

Certifications	
Compliance	http://www.dji.com/euro-compliance

DJI GO app	
Mobile device system requirements	<ul style="list-style-type: none">• iOS version 7.1 or later• Android version 4.1.2 or later
Supported mobile devices	<ul style="list-style-type: none">• iPhone 6 Plus• iPhone 6• iPhone 5S• iPad Air 2• iPad Mini 3• iPad Air• iPad Mini 2• iPad 4• Samsung Note 3• Samsung S5• Sony Z3 EXPERIA <div style="border: 1px solid black; padding: 2px;">NOTE: It is recommended that you use a tablet for the best experience</div>

Documentation and firmware	
Download link	http://tinyurl.com/z8esgtc

Warranty	
Warranty	http://www.dji.com/service#warranty_period



DJI Zenmuse XT R 336 9mm (9Hz)

P/N: 81301-1100

Revision

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Global trade data	
HS Code	9032896085 (Zenmuse XT)
ECCN code	6A993.a (Zenmuse XT)

Shipping information	
Packaging type	Cardboard box
List of contents	<ul style="list-style-type: none">• Zenmuse XT thermal camera with stabilized gimbal• FLIR Tools+

P/N: 81701-1100

Revision

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Website

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Customer support

<http://support.flir.com>



Gimbal (Zenmuse XT)	
Name	Zenmuse XT
Dimensions	103 mm × 74 mm × 102 mm (4.1 in. × 2.9 in. × 4.0 in.)
Weight	270 g (0.60 lb.)
Angular vibration range	±0.03°
Mount	Detachable
Controllable range	<ul style="list-style-type: none"> Tilt: +35° to -90° Pan: ±320° Roll: ±15°
Mechanical range	<ul style="list-style-type: none"> Tilt: +45° to -135° Pan: ±320° Roll: ±45°
Maximum controllable speed	120°/s

Camera (Zenmuse XT)	
Thermal imager	Uncooled VOx microbolometer
FPA/digital video display formats	640 × 512 pixels
Analog video display formats	<ul style="list-style-type: none"> 720 × 480 pixels (NTSC) 720 × 576 pixels (PAL)
Pixel pitch	17 μm
Spectral band	7.5–13.5 μm
Frame rates	<ul style="list-style-type: none"> 7.5 Hz (NTSC) 8.3 Hz (PAL)
Sensitivity (NEΔT)	<50 mK at f/1.0
Accuracy	±5°C (±9°F)
Scene range (high gain)	-25 to +135°C (-13 to +275°F)
Scene range (low gain)	-40 to 550°C (-40 to +1022°F)
Measurement area	Temperatures measured in the full image
File storage	Micro SD card. 16 GB Class 10 included, up to 32 GB supported.
Data logging	<ul style="list-style-type: none"> 8-bit AGC + LUT video at camera frame rate packaged in either .MOV or .MP4 wrappers. 8-bit AGC + LUT still images in .JPG. 14-bit TIFF raw still images with FLIR-specified metadata.



DJI Zenmuse XT R 640 9mm (9Hz)

P/N: 81701-1100

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Image processing and display controls	
NTSC/PAL (field switchable)	Yes
Image optimization	Yes
Digital detail	Yes

Enhancement	
Polarity control (black hot/white hot)	Yes
Color and monochrome palettes (LUTs)	Yes
Digital zoom	2x, 4x, 8x

Lens model	
Focal length	9 mm
f number	f/1.4
FoV	69° × 56°
iFoV	1.889 mrad
Minimum focus distance	3.2 cm (1.3 in.)
Hyperfocal distance	2.1 m (6.9 ft.)
Hyperfocal depth of field	1.1 m (3.6 ft.)

Environmental	
Operating temperature range	-10 to +40°C (+14 to +104°F)
Non-operating temperature range	-30 to +70°C (-22 to +158°F)
Temperature shock	5°C/min (41°F/min)
Humidity	5-95%

Certifications	
Compliance	http://www.dji.com/euro-compliance

DJI GO app	
Mobile device system requirements	<ul style="list-style-type: none">• iOS version 7.1 or later• Android version 4.1.2 or later
Supported mobile devices	<ul style="list-style-type: none">• iPhone 6 Plus• iPhone 6• iPhone 5S• iPad Air 2• iPad Mini 3• iPad Air• iPad Mini 2• iPad 4• Samsung Note 3• Samsung S5• Sony Z3 EXPERIA <div style="border: 1px solid black; padding: 2px;">NOTE: It is recommended that you use a tablet for the best experience</div>

Documentation and firmware	
Download link	http://tinyurl.com/z8esgtc

Warranty	
Warranty	http://www.dji.com/service#warranty_period



DJI Zenmuse XT R 640 9mm (9Hz)

P/N: 81701-1100

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Global trade data	
HS Code	9032896085 (Zenmuse XT)
ECCN code	6A993.a (Zenmuse XT)

Shipping information	
Packaging type	Cardboard box
List of contents	<ul style="list-style-type: none">• Zenmuse XT thermal camera with stabilized gimbal• FLIR Tools+

P/N: 75605-0500

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Gimbal (Zenmuse XT)	
Name	Zenmuse XT
Dimensions	103 mm × 74 mm × 102 mm (4.1 in. × 2.9 in. × 4.0 in.)
Weight	270 g (0.60 lb.)
Angular vibration range	±0.03°
Mount	Detachable
Controllable range	<ul style="list-style-type: none"> Tilt: +35° to -90° Pan: ±320° Roll: ±15°
Mechanical range	<ul style="list-style-type: none"> Tilt: +45° to -135° Pan: ±320° Roll: ±45°
Maximum controllable speed	120°/s

Camera (Zenmuse XT)	
Thermal imager	Uncooled VOx microbolometer
FPA/digital video display formats	640 × 512 pixels
Analog video display formats	<ul style="list-style-type: none"> 720 × 480 pixels (NTSC) 720 × 576 pixels (PAL)
Pixel pitch	17 μm
Spectral band	7.5–13.5 μm
Frame rates	<ul style="list-style-type: none"> 30 Hz (NTSC) 25 Hz (PAL)
Sensitivity (NEΔT)	<50 mK at f/1.0
Accuracy	±20°C (±36°F)
Scene range (high gain)	-25 to +135°C (-13 to +275°F)
Scene range (low gain)	-40 to 550°C (-40 to +1022°F)
Spot meter	Temperatures measured in central 4 × 4 pixels
File storage	Micro SD card. 16 GB Class 10 included, up to 32 GB supported.
Data logging	<ul style="list-style-type: none"> 8-bit AGC + LUT video at camera frame rate packaged in either .MOV or .MP4 wrappers. 8-bit AGC + LUT still images in .JPG. 14-bit TIFF raw still images with FLIR-specified metadata.



DJI Zenmuse XT 640 13mm (30Hz)

P/N: 75605-0500

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Image processing and display controls	
NTSC/PAL (field switchable)	Yes
Image optimization	Yes
Digital detail	Yes

Enhancement	
Polarity control (black hot/white hot)	Yes
Color and monochrome palettes (LUTs)	Yes
Digital zoom	2x, 4x, 8x

Lens model	
Focal length	13 mm
f number	f/1.25
FoV	45° × 37°
iFoV	1.308 mrad
Minimum focus distance	7.6 cm (3.0 in.)
Hyperfocal distance	4.4 m (14.4 ft.)
Hyperfocal depth of field	2.2 m (7.2 ft.)

Environmental	
Operating temperature range	-10 to +40°C (+14 to +104°F)
Non-operating temperature range	-30 to +70°C (-22 to +158°F)
Temperature shock	5°C/min (41°F/min)
Humidity	5-95%

Certifications	
Compliance	http://www.dji.com/euro-compliance

DJI GO app	
Mobile device system requirements	<ul style="list-style-type: none">• iOS version 7.1 or later• Android version 4.1.2 or later
Supported mobile devices	<ul style="list-style-type: none">• iPhone 6 Plus• iPhone 6• iPhone 5S• iPad Air 2• iPad Mini 3• iPad Air• iPad Mini 2• iPad 4• Samsung Note 3• Samsung S5• Sony Z3 EXPERIA <div style="border: 1px solid black; padding: 2px;">NOTE: It is recommended that you use a tablet for the best experience</div>

Documentation and firmware	
Download link	http://tinyurl.com/z8esgtc

Warranty	
Warranty	http://www.dji.com/service#warranty_period



DJI Zenmuse XT 640 13mm (30Hz)

P/N: 75605-0500

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Global trade data	
HS Code	9032896085 (Zenmuse XT)
ECCN code	6A003.b.4.b. (Zenmuse XT)

Shipping information	
Packaging type	Cardboard box
List of contents	<ul style="list-style-type: none">Zenmuse XT thermal camera with stabilized gimbalFLIR Tools+

P/N: 76505-0500

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Gimbal (Zenmuse XT)	
Name	Zenmuse XT
Dimensions	103 mm × 74 mm × 102 mm (4.1 in. × 2.9 in. × 4.0 in.)
Weight	270 g (0.60 lb.)
Angular vibration range	±0.03°
Mount	Detachable
Controllable range	<ul style="list-style-type: none"> Tilt: +35° to -90° Pan: ±320° Roll: ±15°
Mechanical range	<ul style="list-style-type: none"> Tilt: +45° to -135° Pan: ±320° Roll: ±45°
Maximum controllable speed	120°/s

Camera (Zenmuse XT)	
Thermal imager	Uncooled VOx microbolometer
FPA/digital video display formats	640 × 512 pixels
Analog video display formats	<ul style="list-style-type: none"> 720 × 480 pixels (NTSC) 720 × 576 pixels (PAL)
Pixel pitch	17 μm
Spectral band	7.5–13.5 μm
Frame rates	<ul style="list-style-type: none"> 7.5 Hz (NTSC) 8.3 Hz (PAL)
Sensitivity (NEΔT)	<50 mK at f/1.0
Accuracy	±20°C (±36°F)
Scene range (high gain)	-25 to +135°C (-13 to +275°F)
Scene range (low gain)	-40 to 550°C (-40 to +1022°F)
Spot meter	Temperatures measured in central 4 × 4 pixels
File storage	Micro SD card. 16 GB Class 10 included, up to 32 GB supported.
Data logging	<ul style="list-style-type: none"> 8-bit AGC + LUT video at camera frame rate packaged in either .MOV or .MP4 wrappers. 8-bit AGC + LUT still images in .JPG. 14-bit TIFF raw still images with FLIR-specified metadata.



DJI Zenmuse XT 640 13mm (9Hz)

P/N: 76505-0500

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Customer support

<http://support.flir.com>

Image processing and display controls	
NTSC/PAL (field switchable)	Yes
Image optimization	Yes
Digital detail	Yes

Enhancement	
Polarity control (black hot/white hot)	Yes
Color and monochrome palettes (LUTs)	Yes
Digital zoom	2x, 4x, 8x

Lens model	
Focal length	13 mm
f number	f/1.25
FoV	45° × 37°
iFoV	1.308 mrad
Minimum focus distance	7.6 cm (3.0 in.)
Hyperfocal distance	4.4 m (14.4 ft.)
Hyperfocal depth of field	2.2 m (7.2 ft.)

Environmental	
Operating temperature range	-10 to +40°C (+14 to +104°F)
Non-operating temperature range	-30 to +70°C (-22 to +158°F)
Temperature shock	5°C/min (41°F/min)
Humidity	5-95%

Certifications	
Compliance	http://www.dji.com/euro-compliance

DJI GO app	
Mobile device system requirements	<ul style="list-style-type: none">• iOS version 7.1 or later• Android version 4.1.2 or later
Supported mobile devices	<ul style="list-style-type: none">• iPhone 6 Plus• iPhone 6• iPhone 5S• iPad Air 2• iPad Mini 3• iPad Air• iPad Mini 2• iPad 4• Samsung Note 3• Samsung S5• Sony Z3 EXPERIA <div style="border: 1px solid black; padding: 2px;">NOTE: It is recommended that you use a tablet for the best experience</div>

Documentation and firmware	
Download link	http://tinyurl.com/z8esgtc

Warranty	
Warranty	http://www.dji.com/service#warranty_period



DJI Zenmuse XT 640 13mm (9Hz)

P/N: 76505-0500

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Website

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Customer support

<http://support.flir.com>

Global trade data	
HS Code	9032896085 (Zenmuse XT)
ECCN code	6A993.a (Zenmuse XT)

Shipping information	
Packaging type	Cardboard box
List of contents	<ul style="list-style-type: none">• Zenmuse XT thermal camera with stabilized gimbal• FLIR Tools+

P/N: 75605-1500

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Gimbal (Zenmuse XT)	
Name	Zenmuse XT
Dimensions	103 mm × 74 mm × 102 mm (4.1 in. × 2.9 in. × 4.0 in.)
Weight	270 g (0.60 lb.)
Angular vibration range	±0.03°
Mount	Detachable
Controllable range	<ul style="list-style-type: none"> Tilt: +35° to -90° Pan: ±320° Roll: ±15°
Mechanical range	<ul style="list-style-type: none"> Tilt: +45° to -135° Pan: ±320° Roll: ±45°
Maximum controllable speed	120°/s

Camera (Zenmuse XT)	
Thermal imager	Uncooled VOx microbolometer
FPA/digital video display formats	640 × 512 pixels
Analog video display formats	<ul style="list-style-type: none"> 720 × 480 pixels (NTSC) 720 × 576 pixels (PAL)
Pixel pitch	17 μm
Spectral band	7.5–13.5 μm
Frame rates	<ul style="list-style-type: none"> 30 Hz (NTSC) 25 Hz (PAL)
Sensitivity (NEΔT)	<50 mK at f/1.0
Accuracy	±5°C (±9°F)
Scene range (high gain)	-25 to +135°C (-13 to +275°F)
Scene range (low gain)	-40 to 550°C (-40 to +1022°F)
Measurement area	Temperatures measured in the full image
File storage	Micro SD card. 16 GB Class 10 included, up to 32 GB supported.
Data logging	<ul style="list-style-type: none"> 8-bit AGC + LUT video at camera frame rate packaged in either .MOV or .MP4 wrappers. 8-bit AGC + LUT still images in .JPG. 14-bit TIFF raw still images with FLIR-specified metadata.



DJI Zenmuse XT R 640 13mm (30Hz)

P/N: 75605-1500

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Image processing and display controls	
NTSC/PAL (field switchable)	Yes
Image optimization	Yes
Digital detail	Yes

Enhancement	
Polarity control (black hot/white hot)	Yes
Color and monochrome palettes (LUTs)	Yes
Digital zoom	2x, 4x, 8x

Lens model	
Focal length	13 mm
f number	f/1.25
FoV	45° × 37°
iFoV	1.308 mrad
Minimum focus distance	7.6 cm (3.0 in.)
Hyperfocal distance	4.4 m (14.4 ft.)
Hyperfocal depth of field	2.2 m (7.2 ft.)

Environmental	
Operating temperature range	-10 to +40°C (+14 to +104°F)
Non-operating temperature range	-30 to +70°C (-22 to +158°F)
Temperature shock	5°C/min (41°F/min)
Humidity	5-95%

Certifications	
Compliance	http://www.dji.com/euro-compliance

DJI GO app	
Mobile device system requirements	<ul style="list-style-type: none">• iOS version 7.1 or later• Android version 4.1.2 or later
Supported mobile devices	<ul style="list-style-type: none">• iPhone 6 Plus• iPhone 6• iPhone 5S• iPad Air 2• iPad Mini 3• iPad Air• iPad Mini 2• iPad 4• Samsung Note 3• Samsung S5• Sony Z3 EXPERIA <p>NOTE: It is recommended that you use a tablet for the best experience</p>

Documentation and firmware	
Download link	http://tinyurl.com/z8esgtc

Warranty	
Warranty	http://www.dji.com/service#warranty_period



DJI Zenmuse XT R 640 13mm (30Hz)

P/N: 75605-1500

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Global trade data	
HS Code	9032896085 (Zenmuse XT)
ECCN code	6A003.b.4.b. (Zenmuse XT)

Shipping information	
Packaging type	Cardboard box
List of contents	<ul style="list-style-type: none">• Zenmuse XT thermal camera with stabilized gimbal• FLIR Tools+

P/N: 76505-1500

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Gimbal (Zenmuse XT)	
Name	Zenmuse XT
Dimensions	103 mm × 74 mm × 102 mm (4.1 in. × 2.9 in. × 4.0 in.)
Weight	270 g (0.60 lb.)
Angular vibration range	±0.03°
Mount	Detachable
Controllable range	<ul style="list-style-type: none"> Tilt: +35° to -90° Pan: ±320° Roll: ±15°
Mechanical range	<ul style="list-style-type: none"> Tilt: +45° to -135° Pan: ±320° Roll: ±45°
Maximum controllable speed	120°/s

Camera (Zenmuse XT)	
Thermal imager	Uncooled VOx microbolometer
FPA/digital video display formats	640 × 512 pixels
Analog video display formats	<ul style="list-style-type: none"> 720 × 480 pixels (NTSC) 720 × 576 pixels (PAL)
Pixel pitch	17 μm
Spectral band	7.5–13.5 μm
Frame rates	<ul style="list-style-type: none"> 7.5 Hz (NTSC) 8.3 Hz (PAL)
Sensitivity (NEΔT)	<50 mK at f/1.0
Accuracy	±5°C (±9°F)
Scene range (high gain)	-25 to +135°C (-13 to +275°F)
Scene range (low gain)	-40 to 550°C (-40 to +1022°F)
Measurement area	Temperatures measured in the full image
File storage	Micro SD card. 16 GB Class 10 included, up to 32 GB supported.
Data logging	<ul style="list-style-type: none"> 8-bit AGC + LUT video at camera frame rate packaged in either .MOV or .MP4 wrappers. 8-bit AGC + LUT still images in .JPG. 14-bit TIFF raw still images with FLIR-specified metadata.



DJI Zenmuse XT R 640 13mm (9Hz)

P/N: 76505-1500

Revision

46756

Last modified

2017-12-07 13:50 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Image processing and display controls	
NTSC/PAL (field switchable)	Yes
Image optimization	Yes
Digital detail	Yes

Enhancement	
Polarity control (black hot/white hot)	Yes
Color and monochrome palettes (LUTs)	Yes
Digital zoom	2x, 4x, 8x

Lens model	
Focal length	13 mm
f number	f/1.25
FoV	45° × 37°
iFoV	1.308 mrad
Minimum focus distance	7.6 cm (3.0 in.)
Hyperfocal distance	4.4 m (14.4 ft.)
Hyperfocal depth of field	2.2 m (7.2 ft.)

Environmental	
Operating temperature range	-10 to +40°C (+14 to +104°F)
Non-operating temperature range	-30 to +70°C (-22 to +158°F)
Temperature shock	5°C/min (41°F/min)
Humidity	5-95%

Certifications	
Compliance	http://www.dji.com/euro-compliance

DJI GO app	
Mobile device system requirements	<ul style="list-style-type: none">• iOS version 7.1 or later• Android version 4.1.2 or later
Supported mobile devices	<ul style="list-style-type: none">• iPhone 6 Plus• iPhone 6• iPhone 5S• iPad Air 2• iPad Mini 3• iPad Air• iPad Mini 2• iPad 4• Samsung Note 3• Samsung S5• Sony Z3 EXPERIA <div style="border: 1px solid black; padding: 2px;">NOTE: It is recommended that you use a tablet for the best experience</div>

Documentation and firmware	
Download link	http://tinyurl.com/z8esgtc

Warranty	
Warranty	http://www.dji.com/service#warranty_period



DJI Zenmuse XT R 640 13mm (9Hz)

P/N: 76505-1500

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Global trade data	
HS Code	9032896085 (Zenmuse XT)
ECCN code	6A993.a (Zenmuse XT)

Shipping information	
Packaging type	Cardboard box
List of contents	<ul style="list-style-type: none">• Zenmuse XT thermal camera with stabilized gimbal• FLIR Tools+
EAN-13	7332558014578
UPC-12	845188016647

P/N: 76006-0600

Revision

46778

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Website

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Customer support

<http://support.flir.com>



Gimbal (Zenmuse XT)	
Name	Zenmuse XT
Dimensions	103 mm x 74 mm x 102 mm (17.2 in. x 17.8 in. x 11.9 in.)
Weight	270 g (0.60 lb.)
Angular vibration range	±0.03°
Mount	Detachable
Controllable range	<ul style="list-style-type: none"> Tilt: +35° to -90° Pan: ±320° Roll: ±15°
Mechanical range	<ul style="list-style-type: none"> Tilt: +45° to -135° Pan: ±320° Roll: ±45°
Maximum controllable speed	120°/s

Camera (Zenmuse XT)	
Thermal imager	Uncooled VOx microbolometer
FPA/digital video display formats	640 x 512 pixels
Analog video display formats	<ul style="list-style-type: none"> 720 x 480 pixels (NTSC) 720 x 576 pixels (PAL)
Pixel pitch	17 µm
Spectral band	7.5-13.5 µm
Frame rates	<ul style="list-style-type: none"> 30 Hz (NTSC) 25 Hz (PAL)
Sensitivity (NEΔT)	<50 mK at f/1.0
Accuracy	±20°C (±36°F)
Scene range (high gain)	-25 to +135°C (-13 to +275°F)
Scene range (low gain)	-40 to 550°C (-40 to +1022°F)
Spot meter	Temperatures measured in central 4 x 4 pixels
File storage	Micro SD card. 16 GB Class 10 included, up to 32 GB supported.
Data logging	<ul style="list-style-type: none"> 8-bit AGC + LUT video at camera frame rate packaged in either .MOV or .MP4 wrappers. 8-bit AGC + LUT still images in .JPG. 14-bit TIFF raw still images with FLIR-specified metadata.



DJI Zenmuse XT 640 19mm (30Hz)

P/N: 76006-0600

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Image processing and display controls	
NTSC/PAL (field switchable)	Yes
Image optimization	Yes
Digital detail	Yes

Enhancement	
Polarity control (black hot/white hot)	Yes
Color and monochrome palettes (LUTs)	Yes
Digital zoom	2x, 4x

Lens model	
Focal length	19 mm
f number	f/1.25
FoV	32° × 26°
iFoV	0.895 mrad
Minimum focus distance	15.3 cm (6.0 in.)
Hyperfocal distance	9.5 m (31.1 ft.)
Hyperfocal depth of field	4.8 m (15.8 ft.)

Environmental	
Operating temperature range	-10 to +40°C (+14 to +104°F)
Non-operating temperature range	-30 to +70°C (-22 to +158°F)
Temperature shock	5°C/min (41°F/min)
Humidity	5-95%

Certifications	
Compliance	http://www.dji.com/euro-compliance

DJI GO app	
Mobile device system requirements	<ul style="list-style-type: none">• iOS version 7.1 or later• Android version 4.1.2 or later
Supported mobile devices	<ul style="list-style-type: none">• iPhone 6 Plus• iPhone 6• iPhone 5S• iPad Air 2• iPad Mini 3• iPad Air• iPad Mini 2• iPad 4• Samsung Note 3• Samsung S5• Sony Z3 EXPERIA <div style="border: 1px solid black; padding: 2px;">NOTE: It is recommended that you use a tablet for the best experience</div>

Documentation and firmware	
Download link	http://tinyurl.com/z8esgtc

Warranty	
Warranty	http://www.dji.com/service#warranty_period



DJI Zenmuse XT 640 19mm (30Hz)

P/N: 76006-0600

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Global trade data	
HS Code	9032896085 (Zenmuse XT)
ECCN code	6A003.b.4.b. (Zenmuse XT)

Shipping information	
Packaging type	Cardboard box
List of contents	<ul style="list-style-type: none">• Zenmuse XT thermal camera with stabilized gimbal• FLIR Tools+

P/N: 76606-0600

Revision

46779

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Website

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Customer support

<http://support.flir.com>



Gimbal (Zenmuse XT)	
Name	Zenmuse XT
Dimensions	103 mm x 74 mm x 102 mm (17.2 in. x 17.8 in. x 11.9 in.)
Weight	270 g (0.60 lb.)
Angular vibration range	±0.03°
Mount	Detachable
Controllable range	<ul style="list-style-type: none"> Tilt: +35° to -90° Pan: ±320° Roll: ±15°
Mechanical range	<ul style="list-style-type: none"> Tilt: +45° to -135° Pan: ±320° Roll: ±45°
Maximum controllable speed	120°/s

Camera (Zenmuse XT)	
Thermal imager	Uncooled VOx microbolometer
FPA/digital video display formats	640 x 512 pixels
Analog video display formats	<ul style="list-style-type: none"> 720 x 480 pixels (NTSC) 720 x 576 pixels (PAL)
Pixel pitch	17 µm
Spectral band	7.5-13.5 µm
Frame rates	<ul style="list-style-type: none"> 7.5 Hz (NTSC) 8.3 Hz (PAL)
Sensitivity (NEΔT)	<50 mK at f/1.0
Accuracy	±20°C (±36°F)
Scene range (high gain)	-25 to +135°C (-13 to +275°F)
Scene range (low gain)	-40 to 550°C (-40 to +1022°F)
Spot meter	Temperatures measured in central 4 x 4 pixels
File storage	Micro SD card. 16 GB Class 10 included, up to 32 GB supported.
Data logging	<ul style="list-style-type: none"> 8-bit AGC + LUT video at camera frame rate packaged in either .MOV or .MP4 wrappers. 8-bit AGC + LUT still images in .JPG. 14-bit TIFF raw still images with FLIR-specified metadata.



DJI Zenmuse XT 640 19mm (9Hz)

P/N: 76606-0600

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Image processing and display controls	
NTSC/PAL (field switchable)	Yes
Image optimization	Yes
Digital detail	Yes

Enhancement	
Polarity control (black hot/white hot)	Yes
Color and monochrome palettes (LUTs)	Yes
Digital zoom	2x, 4x

Lens model	
Focal length	19 mm
f number	f/1.25
FoV	32° × 26°
iFoV	0.895 mrad
Minimum focus distance	15.3 cm (6.0 in.)
Hyperfocal distance	9.5 m (31.1 ft.)
Hyperfocal depth of field	4.8 m (15.8 ft.)

Environmental	
Operating temperature range	-10 to +40°C (+14 to +104°F)
Non-operating temperature range	-30 to +70°C (-22 to +158°F)
Temperature shock	5°C/min (41°F/min)
Humidity	5-95%

Certifications	
Compliance	http://www.dji.com/euro-compliance

DJI GO app	
Mobile device system requirements	<ul style="list-style-type: none">• iOS version 7.1 or later• Android version 4.1.2 or later
Supported mobile devices	<ul style="list-style-type: none">• iPhone 6 Plus• iPhone 6• iPhone 5S• iPad Air 2• iPad Mini 3• iPad Air• iPad Mini 2• iPad 4• Samsung Note 3• Samsung S5• Sony Z3 EXPERIA <div style="border: 1px solid black; padding: 2px;">NOTE: It is recommended that you use a tablet for the best experience</div>

Documentation and firmware	
Download link	http://tinyurl.com/z8esgtc

Warranty	
Warranty	http://www.dji.com/service#warranty_period



DJI Zenmuse XT 640 19mm (9Hz)

P/N: 76606-0600

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Global trade data	
HS Code	9032896085 (Zenmuse XT)
ECCN code	6A993.a (Zenmuse XT)

Shipping information	
Packaging type	Cardboard box
List of contents	<ul style="list-style-type: none">• Zenmuse XT thermal camera with stabilized gimbal• FLIR Tools+

P/N: 76006-1600

Revision

46780

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Website

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Customer support

<http://support.flir.com>



Gimbal (Zenmuse XT)	
Name	Zenmuse XT
Dimensions	103 mm x 74 mm x 102 mm (17.2 in. x 17.8 in. x 11.9 in.)
Weight	270 g (0.60 lb.)
Angular vibration range	±0.03°
Mount	Detachable
Controllable range	<ul style="list-style-type: none"> Tilt: +35° to -90° Pan: ±320° Roll: ±15°
Mechanical range	<ul style="list-style-type: none"> Tilt: +45° to -135° Pan: ±320° Roll: ±45°
Maximum controllable speed	120°/s

Camera (Zenmuse XT)	
Thermal imager	Uncooled VOx microbolometer
FPA/digital video display formats	640 x 512 pixels
Analog video display formats	<ul style="list-style-type: none"> 720 x 480 pixels (NTSC) 720 x 576 pixels (PAL)
Pixel pitch	17 µm
Spectral band	7.5-13.5 µm
Frame rates	<ul style="list-style-type: none"> 30 Hz (NTSC) 25 Hz (PAL)
Sensitivity (NEΔT)	<50 mK at f/1.0
Accuracy	±5°C (±9°F)
Scene range (high gain)	-25 to +135°C (-13 to +275°F)
Scene range (low gain)	-40 to 550°C (-40 to +1022°F)
Measurement area	Temperatures measured in the full image
File storage	Micro SD card. 16 GB Class 10 included, up to 32 GB supported.
Data logging	<ul style="list-style-type: none"> 8-bit AGC + LUT video at camera frame rate packaged in either .MOV or .MP4 wrappers. 8-bit AGC + LUT still images in .JPG. 14-bit TIFF raw still images with FLIR-specified metadata.



DJI Zenmuse XT R 640 19mm (30Hz)

P/N: 76006-1600

Revision

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Website

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Customer support

<http://support.flir.com>

Image processing and display controls	
NTSC/PAL (field switchable)	Yes
Image optimization	Yes
Digital detail	Yes

Enhancement	
Polarity control (black hot/white hot)	Yes
Color and monochrome palettes (LUTs)	Yes
Digital zoom	2x, 4x

Lens model	
Focal length	19 mm
f number	f/1.25
FoV	32° × 26°
iFoV	0.895 mrad
Minimum focus distance	15.3 cm (6.0 in.)
Hyperfocal distance	9.5 m (31.1 ft.)
Hyperfocal depth of field	4.8 m (15.8 ft.)

Environmental	
Operating temperature range	-10 to +40°C (+14 to +104°F)
Non-operating temperature range	-30 to +70°C (-22 to +158°F)
Temperature shock	5°C/min (41°F/min)
Humidity	5-95%

Certifications	
Compliance	http://www.dji.com/euro-compliance

DJI GO app	
Mobile device system requirements	<ul style="list-style-type: none">• iOS version 7.1 or later• Android version 4.1.2 or later
Supported mobile devices	<ul style="list-style-type: none">• iPhone 6 Plus• iPhone 6• iPhone 5S• iPad Air 2• iPad Mini 3• iPad Air• iPad Mini 2• iPad 4• Samsung Note 3• Samsung S5• Sony Z3 EXPERIA <p>NOTE: It is recommended that you use a tablet for the best experience</p>

Documentation and firmware	
Download link	http://tinyurl.com/z8esgtc

Warranty	
Warranty	http://www.dji.com/service#warranty_period



DJI Zenmuse XT R 640 19mm (30Hz)

P/N: 76006-1600

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Global trade data	
HS Code	9032896085 (Zenmuse XT)
ECCN code	6A003.b.4.b. (Zenmuse XT)

Shipping information	
Packaging type	Cardboard box
List of contents	<ul style="list-style-type: none">Zenmuse XT thermal camera with stabilized gimbalFLIR Tools+

P/N: 76606-1600

Revision

46781

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Website

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Customer support

<http://support.flir.com>



Gimbal (Zenmuse XT)	
Name	Zenmuse XT
Dimensions	103 mm x 74 mm x 102 mm (17.2 in. x 17.8 in. x 11.9 in.)
Weight	270 g (0.60 lb.)
Angular vibration range	±0.03°
Mount	Detachable
Controllable range	<ul style="list-style-type: none"> Tilt: +35° to -90° Pan: ±320° Roll: ±15°
Mechanical range	<ul style="list-style-type: none"> Tilt: +45° to -135° Pan: ±320° Roll: ±45°
Maximum controllable speed	120°/s

Camera (Zenmuse XT)	
Thermal imager	Uncooled VOx microbolometer
FPA/digital video display formats	640 x 512 pixels
Analog video display formats	<ul style="list-style-type: none"> 720 x 480 pixels (NTSC) 720 x 576 pixels (PAL)
Pixel pitch	17 µm
Spectral band	7.5-13.5 µm
Frame rates	<ul style="list-style-type: none"> 7.5 Hz (NTSC) 8.3 Hz (PAL)
Sensitivity (NEΔT)	<50 mK at f/1.0
Accuracy	±5°C (±9°F)
Scene range (high gain)	-25 to +135°C (-13 to +275°F)
Scene range (low gain)	-40 to 550°C (-40 to +1022°F)
Measurement area	Temperatures measured in the full image
File storage	Micro SD card. 16 GB Class 10 included, up to 32 GB supported.
Data logging	<ul style="list-style-type: none"> 8-bit AGC + LUT video at camera frame rate packaged in either .MOV or .MP4 wrappers. 8-bit AGC + LUT still images in .JPG. 14-bit TIFF raw still images with FLIR-specified metadata.



DJI Zenmuse XT R 640 19mm (9Hz)

P/N: 76606-1600

Revision

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Website

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Customer support

<http://support.flir.com>

Image processing and display controls	
NTSC/PAL (field switchable)	Yes
Image optimization	Yes
Digital detail	Yes

Enhancement	
Polarity control (black hot/white hot)	Yes
Color and monochrome palettes (LUTs)	Yes
Digital zoom	2x, 4x

Lens model	
Focal length	19 mm
f number	f/1.25
FoV	32° × 26°
iFoV	0.895 mrad
Minimum focus distance	15.3 cm (6.0 in.)
Hyperfocal distance	9.5 m (31.1 ft.)
Hyperfocal depth of field	4.8 m (15.8 ft.)

Environmental	
Operating temperature range	-10 to +40°C (+14 to +104°F)
Non-operating temperature range	-30 to +70°C (-22 to +158°F)
Temperature shock	5°C/min (41°F/min)
Humidity	5-95%

Certifications	
Compliance	http://www.dji.com/euro-compliance

DJI GO app	
Mobile device system requirements	<ul style="list-style-type: none">• iOS version 7.1 or later• Android version 4.1.2 or later
Supported mobile devices	<ul style="list-style-type: none">• iPhone 6 Plus• iPhone 6• iPhone 5S• iPad Air 2• iPad Mini 3• iPad Air• iPad Mini 2• iPad 4• Samsung Note 3• Samsung S5• Sony Z3 EXPERIA <p>NOTE: It is recommended that you use a tablet for the best experience</p>

Documentation and firmware	
Download link	http://tinyurl.com/z8esgtc

Warranty	
Warranty	http://www.dji.com/service#warranty_period



DJI Zenmuse XT R 640 19mm (9Hz)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Global trade data	
HS Code	9032896085 (Zenmuse XT)
ECCN code	6A993.a (Zenmuse XT)

Shipping information	
Packaging type	Cardboard box
List of contents	<ul style="list-style-type: none">• Zenmuse XT thermal camera with stabilized gimbal• FLIR Tools+

P/N: 75503-0300

Revision

46782

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Gimbal (Zenmuse XT)	
Name	Zenmuse XT
Dimensions	103 mm × 74 mm × 102 mm (4.1 in. × 2.9 in. × 4.0 in.)
Weight	270 g (0.60 lb.)
Angular vibration range	±0.03°
Mount	Detachable
Controllable range	<ul style="list-style-type: none"> Tilt: +35° to -90° Pan: ±320° Roll: ±15°
Mechanical range	<ul style="list-style-type: none"> Tilt: +45° to -135° Pan: ±320° Roll: ±45°
Maximum controllable speed	120°/s

Camera (Zenmuse XT)	
Thermal imager	Uncooled VOx microbolometer
FPA/digital video display formats	336 × 256 pixels
Analog video display formats	<ul style="list-style-type: none"> 720 × 480 pixels (NTSC) 720 × 576 pixels (PAL)
Pixel pitch	17 μm
Spectral band	7.5–13.5 μm
Frame rates	<ul style="list-style-type: none"> 30/60 Hz (NTSC) 25/50 Hz (PAL)
Sensitivity (NEΔT)	<50 mK at f/1.0
Accuracy	±20°C (±36°F)
Scene range (high gain)	-25 to +100°C (-13 to +212°F)
Scene range (low gain)	-40 to +550°C (-40 to +1022°F)
Spot meter	Temperatures measured in central 4 × 4 pixels
File storage	Micro SD card. 16 GB Class 10 included, up to 32 GB supported.
Data logging	<ul style="list-style-type: none"> 8-bit AGC + LUT video at camera frame rate packaged in either .MOV or .MP4 wrappers. 8-bit AGC + LUT still images in .JPG. 14-bit TIFF raw still images with FLIR-specified metadata.



DJI Zenmuse XT 336 6.8mm (30 Hz)

P/N: 75503-0300

Revision

46782

Last modified

2017-12-07 14:24 UTC+1

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Image processing and display controls	
NTSC/PAL (field switchable)	Yes
Image optimization	Yes
Digital detail	Yes

Enhancement	
Polarity control (black hot/white hot)	Yes
Color and monochrome palettes (LUTs)	Yes
Digital zoom	2x, 4x, 8x

Lens model	
Focal length	6.8 mm
f number	f/1.4
FoV	49.1° × 37.4°
iFoV	2.519 mrad
Minimum focus distance	2.3 cm (0.9 in.)
Hyperfocal distance	1.2 m (3.9 ft.)
Hyperfocal depth of field	0.6 m (2.0 ft.)

Environmental	
Operating temperature range	-10 to +40°C (+14 to +104°F)
Non-operating temperature range	-30 to +70°C (-22 to +158°F)
Temperature shock	5°C/min (41°F/min)
Humidity	5-95%

Certifications	
Compliance	http://www.dji.com/euro-compliance

DJI GO app	
Mobile device system requirements	<ul style="list-style-type: none">• iOS version 7.1 or later• Android version 4.1.2 or later
Supported mobile devices	<ul style="list-style-type: none">• iPhone 6 Plus• iPhone 6• iPhone 5S• iPad Air 2• iPad Mini 3• iPad Air• iPad Mini 2• iPad 4• Samsung Note 3• Samsung S5• Sony Z3 EXPERIA <p>NOTE: It is recommended that you use a tablet for the best experience</p>

Documentation and firmware	
Download link	http://tinyurl.com/z8esgtc

Warranty	
Warranty	http://www.dji.com/service#warranty_period



DJI Zenmuse XT 336 6.8mm (30 Hz)

P/N: 75503-0300

Revision

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Website

<http://www.flir.com>

Customer support

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Global trade data	
HS Code	9032896085 (Zenmuse XT)
ECCN code	6A003.b.4.b. (Zenmuse XT)

Shipping information	
Packaging type	Cardboard box
List of contents	<ul style="list-style-type: none">• Zenmuse XT thermal camera with stabilized gimbal• FLIR Tools+

P/N: 76403-0300

Revision

46783

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Website

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Customer support

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Gimbal (Zenmuse XT)	
Name	Zenmuse XT
Dimensions	103 mm × 74 mm × 102 mm (4.1 in. × 2.9 in. × 4.0 in.)
Weight	270 g (0.60 lb.)
Angular vibration range	±0.03°
Mount	Detachable
Controllable range	<ul style="list-style-type: none"> Tilt: +35° to -90° Pan: ±320° Roll: ±15°
Mechanical range	<ul style="list-style-type: none"> Tilt: +45° to -135° Pan: ±320° Roll: ±45°
Maximum controllable speed	120°/s

Camera (Zenmuse XT)	
Thermal imager	Uncooled VOx microbolometer
FPA/digital video display formats	336 × 256 pixels
Analog video display formats	<ul style="list-style-type: none"> 720 × 480 pixels (NTSC) 720 × 576 pixels (PAL)
Pixel pitch	17 μm
Spectral band	7.5–13.5 μm
Frame rates	<ul style="list-style-type: none"> 7.5 Hz (NTSC) 8.3 Hz (PAL)
Sensitivity (NEΔT)	<50 mK at f/1.0
Accuracy	±20°C (±36°F)
Scene range (high gain)	-25 to +100°C (-13 to +212°F)
Scene range (low gain)	-40 to +550°C (-40 to +1022°F)
Spot meter	Temperatures measured in central 4 × 4 pixels
File storage	Micro SD card. 16 GB Class 10 included, up to 32 GB supported.
Data logging	<ul style="list-style-type: none"> 8-bit AGC + LUT video at camera frame rate packaged in either .MOV or .MP4 wrappers. 8-bit AGC + LUT still images in .JPG. 14-bit TIFF raw still images with FLIR-specified metadata.



DJI Zenmuse XT 336 6.8mm (9Hz)

P/N: 76403-0300

Revision

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Website

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Customer support

<http://support.flir.com>

Image processing and display controls	
NTSC/PAL (field switchable)	Yes
Image optimization	Yes
Digital detail	Yes

Enhancement	
Polarity control (black hot/white hot)	Yes
Color and monochrome palettes (LUTs)	Yes
Digital zoom	2x, 4x, 8x

Lens model	
Focal length	6.8 mm
f number	f/1.4
FoV	49.1° × 37.4°
iFoV	2.519 mrad
Minimum focus distance	2.3 cm (0.9 in.)
Hyperfocal distance	1.2 m (3.9 ft.)
Hyperfocal depth of field	0.6 m (2.0 ft.)

Environmental	
Operating temperature range	-10 to +40°C (+14 to +104°F)
Non-operating temperature range	-30 to +70°C (-22 to +158°F)
Temperature shock	5°C/min (41°F/min)
Humidity	5-95%

Certifications	
Compliance	http://www.dji.com/euro-compliance

DJI GO app	
Mobile device system requirements	<ul style="list-style-type: none">• iOS version 7.1 or later• Android version 4.1.2 or later
Supported mobile devices	<ul style="list-style-type: none">• iPhone 6 Plus• iPhone 6• iPhone 5S• iPad Air 2• iPad Mini 3• iPad Air• iPad Mini 2• iPad 4• Samsung Note 3• Samsung S5• Sony Z3 EXPERIA <p>NOTE: It is recommended that you use a tablet for the best experience</p>

Documentation and firmware	
Download link	http://tinyurl.com/z8esgtc

Warranty	
Warranty	http://www.dji.com/service#warranty_period



DJI Zenmuse XT 336 6.8mm (9Hz)

P/N: 76403-0300

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Website

<http://www.flir.com>

Customer support

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Global trade data	
HS Code	9032896085 (Zenmuse XT)
ECCN code	6A993.a (Zenmuse XT)

Shipping information	
Packaging type	Cardboard box
List of contents	<ul style="list-style-type: none">• Zenmuse XT thermal camera with stabilized gimbal• FLIR Tools+

P/N: 83301-1101

Revision

46066

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Website

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Overview	
Thermal imager	Uncooled VOx microbolometer
Spectral band	7.5–13.5 μm
Thermal sensitivity	<50 mK
Thermal sensor resolution	336 × 256
Thermal lens	9 mm: 35° × 27°
Thermal frame rate	30 Hz
Visual sensor resolution	4000 × 3000
Visual camera field of view	56° × 45°

Radiometry	
Measurement accuracy	±5°C or 5% of readings in the –25 to +135°C range ±20°C or 20% of readings in the –40 to +550°C range

Physical attributes	
Size (width × depth × height)	85 mm × 81.3 mm × 68.5 mm (3.35 in. × 3.20 in. × 2.70 in.)
Weight	325 g (11.46 oz.)

Image processing and display controls	
Imaging modes	Infrared only, visual only, picture in picture (infrared in visual)
MSX image enhancement	Yes
Multiple color palettes	Yes: adjustable in app and via PWM

IMU sensor	
GPS	Yes: GPS, GLONAS
Other sensors	Accelerometer, gyroscope, magnetometer, barometer

Interfaces	
USB 3.0	Power in, USB mass storage
10-pin accessory port	Power in, analog video out, PWM, MAVLink, frame sync out
Micro-HDMI	Digital video out
Input voltage	5.5–26.0 V DC (10-pin JST port)
	5.0 V (USB-C port)



FLIR Duo Pro R 336 35deg/9mm

P/N: 83301-1101

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Interfaces	
Power dissipation (average)	12 W
Remote control	Yes: PWM (three channels), MAVLink
MAVLink interface	Yes
Digital video output	1080p60, 1080p30, 720p60
Mounting features	1/4"-20 TPI tripod mounts (quantity 2, bottom surface)

Environmental	
Operating temperature range	-20 to +50°C
Storage temperature range	-20 to +60°C
Operational altitude	+11 600 m (+38 000 feet)

P/N: 83302-1201

Revision

46067

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Website

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Overview	
Thermal imager	Uncooled VOx microbolometer
Spectral band	7.5–13.5 μm
Thermal sensitivity	<50 mK
Thermal sensor resolution	336 × 256
Thermal lens	13 mm: 25° × 19°
Thermal frame rate	30 Hz
Visual sensor resolution	4000 × 3000
Visual camera field of view	56° × 45°

Radiometry	
Measurement accuracy	±5°C or 5% of readings in the –25 to +135°C range ±20°C or 20% of readings in the –40 to +550°C range

Physical attributes	
Size (width × depth × height)	85 mm × 81.3 mm × 68.5 mm (3.35 in. × 3.20 in. × 2.70 in.)
Weight	325 g (11.46 oz.)

Image processing and display controls	
Imaging modes	Infrared only, visual only, picture in picture (infrared in visual)
MSX image enhancement	Yes
Multiple color palettes	Yes: adjustable in app and via PWM

IMU sensor	
GPS	Yes: GPS, GLONAS
Other sensors	Accelerometer, gyroscope, magnetometer, barometer

Interfaces	
USB 3.0	Power in, USB mass storage
10-pin accessory port	Power in, analog video out, PWM, MAVLink, frame sync out
Micro-HDMI	Digital video out
Input voltage	5.5–26.0 V DC (10-pin JST port)
	5.0 V (USB-C port)



FLIR Duo Pro R 336 25deg/13mm

P/N: 83302-1201

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Interfaces	
Power dissipation (average)	12 W
Remote control	Yes: PWM (three channels), MAVLink
MAVLink interface	Yes
Digital video output	1080p60, 1080p30, 720p60
Mounting features	1/4"-20 TPI tripod mounts (quantity 2, bottom surface)

Environmental	
Operating temperature range	-20 to +50°C
Storage temperature range	-20 to +60°C
Operational altitude	+11 600 m (+38 000 feet)

P/N: 83303-1301

Revision

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Overview	
Thermal imager	Uncooled VOx microbolometer
Spectral band	7.5–13.5 μm
Thermal sensitivity	<50 mK
Thermal sensor resolution	336 × 256
Thermal lens	19 mm: 17° × 13°
Thermal frame rate	30 Hz
Visual sensor resolution	4000 × 3000
Visual camera field of view	56° × 45°

Radiometry	
Measurement accuracy	±5°C or 5% of readings in the –25 to +135°C range ±20°C or 20% of readings in the –40 to +550°C range

Physical attributes	
Size (width × depth × height)	85 mm × 81.3 mm × 68.5 mm (3.35 in. × 3.20 in. × 2.70 in.)
Weight	325 g (11.46 oz.)

Image processing and display controls	
Imaging modes	Infrared only, visual only, picture in picture (infrared in visual)
MSX image enhancement	Yes
Multiple color palettes	Yes: adjustable in app and via PWM

IMU sensor	
GPS	Yes: GPS, GLONAS
Other sensors	Accelerometer, gyroscope, magnetometer, barometer

Interfaces	
USB 3.0	Power in, USB mass storage
10-pin accessory port	Power in, analog video out, PWM, MAVLink, frame sync out
Micro-HDMI	Digital video out
Input voltage	5.5–26.0 V DC (10-pin JST port)
	5.0 V (USB-C port)



FLIR Duo Pro R 336 17deg/19mm

P/N: 83303-1301

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Interfaces	
Power dissipation (average)	12 W
Remote control	Yes: PWM (three channels), MAVLink
MAVLink interface	Yes
Digital video output	1080p60, 1080p30, 720p60
Mounting features	1/4"-20 TPI tripod mounts (quantity 2, bottom surface)

Environmental	
Operating temperature range	-20 to +50°C
Storage temperature range	-20 to +60°C
Operational altitude	+11 600 m (+38 000 feet)

P/N: 83402-1201

Revision

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Website

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Customer support

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Overview	
Thermal imager	Uncooled VOx microbolometer
Spectral band	7.5–13.5 μm
Thermal sensitivity	<50 mK
Thermal sensor resolution	640 × 512
Thermal lens	13 mm: 45° × 37°
Thermal frame rate	30 Hz
Visual sensor resolution	4000 × 3000
Visual camera field of view	56° × 45°

Radiometry	
Measurement accuracy	±5°C or 5% of readings in the –25 to +135°C range ±20°C or 20% of readings in the –40 to +550°C range

Physical attributes	
Size (width × depth × height)	85 mm × 81.3 mm × 68.5 mm (3.35 in. × 3.20 in. × 2.70 in.)
Weight	325 g (11.46 oz.)

Image processing and display controls	
Imaging modes	Infrared only, visual only, picture in picture (infrared in visual)
MSX image enhancement	Yes
Multiple color palettes	Yes: adjustable in app and via PWM

IMU sensor	
GPS	Yes: GPS, GLONAS
Other sensors	Accelerometer, gyroscope, magnetometer, barometer

Interfaces	
USB 3.0	Power in, USB mass storage
10-pin accessory port	Power in, analog video out, PWM, MAVLink, frame sync out
Micro-HDMI	Digital video out
Input voltage	5.5–26.0 V DC (10-pin JST port)
	5.0 V (USB-C port)



FLIR Duo Pro R 640 45deg/13mm

P/N: 83402-1201

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Interfaces	
Power dissipation (average)	12 W
Remote control	Yes: PWM (three channels), MAVLink
MAVLink interface	Yes
Digital video output	1080p60, 1080p30, 720p60
Mounting features	1/4"-20 TPI tripod mounts (quantity 2, bottom surface)

Environmental	
Operating temperature range	-20 to +50°C
Storage temperature range	-20 to +60°C
Operational altitude	+11 600 m (+38 000 feet)

P/N: 83403-1301

Revision

46070

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2017-10-30 10:57 UTC+1

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Website

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Customer support

<http://support.flir.com>



Overview	
Thermal imager	Uncooled VOx microbolometer
Spectral band	7.5–13.5 μm
Thermal sensitivity	< 50mK
Thermal sensor resolution	640 × 512
Thermal lens	19 mm: 32° × 26°
Thermal frame rate	30 Hz
Visual sensor resolution	4000 × 3000
Visual camera field of view	56° × 45°

Radiometry	
Measurement accuracy	±5°C or 5% of readings in the –25 to +135°C range ±20°C or 20% of readings in the –40 to +550°C range

Physical attributes	
Size (width × depth × height)	85 mm × 81.3 mm × 68.5 mm (3.35 in. × 3.20 in. × 2.70 in.)
Weight	325 g (11.46 oz.)

Image processing and display controls	
Imaging modes	Infrared only, visual only, picture in picture (infrared in visual)
MSX image enhancement	Yes
Multiple color palettes	Yes: adjustable in app and via PWM

IMU sensor	
GPS	Yes: GPS, GLONAS
Other sensors	Accelerometer, gyroscope, magnetometer, barometer

Interfaces	
USB 3.0	Power in, USB mass storage
10-pin accessory port	Power in, analog video out, PWM, MAVLink, frame sync out
Micro-HDMI	Digital video out
Input voltage	5.5–26.0 V DC (10-pin JST port)
	5.0 V (USB-C port)



FLIR Duo Pro R 640 32deg/19mm

P/N: 83403-1301

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Interfaces	
Power dissipation (average)	12 W
Remote control	Yes: PWM (three channels), MAVLink
MAVLink interface	Yes
Digital video output	1080p60, 1080p30, 720p60
Mounting features	1/4"-20 TPI tripod mounts (quantity 2, bottom surface)

Environmental	
Operating temperature range	-20 to +50°C
Storage temperature range	-20 to +60°C
Operational altitude	+11 600 m (+38 000 feet)

P/N: 83404-1401

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Overview	
Thermal imager	Uncooled VOx microbolometer
Spectral band	7.5–13.5 μm
Thermal sensitivity	<50 mK
Thermal sensor resolution	640 × 512
Thermal lens	25 mm: 25° × 20°
Thermal frame rate	30 Hz
Visual sensor resolution	4000 × 3000
Visual camera field of view	56° × 45°

Radiometry	
Measurement accuracy	±5°C or 5% of readings in the –25 to +135°C range ±20°C or 20% of readings in the –40 to +550°C range

Physical Attributes	
Size (width × depth × height)	85 x 86.5 x 68.5 mm
Weight	375 g (13.22 oz.)

Image processing and display controls	
Imaging modes	Infrared only, visual only, picture in picture (infrared in visual)
MSX image enhancement	Yes
Multiple color palettes	Yes: adjustable in app and via PWM

IMU sensor	
GPS	Yes: GPS, GLONAS
Other sensors	Accelerometer, gyroscope, magnetometer, barometer

Interfaces	
USB 3.0	Power in, USB mass storage
10-pin accessory port	Power in, analog video out, PWM, MAVLink, frame sync out
Micro-HDMI	Digital video out
Input voltage	5.5–26.0 V DC (10-pin JST port)
	5.0 V (USB-C port)
Power dissipation (average)	12 W



FLIR Duo Pro R 640 25deg/25mm

P/N: 83404-1401

Revision

46071

Last modified

2017-10-30 10:58 UTC+1

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Interfaces	
Remote control	Yes: PWM (three channels), MAVLink
MAVLink interface	Yes
Digital video output	1080p60, 1080p30, 720p60
Mounting features	1/4"-20 TPI tripod mounts (quantity 2, bottom surface)

Environmental	
Operating temperature range	-20 to +50°C
Storage temperature range	-20 to +60°C
Operational altitude	+11 600 m (+38 000 feet)

FLIR UAS Aerial Kits

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P/N: 75604-0404

Revision

38391

Last modified

2016-11-18 09:01 UTC+1

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Aircraft	
Model	Inspire 1 – T600
Weight (battery included)	2935 g (6.471 lb.)
Hovering accuracy (P mode)	<ul style="list-style-type: none"> Vertical: 0.5 m (1.6 ft.) Horizontal: 2.5 m (8.2 ft.)
Maximum angular velocity	<ul style="list-style-type: none"> Pitch: 300°/s Yaw: 150°/s
Maximum tilt angle	35°
Maximum ascent speed	5 m/s (16 ft./s)
Maximum descent speed	4 m/s (13 ft./s)
Maximum speed	22 m/s (72 ft./s) (ATTI mode, no wind)
Maximum service ceiling above sea level	4500 m (14 700 ft.) (software altitude limit: 120 m (390 ft.) above takeoff point)
Maximum wind speed resistance	10 m/s (32 ft./s)
Maximum flight time	Approximately 18 minutes
Motor model	DJI 3510
Propeller model	DJI 1345T
Indoor hovering	Enabled by default
Operating temperature range	-10 to +40°C (+14 to +104°F)
Diagonal distance	559–581 mm (22.0–22.8 in.)
Dimensions	438 mm × 451 mm × 301 mm (17.2 in. × 17.8 in. × 11.9 in.)

Gimbal (Zenmuse XT)	
Name	Zenmuse XT
Dimensions	103 mm × 74 mm × 102 mm (4.1 in. × 2.9 in. × 4.0 in.)
Weight	270 g (0.60 lb.)
Angular vibration range	±0.03°
Mount	Detachable
Controllable range	<ul style="list-style-type: none"> Tilt: +35° to -90° Pan: ±320° Roll: ±15°
Mechanical range	<ul style="list-style-type: none"> Tilt: +45° to -135° Pan: ±320° Roll: ±45°
Maximum controllable speed	120°/s



FLIR Aerial Commercial Building Inspector Kit (30 Hz)

P/N: 75604-0404

Revision

38391

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Website

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Customer support

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Gimbal (Zenmuse X3)	
Model	Zenmuse X3
Output power (with camera)	<ul style="list-style-type: none"> Static: 9 W In motion: 11 W
Operating current	<ul style="list-style-type: none"> Station: 750 mA Motion: 900 mA
Angular vibration range	±0.03°
Mounting	Detachable
Controllable range	<ul style="list-style-type: none"> Pitch: -90° to +30° Pan: ±320°
Mechanical range	<ul style="list-style-type: none"> Pitch: -125° to +45° Pan: ±330°
Max. controllable speed	<ul style="list-style-type: none"> Pitch: 120°/s Pan: 180°/s

Camera (Zenmuse XT)	
Thermal imager	Uncooled VOx microbolometer
FPA/digital video display formats	640 × 512 pixels
Analog video display formats	<ul style="list-style-type: none"> 720 × 480 pixels (NTSC) 720 × 576 pixels (PAL)
Pixel pitch	17 μm
Spectral band	7.5–13.5 μm
Frame rates	<ul style="list-style-type: none"> 30 Hz (NTSC) 25 Hz (PAL)
Sensitivity (NEΔT)	<50 mK at f/1.0
Accuracy	±20°C (±36°F)
Scene range (high gain)	-25 to +135°C (-13 to +275°F)
Scene range (low gain)	-40 to 550°C (-40 to +1022°F)
Spot meter	Temperatures measured in central 4 × 4 pixels
File storage	Micro SD card. 16 GB Class 10 included, up to 32 GB supported.
Data logging	<ul style="list-style-type: none"> 8-bit AGC + LUT video at camera frame rate packaged in either .MOV or .MP4 wrappers. 8-bit AGC + LUT still images in .JPG. 14-bit TIFF raw still images with FLIR-specified metadata.

Camera (Zenmuse X3)	
Name	X3
Model	FC350
Total pixels	12.76 Mpixel
Effective pixels	12.4 Mpixel
Image max. size	4000 × 3000
ISO range	<ul style="list-style-type: none"> 100–3200 (video) 100–1600 (photo)
Electronic shutter speed	8 s to 1/8000 s
FOV (field of view)	94°
CMOS	Sony EXMOR 1/2.3"



FLIR Aerial Commercial Building Inspector Kit (30 Hz)

P/N: 75604-0404

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Website

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Customer support

<http://support.flir.com>

Camera (Zemuse X3)	
Lens	<ul style="list-style-type: none">• 20 mm (35 mm format equivalent) f/2.8 focus at ∞• 9 elements in 9 groups• Anti-distortion
Still photography modes	<ul style="list-style-type: none">• Single shoot• Burst shooting: 3/5/7 frames• Auto exposure bracketing (AEB): 3/5 bracketed frames at 0.7 EV bias• Time-lapse
Video recording modes	<ul style="list-style-type: none">• UHD (4K): 4096x2160p24/25, 3840x2160p24/25/30• FHD: 1920x1080p24/25/30/48/50/60• HD: 1280x720p24/25/30/48/50/60
Max. bit rate of video storage	60 Mbps
Supported file formats	<ul style="list-style-type: none">• FAT32/exFAT• Photo: JPEG, DNG• Video: MP4/MOV (MPEG-4 AVC/H.264)
Supported SD card types	<ul style="list-style-type: none">• Micro SD• Max. capacity: 64 GB. Class 10 or UHS-1 rating required.
Operating temperature range	0 to +40°C (+32 to +104°F)

Image processing and display controls	
NTSC/PAL (field switchable)	Yes
Image optimization	Yes
Digital detail	Yes

Enhancement	
Polarity control (black hot/white hot)	Yes
Color and monochrome palettes (LUTs)	Yes
Digital zoom	2x, 4x, 8x

Lens model	
Focal length	13 mm
f number	f/1.25
FoV	45° x 37°
iFoV	1.308 mrad
Minimum focus distance	7.6 cm (3.0 in.)
Hyperfocal distance	4.4 m (14.4 ft.)
Hyperfocal depth of field	2.2 m (7.2 ft.)

Environmental	
Operating temperature range	-10 to +40°C (+14 to +104°F)
Non-operating temperature range	-30 to +70°C (-22 to +158°F)
Temperature shock	5°C/min (41°F/min)
Humidity	5-95%

Certifications	
Compliance	http://www.dji.com/euro-compliance



FLIR Aerial Commercial Building Inspector Kit (30 Hz)

P/N: 75604-0404

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Remote controller	
Name	C1
Operating frequency	<ul style="list-style-type: none">922.7–927.7 MHz (Japan only)5.725–5.825 GHz2.400–2.483 GHz
Transmitting distance	<ul style="list-style-type: none">Up to 5.0 km (3.1 miles) (unobstructed, free of interferences and FCC compliant) when it is FCC compliantUp to 3.5 km (2.1 miles) (unobstructed, free of interferences) when it is CE compliant
EIRP	<ul style="list-style-type: none">10 dBm @ 900 m13 dBm @ 5.8 G20 dBm @ 2.4 G
Video output port	USB, Mini-HDMI
Power supply	Built-in battery
Charging	DJI charger
Dual-user capability	Host-and-slave connection
Mobile device holder	Tablet or smart phone
Output power	9 W
Operating temperature range	–10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: –20 to +45°C (–4 to 113°F)More than 3 months: 22–28°C (72–82°F)
Charging temperature range	0–40°C (32–104°F)
Battery	6000 mA h LiPo 2S

Charger	
Model	A14-100P1A
Voltage	26.3 V
Rated power	100 W

Battery (standard)	
Name	Intelligent flight battery
Model	TB47
Capacity	4500 mA h
Voltage	22.2 V
Battery type	LiPo 6S high-voltage battery
Energy	99.9 W h
Net weight	570 g
Operating temperature range	–10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: –20 to +45°C (–4 to 113°F)More than 3 months: 22–28°C (72–82°F)
Charging temperature range	0–40°C (32–104°F)
Maximum charging power	180 W
Maximum number of charging cycles	200

Battery (optional)	
Name	Intelligent flight battery
Model	TB48



FLIR Aerial Commercial Building Inspector Kit (30 Hz)

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Battery (optional)	
Capacity	5700 mA h
Voltage	22.8 V
Battery type	LiPo 6S
Energy	129.96 W h
Net weight	670 g
Operating temperature range	-10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: -20 to +45°C (-4 to 113°F)More than 3 months: 22-28°C (72-82°F)
Charging temperature range	0-40°C (32-104°F)
Maximum charging power	180 W
Maximum number of charging cycles	200

Vision positioning	
Velocity range	Below 8 m/s (26 ft./s) (2 m (6.6 ft.) above ground)
Altitude range	5-500 cm (2.0-200 in.)
Operating environment	Brightly lit (lux > 15) patterned surfaces
Operating range	0-300 cm (0-120 in.)

DJI GO app	
Mobile device system requirements	<ul style="list-style-type: none">iOS version 7.1 or laterAndroid version 4.1.2 or later
Supported mobile devices	<ul style="list-style-type: none">iPhone 6 PlusiPhone 6iPhone 5SiPad Air 2iPad Mini 3iPad AiriPad Mini 2iPad 4Samsung Note 3Samsung S5Sony Z3 EXPERIA <p>NOTE: It is recommended that you use a tablet for the best experience</p>

Documentation and firmware	
Download link	http://tinyurl.com/z8esgtc

Warranty	
Warranty	http://www.dji.com/service#warranty_period

Global trade data	
HS Code	<ul style="list-style-type: none">8802200015 (Inspire 1)9032896085 (Zenmuse XT)
ECCN code	6A003.b.4.b. (Zenmuse XT)

Shipping information	
Packaging type	Cardboard box



FLIR Aerial Commercial Building Inspector Kit (30 Hz)

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Shipping information

List of contents

- Inspire T600 aircraft
- Zenmuse XT thermal camera with stabilized gimbal
- Zenmuse X3 video camera with stabilized gimbal
- Controller
- Battery (x2)
- FLIR Tools+
- iPad Mini 4 (128 GB, Wi-Fi and cellular)
- Monitor hood
- Rugged carry case
- Landing Pad

P/N: 76504-0404

Revision

43539

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Aircraft	
Model	Inspire 1 – T600
Weight (battery included)	2935 g (6.471 lb.)
Hovering accuracy (P mode)	<ul style="list-style-type: none"> Vertical: 0.5 m (1.6 ft.) Horizontal: 2.5 m (8.2 ft.)
Maximum angular velocity	<ul style="list-style-type: none"> Pitch: 300°/s Yaw: 150°/s
Maximum tilt angle	35°
Maximum ascent speed	5 m/s (16 ft./s)
Maximum descent speed	4 m/s (13 ft./s)
Maximum speed	22 m/s (72 ft./s) (ATTI mode, no wind)
Maximum service ceiling above sea level	4500 m (14 700 ft.) (software altitude limit: 120 m (390 ft.) above takeoff point)
Maximum wind speed resistance	10 m/s (32 ft./s)
Maximum flight time	Approximately 18 minutes
Motor model	DJI 3510
Propeller model	DJI 1345T
Indoor hovering	Enabled by default
Operating temperature range	-10 to +40°C (+14 to +104°F)
Diagonal distance	559–581 mm (22.0–22.8 in.)
Dimensions	438 mm × 451 mm × 301 mm (17.2 in. × 17.8 in. × 11.9 in.)

Gimbal (Zenmuse XT)	
Name	Zenmuse XT
Dimensions	103 mm × 74 mm × 102 mm (4.1 in. × 2.9 in. × 4.0 in.)
Weight	270 g (0.60 lb.)
Angular vibration range	±0.03°
Mount	Detachable
Controllable range	<ul style="list-style-type: none"> Tilt: +35° to -90° Pan: ±320° Roll: ±15°
Mechanical range	<ul style="list-style-type: none"> Tilt: +45° to -135° Pan: ±320° Roll: ±45°
Maximum controllable speed	120°/s



FLIR Aerial Commercial Building Inspector Kit (9 Hz)

P/N: 76504-0404

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Website

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Customer support

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Gimbal (Zenmuse X3)	
Model	Zenmuse X3
Output power (with camera)	<ul style="list-style-type: none">• Static: 9 W• In motion: 11 W
Operating current	<ul style="list-style-type: none">• Station: 750 mA• Motion: 900 mA
Angular vibration range	±0.03°
Mounting	Detachable
Controllable range	<ul style="list-style-type: none">• Pitch: -90° to +30°• Pan: ±320°
Mechanical range	<ul style="list-style-type: none">• Pitch: -125° to +45°• Pan: ±330°
Max. controllable speed	<ul style="list-style-type: none">• Pitch: 120°/s• Pan: 180°/s

Camera (Zenmuse XT)	
Thermal imager	Uncooled VOx microbolometer
FPA/digital video display formats	640 × 512 pixels
Analog video display formats	<ul style="list-style-type: none">• 720 × 480 pixels (NTSC)• 720 × 576 pixels (PAL)
Pixel pitch	17 μm
Spectral band	7.5–13.5 μm
Frame rates	<ul style="list-style-type: none">• 7.5 Hz (NTSC)• 8.3 Hz (PAL)
Sensitivity (NEΔT)	<50 mK at f/1.0
Accuracy	±20°C (±36°F)
Scene range (high gain)	-25 to +135°C (-13 to +275°F)
Scene range (low gain)	-40 to 550°C (-40 to +1022°F)
Spot meter	Temperatures measured in central 4 × 4 pixels
File storage	Micro SD card. 16 GB Class 10 included, up to 32 GB supported.
Data logging	<ul style="list-style-type: none">• 8-bit AGC + LUT video at camera frame rate packaged in either .MOV or .MP4 wrappers.• 8-bit AGC + LUT still images in .JPG.• 14-bit TIFF raw still images with FLIR-specified metadata.

Camera (Zenmuse X3)	
Name	X3
Model	FC350
Total pixels	12.76 Mpixel
Effective pixels	12.4 Mpixel
Image max. size	4000 × 3000
ISO range	<ul style="list-style-type: none">• 100–3200 (video)• 100–1600 (photo)
Electronic shutter speed	8 s to 1/8000 s
FOV (field of view)	94°
CMOS	Sony EXMOR 1/2.3"



FLIR Aerial Commercial Building Inspector Kit (9 Hz)

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Website

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Customer support

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Camera (Zemuse X3)	
Lens	<ul style="list-style-type: none">• 20 mm (35 mm format equivalent) f/2.8 focus at ∞• 9 elements in 9 groups• Anti-distortion
Still photography modes	<ul style="list-style-type: none">• Single shoot• Burst shooting: 3/5/7 frames• Auto exposure bracketing (AEB): 3/5 bracketed frames at 0.7 EV bias• Time-lapse
Video recording modes	<ul style="list-style-type: none">• UHD (4K): 4096x2160p24/25, 3840x2160p24/25/30• FHD: 1920x1080p24/25/30/48/50/60• HD: 1280x720p24/25/30/48/50/60
Max. bit rate of video storage	60 Mbps
Supported file formats	<ul style="list-style-type: none">• FAT32/exFAT• Photo: JPEG, DNG• Video: MP4/MOV (MPEG-4 AVC/H.264)
Supported SD card types	<ul style="list-style-type: none">• Micro SD• Max. capacity: 64 GB. Class 10 or UHS-1 rating required.
Operating temperature range	0 to +40°C (+32 to +104°F)

Image processing and display controls	
NTSC/PAL (field switchable)	Yes
Image optimization	Yes
Digital detail	Yes

Enhancement	
Polarity control (black hot/white hot)	Yes
Color and monochrome palettes (LUTs)	Yes
Digital zoom	2x, 4x, 8x

Lens model	
Focal length	13 mm
f number	f/1.25
FoV	45° x 37°
iFoV	1.308 mrad
Minimum focus distance	7.6 cm (3.0 in.)
Hyperfocal distance	4.4 m (14.4 ft.)
Hyperfocal depth of field	2.2 m (7.2 ft.)

Environmental	
Operating temperature range	-10 to +40°C (+14 to +104°F)
Non-operating temperature range	-30 to +70°C (-22 to +158°F)
Temperature shock	5°C/min (41°F/min)
Humidity	5-95%

Certifications	
Compliance	http://www.dji.com/euro-compliance



FLIR Aerial Commercial Building Inspector Kit (9 Hz)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Remote controller	
Name	C1
Operating frequency	<ul style="list-style-type: none">922.7–927.7 MHz (Japan only)5.725–5.825 GHz2.400–2.483 GHz
Transmitting distance	<ul style="list-style-type: none">Up to 5.0 km (3.1 miles) (unobstructed, free of interferences and FCC compliant) when it is FCC compliantUp to 3.5 km (2.1 miles) (unobstructed, free of interferences) when it is CE compliant
EIRP	<ul style="list-style-type: none">10 dBm @ 900 m13 dBm @ 5.8 G20 dBm @ 2.4 G
Video output port	USB, Mini-HDMI
Power supply	Built-in battery
Charging	DJI charger
Dual-user capability	Host-and-slave connection
Mobile device holder	Tablet or smart phone
Output power	9 W
Operating temperature range	-10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: -20 to +45°C (-4 to 113°F)More than 3 months: 22–28°C (72–82°F)
Charging temperature range	0–40°C (32–104°F)
Battery	6000 mA h LiPo 2S

Charger	
Model	A14-100P1A
Voltage	26.3 V
Rated power	100 W

Battery (standard)	
Name	Intelligent flight battery
Model	TB47
Capacity	4500 mA h
Voltage	22.2 V
Battery type	LiPo 6S high-voltage battery
Energy	99.9 W h
Net weight	570 g
Operating temperature range	-10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: -20 to +45°C (-4 to 113°F)More than 3 months: 22–28°C (72–82°F)
Charging temperature range	0–40°C (32–104°F)
Maximum charging power	180 W
Maximum number of charging cycles	200

Battery (optional)	
Name	Intelligent flight battery
Model	TB48



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Battery (optional)	
Capacity	5700 mA h
Voltage	22.8 V
Battery type	LiPo 6S
Energy	129.96 W h
Net weight	670 g
Operating temperature range	-10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: -20 to +45°C (-4 to 113°F)More than 3 months: 22-28°C (72-82°F)
Charging temperature range	0-40°C (32-104°F)
Maximum charging power	180 W
Maximum number of charging cycles	200

Vision positioning	
Velocity range	Below 8 m/s (26 ft./s) (2 m (6.6 ft.) above ground)
Altitude range	5-500 cm (2.0-200 in.)
Operating environment	Brightly lit (lux > 15) patterned surfaces
Operating range	0-300 cm (0-120 in.)

DJI GO app	
Mobile device system requirements	<ul style="list-style-type: none">iOS version 7.1 or laterAndroid version 4.1.2 or later
Supported mobile devices	<ul style="list-style-type: none">iPhone 6 PlusiPhone 6iPhone 5SiPad Air 2iPad Mini 3iPad AiriPad Mini 2iPad 4Samsung Note 3Samsung S5Sony Z3 EXPERIA <p>NOTE: It is recommended that you use a tablet for the best experience</p>

Documentation and firmware	
Download link	http://tinyurl.com/z8esgtc

Warranty	
Warranty	http://www.dji.com/service#warranty_period

Global trade data	
HS Code	<ul style="list-style-type: none">8802200015 (Inspire 1)9032896085 (Zenmuse XT)
ECCN code	6A993.a (Zenmuse XT)

Shipping information	
Packaging type	Cardboard box



FLIR Aerial Commercial Building Inspector Kit (9 Hz)

P/N: 76504-0404

Revision

43539

Last modified

2017-06-28 10:52 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Shipping information

List of contents

- Inspire T600 aircraft
- Zenmuse XT thermal camera with stabilized gimbal
- Zenmuse X3 video camera with stabilized gimbal
- Controller
- Battery (x2)
- FLIR Tools+
- iPad Mini 4 (128 GB, Wi-Fi and cellular)
- Monitor hood
- Rugged carry case
- Landing Pad

P/N: 75604-0406

Revision

38391

Last modified

2016-11-18 09:01 UTC+1

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Website

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Customer support

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Aircraft	
Model	Inspire 1 – T600
Weight (battery included)	2935 g (6.471 lb.)
Hovering accuracy (P mode)	<ul style="list-style-type: none"> Vertical: 0.5 m (1.6 ft.) Horizontal: 2.5 m (8.2 ft.)
Maximum angular velocity	<ul style="list-style-type: none"> Pitch: 300°/s Yaw: 150°/s
Maximum tilt angle	35°
Maximum ascent speed	5 m/s (16 ft./s)
Maximum descent speed	4 m/s (13 ft./s)
Maximum speed	22 m/s (72 ft./s) (ATTI mode, no wind)
Maximum service ceiling above sea level	4500 m (14 700 ft.) (software altitude limit: 120 m (390 ft.) above takeoff point)
Maximum wind speed resistance	10 m/s (32 ft./s)
Maximum flight time	Approximately 18 minutes
Motor model	DJI 3510
Propeller model	DJI 1345T
Indoor hovering	Enabled by default
Operating temperature range	-10 to +40°C (+14 to +104°F)
Diagonal distance	559–581 mm (22.0–22.8 in.)
Dimensions	438 mm × 451 mm × 301 mm (17.2 in. × 17.8 in. × 11.9 in.)

Gimbal (Zenmuse XT)	
Name	Zenmuse XT
Dimensions	103 mm × 74 mm × 102 mm (4.1 in. × 2.9 in. × 4.0 in.)
Weight	270 g (0.60 lb.)
Angular vibration range	±0.03°
Mount	Detachable
Controllable range	<ul style="list-style-type: none"> Tilt: +35° to -90° Pan: ±320° Roll: ±15°
Mechanical range	<ul style="list-style-type: none"> Tilt: +45° to -135° Pan: ±320° Roll: ±45°
Maximum controllable speed	120°/s



FLIR Aerial Commercial Building Inspector Kit w/out iPad (30 Hz)

P/N: 75604-0406

Revision

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Website

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Customer support

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Gimbal (Zenmuse X3)	
Model	Zenmuse X3
Output power (with camera)	<ul style="list-style-type: none"> Static: 9 W In motion: 11 W
Operating current	<ul style="list-style-type: none"> Station: 750 mA Motion: 900 mA
Angular vibration range	±0.03°
Mounting	Detachable
Controllable range	<ul style="list-style-type: none"> Pitch: -90° to +30° Pan: ±320°
Mechanical range	<ul style="list-style-type: none"> Pitch: -125° to +45° Pan: ±330°
Max. controllable speed	<ul style="list-style-type: none"> Pitch: 120°/s Pan: 180°/s

Camera (Zenmuse XT)	
Thermal imager	Uncooled VOx microbolometer
FPA/digital video display formats	640 × 512 pixels
Analog video display formats	<ul style="list-style-type: none"> 720 × 480 pixels (NTSC) 720 × 576 pixels (PAL)
Pixel pitch	17 μm
Spectral band	7.5–13.5 μm
Frame rates	<ul style="list-style-type: none"> 30 Hz (NTSC) 25 Hz (PAL)
Sensitivity (NEΔT)	<50 mK at f/1.0
Accuracy	±20°C (±36°F)
Scene range (high gain)	-25 to +135°C (-13 to +275°F)
Scene range (low gain)	-40 to 550°C (-40 to +1022°F)
Spot meter	Temperatures measured in central 4 × 4 pixels
File storage	Micro SD card. 16 GB Class 10 included, up to 32 GB supported.
Data logging	<ul style="list-style-type: none"> 8-bit AGC + LUT video at camera frame rate packaged in either .MOV or .MP4 wrappers. 8-bit AGC + LUT still images in .JPG. 14-bit TIFF raw still images with FLIR-specified metadata.

Camera (Zenmuse X3)	
Name	X3
Model	FC350
Total pixels	12.76 Mpixel
Effective pixels	12.4 Mpixel
Image max. size	4000 × 3000
ISO range	<ul style="list-style-type: none"> 100–3200 (video) 100–1600 (photo)
Electronic shutter speed	8 s to 1/8000 s
FOV (field of view)	94°
CMOS	Sony EXMOR 1/2.3"



FLIR Aerial Commercial Building Inspector Kit w/out iPad (30 Hz)

P/N: 75604-0406

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Camera (Zemuse X3)	
Lens	<ul style="list-style-type: none">• 20 mm (35 mm format equivalent) f/2.8 focus at ∞• 9 elements in 9 groups• Anti-distortion
Still photography modes	<ul style="list-style-type: none">• Single shoot• Burst shooting: 3/5/7 frames• Auto exposure bracketing (AEB): 3/5 bracketed frames at 0.7 EV bias• Time-lapse
Video recording modes	<ul style="list-style-type: none">• UHD (4K): 4096x2160p24/25, 3840x2160p24/25/30• FHD: 1920x1080p24/25/30/48/50/60• HD: 1280x720p24/25/30/48/50/60
Max. bit rate of video storage	60 Mbps
Supported file formats	<ul style="list-style-type: none">• FAT32/exFAT• Photo: JPEG, DNG• Video: MP4/MOV (MPEG-4 AVC/H.264)
Supported SD card types	<ul style="list-style-type: none">• Micro SD• Max. capacity: 64 GB. Class 10 or UHS-1 rating required.
Operating temperature range	0 to +40°C (+32 to +104°F)

Image processing and display controls	
NTSC/PAL (field switchable)	Yes
Image optimization	Yes
Digital detail	Yes

Enhancement	
Polarity control (black hot/white hot)	Yes
Color and monochrome palettes (LUTs)	Yes
Digital zoom	2x, 4x, 8x

Lens model	
Focal length	13 mm
f number	f/1.25
FoV	45° x 37°
iFoV	1.308 mrad
Minimum focus distance	7.6 cm (3.0 in.)
Hyperfocal distance	4.4 m (14.4 ft.)
Hyperfocal depth of field	2.2 m (7.2 ft.)

Environmental	
Operating temperature range	-10 to +40°C (+14 to +104°F)
Non-operating temperature range	-30 to +70°C (-22 to +158°F)
Temperature shock	5°C/min (41°F/min)
Humidity	5-95%

Certifications	
Compliance	http://www.dji.com/euro-compliance



FLIR Aerial Commercial Building Inspector Kit w/out iPad (30 Hz)

P/N: 75604-0406

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Remote controller	
Name	C1
Operating frequency	<ul style="list-style-type: none">922.7–927.7 MHz (Japan only)5.725–5.825 GHz2.400–2.483 GHz
Transmitting distance	<ul style="list-style-type: none">Up to 5.0 km (3.1 miles) (unobstructed, free of interferences and FCC compliant) when it is FCC compliantUp to 3.5 km (2.1 miles) (unobstructed, free of interferences) when it is CE compliant
EIRP	<ul style="list-style-type: none">10 dBm @ 900 m13 dBm @ 5.8 G20 dBm @ 2.4 G
Video output port	USB, Mini-HDMI
Power supply	Built-in battery
Charging	DJI charger
Dual-user capability	Host-and-slave connection
Mobile device holder	Tablet or smart phone
Output power	9 W
Operating temperature range	–10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: –20 to +45°C (–4 to 113°F)More than 3 months: 22–28°C (72–82°F)
Charging temperature range	0–40°C (32–104°F)
Battery	6000 mA h LiPo 2S

Charger	
Model	A14-100P1A
Voltage	26.3 V
Rated power	100 W

Battery (standard)	
Name	Intelligent flight battery
Model	TB47
Capacity	4500 mA h
Voltage	22.2 V
Battery type	LiPo 6S high-voltage battery
Energy	99.9 W h
Net weight	570 g
Operating temperature range	–10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: –20 to +45°C (–4 to 113°F)More than 3 months: 22–28°C (72–82°F)
Charging temperature range	0–40°C (32–104°F)
Maximum charging power	180 W
Maximum number of charging cycles	200

Battery (optional)	
Name	Intelligent flight battery
Model	TB48



FLIR Aerial Commercial Building Inspector Kit w/out iPad (30 Hz)

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Website

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Customer support

<http://support.flir.com>

Battery (optional)	
Capacity	5700 mA h
Voltage	22.8 V
Battery type	LiPo 6S
Energy	129.96 W h
Net weight	670 g
Operating temperature range	-10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">• Less than 3 months: -20 to +45°C (-4 to 113°F)• More than 3 months: 22-28°C (72-82°F)
Charging temperature range	0-40°C (32-104°F)
Maximum charging power	180 W
Maximum number of charging cycles	200

Vision positioning	
Velocity range	Below 8 m/s (26 ft./s) (2 m (6.6 ft.) above ground)
Altitude range	5-500 cm (2.0-200 in.)
Operating environment	Brightly lit (lux > 15) patterned surfaces
Operating range	0-300 cm (0-120 in.)

DJI GO app	
Mobile device system requirements	<ul style="list-style-type: none">• iOS version 7.1 or later• Android version 4.1.2 or later
Supported mobile devices	<ul style="list-style-type: none">• iPhone 6 Plus• iPhone 6• iPhone 5S• iPad Air 2• iPad Mini 3• iPad Air• iPad Mini 2• iPad 4• Samsung Note 3• Samsung S5• Sony Z3 EXPERIA <p>NOTE: It is recommended that you use a tablet for the best experience</p>

Documentation and firmware	
Download link	http://tinyurl.com/z8esgtc

Warranty	
Warranty	http://www.dji.com/service#warranty_period

Shipping information	
Packaging type	Cardboard box
List of contents	<ul style="list-style-type: none">• Inspire T600 aircraft• Zenmuse XT thermal camera with stabilized gimbal• Zenmuse X3 video camera with stabilized gimbal• Controller• Battery (x2)• FLIR Tools+• Monitor hood• Rugged carry case• Landing Pad

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Website

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Customer support

<http://support.flir.com>



Aircraft	
Model	Inspire 1 – T600
Weight (battery included)	2935 g (6.471 lb.)
Hovering accuracy (P mode)	<ul style="list-style-type: none"> Vertical: 0.5 m (1.6 ft.) Horizontal: 2.5 m (8.2 ft.)
Maximum angular velocity	<ul style="list-style-type: none"> Pitch: 300°/s Yaw: 150°/s
Maximum tilt angle	35°
Maximum ascent speed	5 m/s (16 ft./s)
Maximum descent speed	4 m/s (13 ft./s)
Maximum speed	22 m/s (72 ft./s) (ATTI mode, no wind)
Maximum service ceiling above sea level	4500 m (14 700 ft.) (software altitude limit: 120 m (390 ft.) above takeoff point)
Maximum wind speed resistance	10 m/s (32 ft./s)
Maximum flight time	Approximately 18 minutes
Motor model	DJI 3510
Propeller model	DJI 1345T
Indoor hovering	Enabled by default
Operating temperature range	-10 to +40°C (+14 to +104°F)
Diagonal distance	559–581 mm (22.0–22.8 in.)
Dimensions	438 mm × 451 mm × 301 mm (17.2 in. × 17.8 in. × 11.9 in.)

Gimbal (Zenmuse XT)	
Name	Zenmuse XT
Dimensions	103 mm × 74 mm × 102 mm (4.1 in. × 2.9 in. × 4.0 in.)
Weight	270 g (0.60 lb.)
Angular vibration range	±0.03°
Mount	Detachable
Controllable range	<ul style="list-style-type: none"> Tilt: +35° to -90° Pan: ±320° Roll: ±15°
Mechanical range	<ul style="list-style-type: none"> Tilt: +45° to -135° Pan: ±320° Roll: ±45°
Maximum controllable speed	120°/s



FLIR Aerial Commercial Building Inspector Kit w/out iPad (9 Hz)

P/N: 76504-0406

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Website

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Customer support

<http://support.flir.com>

Gimbal (Zenmuse X3)	
Model	Zenmuse X3
Output power (with camera)	<ul style="list-style-type: none"> • Static: 9 W • In motion: 11 W
Operating current	<ul style="list-style-type: none"> • Station: 750 mA • Motion: 900 mA
Angular vibration range	±0.03°
Mounting	Detachable
Controllable range	<ul style="list-style-type: none"> • Pitch: -90° to +30° • Pan: ±320°
Mechanical range	<ul style="list-style-type: none"> • Pitch: -125° to +45° • Pan: ±330°
Max. controllable speed	<ul style="list-style-type: none"> • Pitch: 120°/s • Pan: 180°/s

Camera (Zenmuse XT)	
Thermal imager	Uncooled VOx microbolometer
FPA/digital video display formats	640 × 512 pixels
Analog video display formats	<ul style="list-style-type: none"> • 720 × 480 pixels (NTSC) • 720 × 576 pixels (PAL)
Pixel pitch	17 μm
Spectral band	7.5–13.5 μm
Frame rates	<ul style="list-style-type: none"> • 7.5 Hz (NTSC) • 8.3 Hz (PAL)
Sensitivity (NEΔT)	<50 mK at f/1.0
Accuracy	±20°C (±36°F)
Scene range (high gain)	-25 to +135°C (-13 to +275°F)
Scene range (low gain)	-40 to 550°C (-40 to +1022°F)
Spot meter	Temperatures measured in central 4 × 4 pixels
File storage	Micro SD card. 16 GB Class 10 included, up to 32 GB supported.
Data logging	<ul style="list-style-type: none"> • 8-bit AGC + LUT video at camera frame rate packaged in either .MOV or .MP4 wrappers. • 8-bit AGC + LUT still images in .JPG. • 14-bit TIFF raw still images with FLIR-specified metadata.

Camera (Zenmuse X3)	
Name	X3
Model	FC350
Total pixels	12.76 Mpixel
Effective pixels	12.4 Mpixel
Image max. size	4000 × 3000
ISO range	<ul style="list-style-type: none"> • 100–3200 (video) • 100–1600 (photo)
Electronic shutter speed	8 s to 1/8000 s
FOV (field of view)	94°
CMOS	Sony EXMOR 1/2.3"



FLIR Aerial Commercial Building Inspector Kit w/out iPad (9 Hz)

P/N: 76504-0406

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Camera (Zemuse X3)	
Lens	<ul style="list-style-type: none">• 20 mm (35 mm format equivalent) f/2.8 focus at ∞• 9 elements in 9 groups• Anti-distortion
Still photography modes	<ul style="list-style-type: none">• Single shoot• Burst shooting: 3/5/7 frames• Auto exposure bracketing (AEB): 3/5 bracketed frames at 0.7 EV bias• Time-lapse
Video recording modes	<ul style="list-style-type: none">• UHD (4K): 4096x2160p24/25, 3840x2160p24/25/30• FHD: 1920x1080p24/25/30/48/50/60• HD: 1280x720p24/25/30/48/50/60
Max. bit rate of video storage	60 Mbps
Supported file formats	<ul style="list-style-type: none">• FAT32/exFAT• Photo: JPEG, DNG• Video: MP4/MOV (MPEG-4 AVC/H.264)
Supported SD card types	<ul style="list-style-type: none">• Micro SD• Max. capacity: 64 GB. Class 10 or UHS-1 rating required.
Operating temperature range	0 to +40°C (+32 to +104°F)

Image processing and display controls	
NTSC/PAL (field switchable)	Yes
Image optimization	Yes
Digital detail	Yes

Enhancement	
Polarity control (black hot/white hot)	Yes
Color and monochrome palettes (LUTs)	Yes
Digital zoom	2x, 4x, 8x

Lens model	
Focal length	13 mm
f number	f/1.25
FoV	45° x 37°
iFoV	1.308 mrad
Minimum focus distance	7.6 cm (3.0 in.)
Hyperfocal distance	4.4 m (14.4 ft.)
Hyperfocal depth of field	2.2 m (7.2 ft.)

Environmental	
Operating temperature range	-10 to +40°C (+14 to +104°F)
Non-operating temperature range	-30 to +70°C (-22 to +158°F)
Temperature shock	5°C/min (41°F/min)
Humidity	5-95%

Certifications	
Compliance	http://www.dji.com/euro-compliance



FLIR Aerial Commercial Building Inspector Kit w/out iPad (9 Hz)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Remote controller	
Name	C1
Operating frequency	<ul style="list-style-type: none">922.7–927.7 MHz (Japan only)5.725–5.825 GHz2.400–2.483 GHz
Transmitting distance	<ul style="list-style-type: none">Up to 5.0 km (3.1 miles) (unobstructed, free of interferences and FCC compliant) when it is FCC compliantUp to 3.5 km (2.1 miles) (unobstructed, free of interferences) when it is CE compliant
EIRP	<ul style="list-style-type: none">10 dBm @ 900 m13 dBm @ 5.8 G20 dBm @ 2.4 G
Video output port	USB, Mini-HDMI
Power supply	Built-in battery
Charging	DJI charger
Dual-user capability	Host-and-slave connection
Mobile device holder	Tablet or smart phone
Output power	9 W
Operating temperature range	–10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: –20 to +45°C (–4 to 113°F)More than 3 months: 22–28°C (72–82°F)
Charging temperature range	0–40°C (32–104°F)
Battery	6000 mA h LiPo 2S

Charger	
Model	A14-100P1A
Voltage	26.3 V
Rated power	100 W

Battery (standard)	
Name	Intelligent flight battery
Model	TB47
Capacity	4500 mA h
Voltage	22.2 V
Battery type	LiPo 6S high-voltage battery
Energy	99.9 W h
Net weight	570 g
Operating temperature range	–10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: –20 to +45°C (–4 to 113°F)More than 3 months: 22–28°C (72–82°F)
Charging temperature range	0–40°C (32–104°F)
Maximum charging power	180 W
Maximum number of charging cycles	200

Battery (optional)	
Name	Intelligent flight battery
Model	TB48



FLIR Aerial Commercial Building Inspector Kit w/out iPad (9 Hz)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Battery (optional)	
Capacity	5700 mA h
Voltage	22.8 V
Battery type	LiPo 6S
Energy	129.96 W h
Net weight	670 g
Operating temperature range	-10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">• Less than 3 months: -20 to +45°C (-4 to 113°F)• More than 3 months: 22-28°C (72-82°F)
Charging temperature range	0-40°C (32-104°F)
Maximum charging power	180 W
Maximum number of charging cycles	200

Vision positioning	
Velocity range	Below 8 m/s (26 ft./s) (2 m (6.6 ft.) above ground)
Altitude range	5-500 cm (2.0-200 in.)
Operating environment	Brightly lit (lux > 15) patterned surfaces
Operating range	0-300 cm (0-120 in.)

DJI GO app	
Mobile device system requirements	<ul style="list-style-type: none">• iOS version 7.1 or later• Android version 4.1.2 or later
Supported mobile devices	<ul style="list-style-type: none">• iPhone 6 Plus• iPhone 6• iPhone 5S• iPad Air 2• iPad Mini 3• iPad Air• iPad Mini 2• iPad 4• Samsung Note 3• Samsung S5• Sony Z3 EXPERIA <p>NOTE: It is recommended that you use a tablet for the best experience</p>

Documentation and firmware	
Download link	http://tinyurl.com/z8esgtc

Warranty	
Warranty	http://www.dji.com/service#warranty_period

Shipping information	
Packaging type	Cardboard box
List of contents	<ul style="list-style-type: none">• Inspire T600 aircraft• Zenmuse XT thermal camera with stabilized gimbal• Zenmuse X3 video camera with stabilized gimbal• Controller• Battery (x2)• FLIR Tools+• Monitor hood• Rugged carry case• Landing Pad

P/N: 75604-1406

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Aircraft	
Model	Inspire 1 – T600
Weight (battery included)	2935 g (6.471 lb.)
Hovering accuracy (P mode)	<ul style="list-style-type: none"> Vertical: 0.5 m (1.6 ft.) Horizontal: 2.5 m (8.2 ft.)
Maximum angular velocity	<ul style="list-style-type: none"> Pitch: 300°/s Yaw: 150°/s
Maximum tilt angle	35°
Maximum ascent speed	5 m/s (16 ft./s)
Maximum descent speed	4 m/s (13 ft./s)
Maximum speed	22 m/s (72 ft./s) (ATTI mode, no wind)
Maximum service ceiling above sea level	4500 m (14 700 ft.) (software altitude limit: 120 m (390 ft.) above takeoff point)
Maximum wind speed resistance	10 m/s (32 ft./s)
Maximum flight time	Approximately 18 minutes
Motor model	DJI 3510
Propeller model	DJI 1345T
Indoor hovering	Enabled by default
Operating temperature range	-10 to +40°C (+14 to +104°F)
Diagonal distance	559–581 mm (22.0–22.8 in.)
Dimensions	438 mm × 451 mm × 301 mm (17.2 in. × 17.8 in. × 11.9 in.)

Gimbal (Zenmuse XT)	
Name	Zenmuse XT
Dimensions	103 mm × 74 mm × 102 mm (4.1 in. × 2.9 in. × 4.0 in.)
Weight	270 g (0.60 lb.)
Angular vibration range	±0.03°
Mount	Detachable
Controllable range	<ul style="list-style-type: none"> Tilt: +35° to -90° Pan: ±320° Roll: ±15°
Mechanical range	<ul style="list-style-type: none"> Tilt: +45° to -135° Pan: ±320° Roll: ±45°
Maximum controllable speed	120°/s



FLIR Aerial Commercial Building Inspector Kit w/out iPad, R (30 Hz)

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Website

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Customer support

<http://support.flir.com>

Gimbal (Zenmuse X3)	
Model	Zenmuse X3
Output power (with camera)	<ul style="list-style-type: none"> Static: 9 W In motion: 11 W
Operating current	<ul style="list-style-type: none"> Station: 750 mA Motion: 900 mA
Angular vibration range	±0.03°
Mounting	Detachable
Controllable range	<ul style="list-style-type: none"> Pitch: -90° to +30° Pan: ±320°
Mechanical range	<ul style="list-style-type: none"> Pitch: -125° to +45° Pan: ±330°
Max. controllable speed	<ul style="list-style-type: none"> Pitch: 120°/s Pan: 180°/s

Camera (Zenmuse XT)	
Thermal imager	Uncooled VOx microbolometer
FPA/digital video display formats	640 × 512 pixels
Analog video display formats	<ul style="list-style-type: none"> 720 × 480 pixels (NTSC) 720 × 576 pixels (PAL)
Pixel pitch	17 µm
Spectral band	7.5–13.5 µm
Frame rates	<ul style="list-style-type: none"> 30 Hz (NTSC) 25 Hz (PAL)
Sensitivity (NEΔT)	<50 mK at f/1.0
Accuracy	±5°C (±9°F)
Scene range (high gain)	-25 to +135°C (-13 to +275°F)
Scene range (low gain)	-40 to 550°C (-40 to +1022°F)
Measurement area	Temperatures measured in the full image
File storage	Micro SD card. 16 GB Class 10 included, up to 32 GB supported.
Data logging	<ul style="list-style-type: none"> 8-bit AGC + LUT video at camera frame rate packaged in either .MOV or .MP4 wrappers. 8-bit AGC + LUT still images in .JPG. 14-bit TIFF raw still images with FLIR-specified metadata.

Camera (Zenmuse X3)	
Name	X3
Model	FC350
Total pixels	12.76 Mpixel
Effective pixels	12.4 Mpixel
Image max. size	4000 × 3000
ISO range	<ul style="list-style-type: none"> 100–3200 (video) 100–1600 (photo)
Electronic shutter speed	8 s to 1/8000 s
FOV (field of view)	94°
CMOS	Sony EXMOR 1/2.3"



FLIR Aerial Commercial Building Inspector Kit w/out iPad, R (30 Hz)

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Website

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Customer support

<http://support.flir.com>

Camera (Zemuse X3)	
Lens	<ul style="list-style-type: none">• 20 mm (35 mm format equivalent) f/2.8 focus at ∞• 9 elements in 9 groups• Anti-distortion
Still photography modes	<ul style="list-style-type: none">• Single shoot• Burst shooting: 3/5/7 frames• Auto exposure bracketing (AEB): 3/5 bracketed frames at 0.7 EV bias• Time-lapse
Video recording modes	<ul style="list-style-type: none">• UHD (4K): 4096x2160p24/25, 3840x2160p24/25/30• FHD: 1920x1080p24/25/30/48/50/60• HD: 1280x720p24/25/30/48/50/60
Max. bit rate of video storage	60 Mbps
Supported file formats	<ul style="list-style-type: none">• FAT32/exFAT• Photo: JPEG, DNG• Video: MP4/MOV (MPEG-4 AVC/H.264)
Supported SD card types	<ul style="list-style-type: none">• Micro SD• Max. capacity: 64 GB. Class 10 or UHS-1 rating required.
Operating temperature range	0 to +40°C (+32 to +104°F)

Image processing and display controls	
NTSC/PAL (field switchable)	Yes
Image optimization	Yes
Digital detail	Yes

Enhancement	
Polarity control (black hot/white hot)	Yes
Color and monochrome palettes (LUTs)	Yes
Digital zoom	2x, 4x, 8x

Lens model	
Focal length	13 mm
f number	f/1.25
FoV	45° x 37°
iFoV	1.308 mrad
Minimum focus distance	7.6 cm (3.0 in.)
Hyperfocal distance	4.4 m (14.4 ft.)
Hyperfocal depth of field	2.2 m (7.2 ft.)

Environmental	
Operating temperature range	-10 to +40°C (+14 to +104°F)
Non-operating temperature range	-30 to +70°C (-22 to +158°F)
Temperature shock	5°C/min (41°F/min)
Humidity	5-95%

Certifications	
Compliance	http://www.dji.com/euro-compliance



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Remote controller	
Name	C1
Operating frequency	<ul style="list-style-type: none"> 922.7–927.7 MHz (Japan only) 5.725–5.825 GHz 2.400–2.483 GHz
Transmitting distance	<ul style="list-style-type: none"> Up to 5.0 km (3.1 miles) (unobstructed, free of interferences and FCC compliant) when it is FCC compliant Up to 3.5 km (2.1 miles) (unobstructed, free of interferences) when it is CE compliant
EIRP	<ul style="list-style-type: none"> 10 dBm @ 900 m 13 dBm @ 5.8 G 20 dBm @ 2.4 G
Video output port	USB, Mini-HDMI
Power supply	Built-in battery
Charging	DJI charger
Dual-user capability	Host-and-slave connection
Mobile device holder	Tablet or smart phone
Output power	9 W
Operating temperature range	-10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none"> Less than 3 months: -20 to +45°C (-4 to 113°F) More than 3 months: 22–28°C (72–82°F)
Charging temperature range	0–40°C (32–104°F)
Battery	6000 mA h LiPo 2S

Charger	
Model	A14-100P1A
Voltage	26.3 V
Rated power	100 W

Battery (standard)	
Name	Intelligent flight battery
Model	TB47
Capacity	4500 mA h
Voltage	22.2 V
Battery type	LiPo 6S high-voltage battery
Energy	99.9 W h
Net weight	570 g
Operating temperature range	-10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none"> Less than 3 months: -20 to +45°C (-4 to 113°F) More than 3 months: 22–28°C (72–82°F)
Charging temperature range	0–40°C (32–104°F)
Maximum charging power	180 W
Maximum number of charging cycles	200

Battery (optional)	
Name	Intelligent flight battery
Model	TB48



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Website

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Customer support

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Battery (optional)	
Capacity	5700 mA h
Voltage	22.8 V
Battery type	LiPo 6S
Energy	129.96 W h
Net weight	670 g
Operating temperature range	-10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">• Less than 3 months: -20 to +45°C (-4 to 113°F)• More than 3 months: 22-28°C (72-82°F)
Charging temperature range	0-40°C (32-104°F)
Maximum charging power	180 W
Maximum number of charging cycles	200

Vision positioning	
Velocity range	Below 8 m/s (26 ft./s) (2 m (6.6 ft.) above ground)
Altitude range	5-500 cm (2.0-200 in.)
Operating environment	Brightly lit (lux > 15) patterned surfaces
Operating range	0-300 cm (0-120 in.)

DJI GO app	
Mobile device system requirements	<ul style="list-style-type: none">• iOS version 7.1 or later• Android version 4.1.2 or later
Supported mobile devices	<ul style="list-style-type: none">• iPhone 6 Plus• iPhone 6• iPhone 5S• iPad Air 2• iPad Mini 3• iPad Air• iPad Mini 2• iPad 4• Samsung Note 3• Samsung S5• Sony Z3 EXPERIA <p>NOTE: It is recommended that you use a tablet for the best experience</p>

Documentation and firmware	
Download link	http://tinyurl.com/z8esgtc

Warranty	
Warranty	http://www.dji.com/service#warranty_period

Global trade data	
HS Code	<ul style="list-style-type: none">• 8802200015 (Inspire 1)• 9032896085 (Zenmuse XT)
ECCN code	6A003.b.4.b. (Zenmuse XT)

Shipping information	
Packaging type	Cardboard box



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Website

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Customer support

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Shipping information

List of contents

- Inspire T600 aircraft
- Zenmuse XT thermal camera with stabilized gimbal
- Zenmuse X3 video camera with stabilized gimbal
- Controller
- Battery (x2)
- FLIR Tools+
- Monitor hood
- Rugged carry case
- Landing Pad

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Website

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Customer support

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Aircraft	
Model	Inspire 1 – T600
Weight (battery included)	2935 g (6.471 lb.)
Hovering accuracy (P mode)	<ul style="list-style-type: none"> Vertical: 0.5 m (1.6 ft.) Horizontal: 2.5 m (8.2 ft.)
Maximum angular velocity	<ul style="list-style-type: none"> Pitch: 300°/s Yaw: 150°/s
Maximum tilt angle	35°
Maximum ascent speed	5 m/s (16 ft./s)
Maximum descent speed	4 m/s (13 ft./s)
Maximum speed	22 m/s (72 ft./s) (ATTI mode, no wind)
Maximum service ceiling above sea level	4500 m (14 700 ft.) (software altitude limit: 120 m (390 ft.) above takeoff point)
Maximum wind speed resistance	10 m/s (32 ft./s)
Maximum flight time	Approximately 18 minutes
Motor model	DJI 3510
Propeller model	DJI 1345T
Indoor hovering	Enabled by default
Operating temperature range	-10 to +40°C (+14 to +104°F)
Diagonal distance	559–581 mm (22.0–22.8 in.)
Dimensions	438 mm × 451 mm × 301 mm (17.2 in. × 17.8 in. × 11.9 in.)

Gimbal (Zenmuse XT)	
Name	Zenmuse XT
Dimensions	103 mm × 74 mm × 102 mm (4.1 in. × 2.9 in. × 4.0 in.)
Weight	270 g (0.60 lb.)
Angular vibration range	±0.03°
Mount	Detachable
Controllable range	<ul style="list-style-type: none"> Tilt: +35° to -90° Pan: ±320° Roll: ±15°
Mechanical range	<ul style="list-style-type: none"> Tilt: +45° to -135° Pan: ±320° Roll: ±45°
Maximum controllable speed	120°/s



FLIR Aerial Commercial Building Inspector Kit w/out iPad, R (9 Hz)

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Website

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Customer support

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Gimbal (Zenmuse X3)	
Model	Zenmuse X3
Output power (with camera)	<ul style="list-style-type: none"> • Static: 9 W • In motion: 11 W
Operating current	<ul style="list-style-type: none"> • Station: 750 mA • Motion: 900 mA
Angular vibration range	±0.03°
Mounting	Detachable
Controllable range	<ul style="list-style-type: none"> • Pitch: -90° to +30° • Pan: ±320°
Mechanical range	<ul style="list-style-type: none"> • Pitch: -125° to +45° • Pan: ±330°
Max. controllable speed	<ul style="list-style-type: none"> • Pitch: 120°/s • Pan: 180°/s

Camera (Zenmuse XT)	
Thermal imager	Uncooled VOx microbolometer
FPA/digital video display formats	640 × 512 pixels
Analog video display formats	<ul style="list-style-type: none"> • 720 × 480 pixels (NTSC) • 720 × 576 pixels (PAL)
Pixel pitch	17 μm
Spectral band	7.5–13.5 μm
Frame rates	<ul style="list-style-type: none"> • 7.5 Hz (NTSC) • 8.3 Hz (PAL)
Sensitivity (NEΔT)	<50 mK at f/1.0
Accuracy	±5°C (±9°F)
Scene range (high gain)	-25 to +135°C (-13 to +275°F)
Scene range (low gain)	-40 to 550°C (-40 to +1022°F)
Measurement area	Temperatures measured in the full image
File storage	Micro SD card. 16 GB Class 10 included, up to 32 GB supported.
Data logging	<ul style="list-style-type: none"> • 8-bit AGC + LUT video at camera frame rate packaged in either .MOV or .MP4 wrappers. • 8-bit AGC + LUT still images in .JPG. • 14-bit TIFF raw still images with FLIR-specified metadata.

Camera (Zenmuse X3)	
Name	X3
Model	FC350
Total pixels	12.76 Mpixel
Effective pixels	12.4 Mpixel
Image max. size	4000 × 3000
ISO range	<ul style="list-style-type: none"> • 100–3200 (video) • 100–1600 (photo)
Electronic shutter speed	8 s to 1/8000 s
FOV (field of view)	94°
CMOS	Sony EXMOR 1/2.3"



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Website

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Customer support

<http://support.flir.com>

Camera (Zemuse X3)	
Lens	<ul style="list-style-type: none">• 20 mm (35 mm format equivalent) f/2.8 focus at ∞• 9 elements in 9 groups• Anti-distortion
Still photography modes	<ul style="list-style-type: none">• Single shoot• Burst shooting: 3/5/7 frames• Auto exposure bracketing (AEB): 3/5 bracketed frames at 0.7 EV bias• Time-lapse
Video recording modes	<ul style="list-style-type: none">• UHD (4K): 4096x2160p24/25, 3840x2160p24/25/30• FHD: 1920x1080p24/25/30/48/50/60• HD: 1280x720p24/25/30/48/50/60
Max. bit rate of video storage	60 Mbps
Supported file formats	<ul style="list-style-type: none">• FAT32/exFAT• Photo: JPEG, DNG• Video: MP4/MOV (MPEG-4 AVC/H.264)
Supported SD card types	<ul style="list-style-type: none">• Micro SD• Max. capacity: 64 GB. Class 10 or UHS-1 rating required.
Operating temperature range	0 to +40°C (+32 to +104°F)

Image processing and display controls	
NTSC/PAL (field switchable)	Yes
Image optimization	Yes
Digital detail	Yes

Enhancement	
Polarity control (black hot/white hot)	Yes
Color and monochrome palettes (LUTs)	Yes
Digital zoom	2x, 4x, 8x

Lens model	
Focal length	13 mm
f number	f/1.25
FoV	45° x 37°
iFoV	1.308 mrad
Minimum focus distance	7.6 cm (3.0 in.)
Hyperfocal distance	4.4 m (14.4 ft.)
Hyperfocal depth of field	2.2 m (7.2 ft.)

Environmental	
Operating temperature range	-10 to +40°C (+14 to +104°F)
Non-operating temperature range	-30 to +70°C (-22 to +158°F)
Temperature shock	5°C/min (41°F/min)
Humidity	5-95%

Certifications	
Compliance	http://www.dji.com/euro-compliance



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Remote controller	
Name	C1
Operating frequency	<ul style="list-style-type: none">922.7–927.7 MHz (Japan only)5.725–5.825 GHz2.400–2.483 GHz
Transmitting distance	<ul style="list-style-type: none">Up to 5.0 km (3.1 miles) (unobstructed, free of interferences and FCC compliant) when it is FCC compliantUp to 3.5 km (2.1 miles) (unobstructed, free of interferences) when it is CE compliant
EIRP	<ul style="list-style-type: none">10 dBm @ 900 m13 dBm @ 5.8 G20 dBm @ 2.4 G
Video output port	USB, Mini-HDMI
Power supply	Built-in battery
Charging	DJI charger
Dual-user capability	Host-and-slave connection
Mobile device holder	Tablet or smart phone
Output power	9 W
Operating temperature range	-10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: -20 to +45°C (-4 to 113°F)More than 3 months: 22–28°C (72–82°F)
Charging temperature range	0–40°C (32–104°F)
Battery	6000 mA h LiPo 2S

Charger	
Model	A14-100P1A
Voltage	26.3 V
Rated power	100 W

Battery (standard)	
Name	Intelligent flight battery
Model	TB47
Capacity	4500 mA h
Voltage	22.2 V
Battery type	LiPo 6S high-voltage battery
Energy	99.9 W h
Net weight	570 g
Operating temperature range	-10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: -20 to +45°C (-4 to 113°F)More than 3 months: 22–28°C (72–82°F)
Charging temperature range	0–40°C (32–104°F)
Maximum charging power	180 W
Maximum number of charging cycles	200

Battery (optional)	
Name	Intelligent flight battery
Model	TB48



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Battery (optional)	
Capacity	5700 mA h
Voltage	22.8 V
Battery type	LiPo 6S
Energy	129.96 W h
Net weight	670 g
Operating temperature range	-10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: -20 to +45°C (-4 to 113°F)More than 3 months: 22-28°C (72-82°F)
Charging temperature range	0-40°C (32-104°F)
Maximum charging power	180 W
Maximum number of charging cycles	200

Vision positioning	
Velocity range	Below 8 m/s (26 ft./s) (2 m (6.6 ft.) above ground)
Altitude range	5-500 cm (2.0-200 in.)
Operating environment	Brightly lit (lux > 15) patterned surfaces
Operating range	0-300 cm (0-120 in.)

DJI GO app	
Mobile device system requirements	<ul style="list-style-type: none">iOS version 7.1 or laterAndroid version 4.1.2 or later
Supported mobile devices	<ul style="list-style-type: none">iPhone 6 PlusiPhone 6iPhone 5SiPad Air 2iPad Mini 3iPad AiriPad Mini 2iPad 4Samsung Note 3Samsung S5Sony Z3 EXPERIA <p>NOTE: It is recommended that you use a tablet for the best experience</p>

Documentation and firmware	
Download link	http://tinyurl.com/z8esgtc

Warranty	
Warranty	http://www.dji.com/service#warranty_period

Global trade data	
HS Code	<ul style="list-style-type: none">8802200015 (Inspire 1)9032896085 (Zenmuse XT)
ECCN code	6A993.a (Zenmuse XT)

Shipping information	
Packaging type	Cardboard box



FLIR Aerial Commercial Building Inspector Kit w/out iPad, R (9 Hz)

P/N: 76504-1406

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Shipping information

List of contents

- Inspire T600 aircraft
- Zenmuse XT thermal camera with stabilized gimbal
- Zenmuse X3 video camera with stabilized gimbal
- Controller
- Battery (x2)
- FLIR Tools+
- Monitor hood
- Rugged carry case
- Landing Pad

P/N: 75604-1404

Revision

38391

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Website

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Customer support

<http://support.flir.com>



Aircraft	
Model	Inspire 1 – T600
Weight (battery included)	2935 g (6.471 lb.)
Hovering accuracy (P mode)	<ul style="list-style-type: none"> Vertical: 0.5 m (1.6 ft.) Horizontal: 2.5 m (8.2 ft.)
Maximum angular velocity	<ul style="list-style-type: none"> Pitch: 300°/s Yaw: 150°/s
Maximum tilt angle	35°
Maximum ascent speed	5 m/s (16 ft./s)
Maximum descent speed	4 m/s (13 ft./s)
Maximum speed	22 m/s (72 ft./s) (ATTI mode, no wind)
Maximum service ceiling above sea level	4500 m (14 700 ft.) (software altitude limit: 120 m (390 ft.) above takeoff point)
Maximum wind speed resistance	10 m/s (32 ft./s)
Maximum flight time	Approximately 18 minutes
Motor model	DJI 3510
Propeller model	DJI 1345T
Indoor hovering	Enabled by default
Operating temperature range	-10 to +40°C (+14 to +104°F)
Diagonal distance	559–581 mm (22.0–22.8 in.)
Dimensions	438 mm × 451 mm × 301 mm (17.2 in. × 17.8 in. × 11.9 in.)

Gimbal (Zenmuse XT)	
Name	Zenmuse XT
Dimensions	103 mm × 74 mm × 102 mm (4.1 in. × 2.9 in. × 4.0 in.)
Weight	270 g (0.60 lb.)
Angular vibration range	±0.03°
Mount	Detachable
Controllable range	<ul style="list-style-type: none"> Tilt: +35° to -90° Pan: ±320° Roll: ±15°
Mechanical range	<ul style="list-style-type: none"> Tilt: +45° to -135° Pan: ±320° Roll: ±45°
Maximum controllable speed	120°/s



FLIR Aerial Commercial Building Inspector Kit, R (30 Hz)

P/N: 75604-1404

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Website

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Customer support

<http://support.flir.com>

Gimbal (Zenmuse X3)	
Model	Zenmuse X3
Output power (with camera)	<ul style="list-style-type: none">• Static: 9 W• In motion: 11 W
Operating current	<ul style="list-style-type: none">• Station: 750 mA• Motion: 900 mA
Angular vibration range	±0.03°
Mounting	Detachable
Controllable range	<ul style="list-style-type: none">• Pitch: -90° to +30°• Pan: ±320°
Mechanical range	<ul style="list-style-type: none">• Pitch: -125° to +45°• Pan: ±330°
Max. controllable speed	<ul style="list-style-type: none">• Pitch: 120°/s• Pan: 180°/s

Camera (Zenmuse XT)	
Thermal imager	Uncooled VOx microbolometer
FPA/digital video display formats	640 × 512 pixels
Analog video display formats	<ul style="list-style-type: none">• 720 × 480 pixels (NTSC)• 720 × 576 pixels (PAL)
Pixel pitch	17 μm
Spectral band	7.5–13.5 μm
Frame rates	<ul style="list-style-type: none">• 30 Hz (NTSC)• 25 Hz (PAL)
Sensitivity (NEΔT)	<50 mK at f/1.0
Accuracy	±5°C (±9°F)
Scene range (high gain)	-25 to +135°C (-13 to +275°F)
Scene range (low gain)	-40 to 550°C (-40 to +1022°F)
Measurement area	Temperatures measured in the full image
File storage	Micro SD card. 16 GB Class 10 included, up to 32 GB supported.
Data logging	<ul style="list-style-type: none">• 8-bit AGC + LUT video at camera frame rate packaged in either .MOV or .MP4 wrappers.• 8-bit AGC + LUT still images in .JPG.• 14-bit TIFF raw still images with FLIR-specified metadata.

Camera (Zenmuse X3)	
Name	X3
Model	FC350
Total pixels	12.76 Mpixel
Effective pixels	12.4 Mpixel
Image max. size	4000 × 3000
ISO range	<ul style="list-style-type: none">• 100–3200 (video)• 100–1600 (photo)
Electronic shutter speed	8 s to 1/8000 s
FOV (field of view)	94°
CMOS	Sony EXMOR 1/2.3"



FLIR Aerial Commercial Building Inspector Kit, R (30 Hz)

P/N: 75604-1404

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Website

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Customer support

<http://support.flir.com>

Camera (Zemuse X3)	
Lens	<ul style="list-style-type: none">• 20 mm (35 mm format equivalent) f/2.8 focus at ∞• 9 elements in 9 groups• Anti-distortion
Still photography modes	<ul style="list-style-type: none">• Single shoot• Burst shooting: 3/5/7 frames• Auto exposure bracketing (AEB): 3/5 bracketed frames at 0.7 EV bias• Time-lapse
Video recording modes	<ul style="list-style-type: none">• UHD (4K): 4096x2160p24/25, 3840x2160p24/25/30• FHD: 1920x1080p24/25/30/48/50/60• HD: 1280x720p24/25/30/48/50/60
Max. bit rate of video storage	60 Mbps
Supported file formats	<ul style="list-style-type: none">• FAT32/exFAT• Photo: JPEG, DNG• Video: MP4/MOV (MPEG-4 AVC/H.264)
Supported SD card types	<ul style="list-style-type: none">• Micro SD• Max. capacity: 64 GB. Class 10 or UHS-1 rating required.
Operating temperature range	0 to +40°C (+32 to +104°F)

Image processing and display controls	
NTSC/PAL (field switchable)	Yes
Image optimization	Yes
Digital detail	Yes

Enhancement	
Polarity control (black hot/white hot)	Yes
Color and monochrome palettes (LUTs)	Yes
Digital zoom	2x, 4x, 8x

Lens model	
Focal length	13 mm
f number	f/1.25
FoV	45° x 37°
iFoV	1.308 mrad
Minimum focus distance	7.6 cm (3.0 in.)
Hyperfocal distance	4.4 m (14.4 ft.)
Hyperfocal depth of field	2.2 m (7.2 ft.)

Environmental	
Operating temperature range	-10 to +40°C (+14 to +104°F)
Non-operating temperature range	-30 to +70°C (-22 to +158°F)
Temperature shock	5°C/min (41°F/min)
Humidity	5-95%

Certifications	
Compliance	http://www.dji.com/euro-compliance



FLIR Aerial Commercial Building Inspector Kit, R (30 Hz)

P/N: 75604-1404

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Remote controller	
Name	C1
Operating frequency	<ul style="list-style-type: none">922.7–927.7 MHz (Japan only)5.725–5.825 GHz2.400–2.483 GHz
Transmitting distance	<ul style="list-style-type: none">Up to 5.0 km (3.1 miles) (unobstructed, free of interferences and FCC compliant) when it is FCC compliantUp to 3.5 km (2.1 miles) (unobstructed, free of interferences) when it is CE compliant
EIRP	<ul style="list-style-type: none">10 dBm @ 900 m13 dBm @ 5.8 G20 dBm @ 2.4 G
Video output port	USB, Mini-HDMI
Power supply	Built-in battery
Charging	DJI charger
Dual-user capability	Host-and-slave connection
Mobile device holder	Tablet or smart phone
Output power	9 W
Operating temperature range	-10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: -20 to +45°C (-4 to 113°F)More than 3 months: 22–28°C (72–82°F)
Charging temperature range	0–40°C (32–104°F)
Battery	6000 mA h LiPo 2S

Charger	
Model	A14-100P1A
Voltage	26.3 V
Rated power	100 W

Battery (standard)	
Name	Intelligent flight battery
Model	TB47
Capacity	4500 mA h
Voltage	22.2 V
Battery type	LiPo 6S high-voltage battery
Energy	99.9 W h
Net weight	570 g
Operating temperature range	-10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: -20 to +45°C (-4 to 113°F)More than 3 months: 22–28°C (72–82°F)
Charging temperature range	0–40°C (32–104°F)
Maximum charging power	180 W
Maximum number of charging cycles	200

Battery (optional)	
Name	Intelligent flight battery
Model	TB48



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Website

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Customer support

<http://support.flir.com>

Battery (optional)	
Capacity	5700 mA h
Voltage	22.8 V
Battery type	LiPo 6S
Energy	129.96 W h
Net weight	670 g
Operating temperature range	-10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">• Less than 3 months: -20 to +45°C (-4 to 113°F)• More than 3 months: 22-28°C (72-82°F)
Charging temperature range	0-40°C (32-104°F)
Maximum charging power	180 W
Maximum number of charging cycles	200

Vision positioning	
Velocity range	Below 8 m/s (26 ft./s) (2 m (6.6 ft.) above ground)
Altitude range	5-500 cm (2.0-200 in.)
Operating environment	Brightly lit (lux > 15) patterned surfaces
Operating range	0-300 cm (0-120 in.)

DJI GO app	
Mobile device system requirements	<ul style="list-style-type: none">• iOS version 7.1 or later• Android version 4.1.2 or later
Supported mobile devices	<ul style="list-style-type: none">• iPhone 6 Plus• iPhone 6• iPhone 5S• iPad Air 2• iPad Mini 3• iPad Air• iPad Mini 2• iPad 4• Samsung Note 3• Samsung S5• Sony Z3 EXPERIA <p>NOTE: It is recommended that you use a tablet for the best experience</p>

Documentation and firmware	
Download link	http://tinyurl.com/z8esgtc

Warranty	
Warranty	http://www.dji.com/service#warranty_period

Global trade data	
HS Code	<ul style="list-style-type: none">• 8802200015 (Inspire 1)• 9032896085 (Zenmuse XT)
ECCN code	6A003.b.4.b. (Zenmuse XT)

Shipping information	
Packaging type	Cardboard box



FLIR Aerial Commercial Building Inspector Kit, R (30 Hz)

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Website

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Customer support

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Shipping information

List of contents

- Inspire T600 aircraft
- Zenmuse XT thermal camera with stabilized gimbal
- Zenmuse X3 video camera with stabilized gimbal
- Controller
- Battery (x2)
- FLIR Tools+
- iPad Mini 4 (128 GB, Wi-Fi and cellular)
- Monitor hood
- Rugged carry case
- Landing Pad

P/N: 76504-1404

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Website

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Customer support

<http://support.flir.com>



Aircraft	
Model	Inspire 1 – T600
Weight (battery included)	2935 g (6.471 lb.)
Hovering accuracy (P mode)	<ul style="list-style-type: none"> Vertical: 0.5 m (1.6 ft.) Horizontal: 2.5 m (8.2 ft.)
Maximum angular velocity	<ul style="list-style-type: none"> Pitch: 300°/s Yaw: 150°/s
Maximum tilt angle	35°
Maximum ascent speed	5 m/s (16 ft./s)
Maximum descent speed	4 m/s (13 ft./s)
Maximum speed	22 m/s (72 ft./s) (ATTI mode, no wind)
Maximum service ceiling above sea level	4500 m (14 700 ft.) (software altitude limit: 120 m (390 ft.) above takeoff point)
Maximum wind speed resistance	10 m/s (32 ft./s)
Maximum flight time	Approximately 18 minutes
Motor model	DJI 3510
Propeller model	DJI 1345T
Indoor hovering	Enabled by default
Operating temperature range	-10 to +40°C (+14 to +104°F)
Diagonal distance	559–581 mm (22.0–22.8 in.)
Dimensions	438 mm × 451 mm × 301 mm (17.2 in. × 17.8 in. × 11.9 in.)

Gimbal (Zenmuse XT)	
Name	Zenmuse XT
Dimensions	103 mm × 74 mm × 102 mm (4.1 in. × 2.9 in. × 4.0 in.)
Weight	270 g (0.60 lb.)
Angular vibration range	±0.03°
Mount	Detachable
Controllable range	<ul style="list-style-type: none"> Tilt: +35° to -90° Pan: ±320° Roll: ±15°
Mechanical range	<ul style="list-style-type: none"> Tilt: +45° to -135° Pan: ±320° Roll: ±45°
Maximum controllable speed	120°/s



FLIR Aerial Commercial Building Inspector Kit, R (9 Hz)

P/N: 76504-1404

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Website

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Customer support

<http://support.flir.com>

Gimbal (Zenmuse X3)	
Model	Zenmuse X3
Output power (with camera)	<ul style="list-style-type: none">• Static: 9 W• In motion: 11 W
Operating current	<ul style="list-style-type: none">• Station: 750 mA• Motion: 900 mA
Angular vibration range	±0.03°
Mounting	Detachable
Controllable range	<ul style="list-style-type: none">• Pitch: -90° to +30°• Pan: ±320°
Mechanical range	<ul style="list-style-type: none">• Pitch: -125° to +45°• Pan: ±330°
Max. controllable speed	<ul style="list-style-type: none">• Pitch: 120°/s• Pan: 180°/s

Camera (Zenmuse XT)	
Thermal imager	Uncooled VOx microbolometer
FPA/digital video display formats	640 × 512 pixels
Analog video display formats	<ul style="list-style-type: none">• 720 × 480 pixels (NTSC)• 720 × 576 pixels (PAL)
Pixel pitch	17 µm
Spectral band	7.5–13.5 µm
Frame rates	<ul style="list-style-type: none">• 7.5 Hz (NTSC)• 8.3 Hz (PAL)
Sensitivity (NEΔT)	<50 mK at f/1.0
Accuracy	±5°C (±9°F)
Scene range (high gain)	-25 to +135°C (-13 to +275°F)
Scene range (low gain)	-40 to 550°C (-40 to +1022°F)
Measurement area	Temperatures measured in the full image
File storage	Micro SD card. 16 GB Class 10 included, up to 32 GB supported.
Data logging	<ul style="list-style-type: none">• 8-bit AGC + LUT video at camera frame rate packaged in either .MOV or .MP4 wrappers.• 8-bit AGC + LUT still images in .JPG.• 14-bit TIFF raw still images with FLIR-specified metadata.

Camera (Zenmuse X3)	
Name	X3
Model	FC350
Total pixels	12.76 Mpixel
Effective pixels	12.4 Mpixel
Image max. size	4000 × 3000
ISO range	<ul style="list-style-type: none">• 100–3200 (video)• 100–1600 (photo)
Electronic shutter speed	8 s to 1/8000 s
FOV (field of view)	94°
CMOS	Sony EXMOR 1/2.3"



FLIR Aerial Commercial Building Inspector Kit, R (9 Hz)

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Website

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Customer support

<http://support.flir.com>

Camera (Zemuse X3)	
Lens	<ul style="list-style-type: none">• 20 mm (35 mm format equivalent) f/2.8 focus at ∞• 9 elements in 9 groups• Anti-distortion
Still photography modes	<ul style="list-style-type: none">• Single shoot• Burst shooting: 3/5/7 frames• Auto exposure bracketing (AEB): 3/5 bracketed frames at 0.7 EV bias• Time-lapse
Video recording modes	<ul style="list-style-type: none">• UHD (4K): 4096x2160p24/25, 3840x2160p24/25/30• FHD: 1920x1080p24/25/30/48/50/60• HD: 1280x720p24/25/30/48/50/60
Max. bit rate of video storage	60 Mbps
Supported file formats	<ul style="list-style-type: none">• FAT32/exFAT• Photo: JPEG, DNG• Video: MP4/MOV (MPEG-4 AVC/H.264)
Supported SD card types	<ul style="list-style-type: none">• Micro SD• Max. capacity: 64 GB. Class 10 or UHS-1 rating required.
Operating temperature range	0 to +40°C (+32 to +104°F)

Image processing and display controls	
NTSC/PAL (field switchable)	Yes
Image optimization	Yes
Digital detail	Yes

Enhancement	
Polarity control (black hot/white hot)	Yes
Color and monochrome palettes (LUTs)	Yes
Digital zoom	2x, 4x, 8x

Lens model	
Focal length	13 mm
f number	f/1.25
FoV	45° x 37°
iFoV	1.308 mrad
Minimum focus distance	7.6 cm (3.0 in.)
Hyperfocal distance	4.4 m (14.4 ft.)
Hyperfocal depth of field	2.2 m (7.2 ft.)

Environmental	
Operating temperature range	-10 to +40°C (+14 to +104°F)
Non-operating temperature range	-30 to +70°C (-22 to +158°F)
Temperature shock	5°C/min (41°F/min)
Humidity	5-95%

Certifications	
Compliance	http://www.dji.com/euro-compliance



FLIR Aerial Commercial Building Inspector Kit, R (9 Hz)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Remote controller	
Name	C1
Operating frequency	<ul style="list-style-type: none">922.7–927.7 MHz (Japan only)5.725–5.825 GHz2.400–2.483 GHz
Transmitting distance	<ul style="list-style-type: none">Up to 5.0 km (3.1 miles) (unobstructed, free of interferences and FCC compliant) when it is FCC compliantUp to 3.5 km (2.1 miles) (unobstructed, free of interferences) when it is CE compliant
EIRP	<ul style="list-style-type: none">10 dBm @ 900 m13 dBm @ 5.8 G20 dBm @ 2.4 G
Video output port	USB, Mini-HDMI
Power supply	Built-in battery
Charging	DJI charger
Dual-user capability	Host-and-slave connection
Mobile device holder	Tablet or smart phone
Output power	9 W
Operating temperature range	–10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: –20 to +45°C (–4 to 113°F)More than 3 months: 22–28°C (72–82°F)
Charging temperature range	0–40°C (32–104°F)
Battery	6000 mA h LiPo 2S

Charger	
Model	A14-100P1A
Voltage	26.3 V
Rated power	100 W

Battery (standard)	
Name	Intelligent flight battery
Model	TB47
Capacity	4500 mA h
Voltage	22.2 V
Battery type	LiPo 6S high-voltage battery
Energy	99.9 W h
Net weight	570 g
Operating temperature range	–10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: –20 to +45°C (–4 to 113°F)More than 3 months: 22–28°C (72–82°F)
Charging temperature range	0–40°C (32–104°F)
Maximum charging power	180 W
Maximum number of charging cycles	200

Battery (optional)	
Name	Intelligent flight battery
Model	TB48



FLIR Aerial Commercial Building Inspector Kit, R (9 Hz)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Battery (optional)	
Capacity	5700 mA h
Voltage	22.8 V
Battery type	LiPo 6S
Energy	129.96 W h
Net weight	670 g
Operating temperature range	-10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: -20 to +45°C (-4 to 113°F)More than 3 months: 22-28°C (72-82°F)
Charging temperature range	0-40°C (32-104°F)
Maximum charging power	180 W
Maximum number of charging cycles	200

Vision positioning	
Velocity range	Below 8 m/s (26 ft./s) (2 m (6.6 ft.) above ground)
Altitude range	5-500 cm (2.0-200 in.)
Operating environment	Brightly lit (lux > 15) patterned surfaces
Operating range	0-300 cm (0-120 in.)

DJI GO app	
Mobile device system requirements	<ul style="list-style-type: none">iOS version 7.1 or laterAndroid version 4.1.2 or later
Supported mobile devices	<ul style="list-style-type: none">iPhone 6 PlusiPhone 6iPhone 5SiPad Air 2iPad Mini 3iPad AiriPad Mini 2iPad 4Samsung Note 3Samsung S5Sony Z3 EXPERIA <p>NOTE: It is recommended that you use a tablet for the best experience</p>

Documentation and firmware	
Download link	http://tinyurl.com/z8esgtc

Warranty	
Warranty	http://www.dji.com/service#warranty_period

Global trade data	
HS Code	<ul style="list-style-type: none">8802200015 (Inspire 1)9032896085 (Zenmuse XT)
ECCN code	6A993.a (Zenmuse XT)

Shipping information	
Packaging type	Cardboard box



FLIR Aerial Commercial Building Inspector Kit, R (9 Hz)

P/N: 76504-1404

Revision

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Website

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Customer support

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Shipping information

List of contents

- Inspire T600 aircraft
- Zenmuse XT thermal camera with stabilized gimbal
- Zenmuse X3 video camera with stabilized gimbal
- Controller
- Battery (x2)
- FLIR Tools+
- iPad Mini 4 (128 GB, Wi-Fi and cellular)
- Monitor hood
- Rugged carry case
- Landing Pad

P/N: 75603-0303

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Website

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Aircraft	
Model	Inspire 1 – T600
Weight (battery included)	2935 g (6.471 lb.)
Hovering accuracy (P mode)	<ul style="list-style-type: none"> Vertical: 0.5 m (1.6 ft.) Horizontal: 2.5 m (8.2 ft.)
Maximum angular velocity	<ul style="list-style-type: none"> Pitch: 300°/s Yaw: 150°/s
Maximum tilt angle	35°
Maximum ascent speed	5 m/s (16 ft./s)
Maximum descent speed	4 m/s (13 ft./s)
Maximum speed	22 m/s (72 ft./s) (ATTI mode, no wind)
Maximum service ceiling above sea level	4500 m (14 700 ft.) (software altitude limit: 120 m (390 ft.) above takeoff point)
Maximum wind speed resistance	10 m/s (32 ft./s)
Maximum flight time	Approximately 18 minutes
Motor model	DJI 3510
Propeller model	DJI 1345T
Indoor hovering	Enabled by default
Operating temperature range	-10 to +40°C (+14 to +104°F)
Diagonal distance	559–581 mm (22.0–22.8 in.)
Dimensions	438 mm × 451 mm × 301 mm (17.2 in. × 17.8 in. × 11.9 in.)

Gimbal (Zenmuse XT)	
Name	Zenmuse XT
Dimensions	103 mm × 74 mm × 102 mm (4.1 in. × 2.9 in. × 4.0 in.)
Weight	270 g (0.60 lb.)
Angular vibration range	±0.03°
Mount	Detachable
Controllable range	<ul style="list-style-type: none"> Tilt: +35° to -90° Pan: ±320° Roll: ±15°
Mechanical range	<ul style="list-style-type: none"> Tilt: +45° to -135° Pan: ±320° Roll: ±45°
Maximum controllable speed	120°/s



FLIR Aerial First Responder Advanced Kit (30 Hz)

P/N: 75603-0303

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Website

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Customer support

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Gimbal (Zenmuse X3)	
Model	Zenmuse X3
Output power (with camera)	<ul style="list-style-type: none">• Static: 9 W• In motion: 11 W
Operating current	<ul style="list-style-type: none">• Station: 750 mA• Motion: 900 mA
Angular vibration range	±0.03°
Mounting	Detachable
Controllable range	<ul style="list-style-type: none">• Pitch: -90° to +30°• Pan: ±320°
Mechanical range	<ul style="list-style-type: none">• Pitch: -125° to +45°• Pan: ±330°
Max. controllable speed	<ul style="list-style-type: none">• Pitch: 120°/s• Pan: 180°/s

Camera (Zenmuse XT)	
Thermal imager	Uncooled VOx microbolometer
FPA/digital video display formats	640 × 512 pixels
Analog video display formats	<ul style="list-style-type: none">• 720 × 480 pixels (NTSC)• 720 × 576 pixels (PAL)
Pixel pitch	17 µm
Spectral band	7.5–13.5 µm
Frame rates	<ul style="list-style-type: none">• 30 Hz (NTSC)• 25 Hz (PAL)
Sensitivity (NEΔT)	<50 mK at f/1.0
Accuracy	±20°C (±36°F)
Scene range (high gain)	-25 to +135°C (-13 to +275°F)
Scene range (low gain)	-40 to 550°C (-40 to +1022°F)
Spot meter	Temperatures measured in central 4 × 4 pixels
File storage	Micro SD card. 16 GB Class 10 included, up to 32 GB supported.
Data logging	<ul style="list-style-type: none">• 8-bit AGC + LUT video at camera frame rate packaged in either .MOV or .MP4 wrappers.• 8-bit AGC + LUT still images in .JPG.• 14-bit TIFF raw still images with FLIR-specified metadata.

Camera (Zenmuse X3)	
Name	X3
Model	FC350
Total pixels	12.76 Mpixel
Effective pixels	12.4 Mpixel
Image max. size	4000 × 3000
ISO range	<ul style="list-style-type: none">• 100–3200 (video)• 100–1600 (photo)
Electronic shutter speed	8 s to 1/8000 s
FOV (field of view)	94°
CMOS	Sony EXMOR 1/2.3"



FLIR Aerial First Responder Advanced Kit (30 Hz)

P/N: 75603-0303

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Website

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Customer support

<http://support.flir.com>

Camera (Zemuse X3)	
Lens	<ul style="list-style-type: none">• 20 mm (35 mm format equivalent) f/2.8 focus at ∞• 9 elements in 9 groups• Anti-distortion
Still photography modes	<ul style="list-style-type: none">• Single shoot• Burst shooting: 3/5/7 frames• Auto exposure bracketing (AEB): 3/5 bracketed frames at 0.7 EV bias• Time-lapse
Video recording modes	<ul style="list-style-type: none">• UHD (4K): 4096x2160p24/25, 3840x2160p24/25/30• FHD: 1920x1080p24/25/30/48/50/60• HD: 1280x720p24/25/30/48/50/60
Max. bit rate of video storage	60 Mbps
Supported file formats	<ul style="list-style-type: none">• FAT32/exFAT• Photo: JPEG, DNG• Video: MP4/MOV (MPEG-4 AVC/H.264)
Supported SD card types	<ul style="list-style-type: none">• Micro SD• Max. capacity: 64 GB. Class 10 or UHS-1 rating required.
Operating temperature range	0 to +40°C (+32 to +104°F)

Image processing and display controls	
NTSC/PAL (field switchable)	Yes
Image optimization	Yes
Digital detail	Yes

Enhancement	
Polarity control (black hot/white hot)	Yes
Color and monochrome palettes (LUTs)	Yes
Digital zoom	2x, 4x, 8x

Lens model	
Focal length	13 mm
f number	f/1.25
FoV	45° x 37°
iFoV	1.308 mrad
Minimum focus distance	7.6 cm (3.0 in.)
Hyperfocal distance	4.4 m (14.4 ft.)
Hyperfocal depth of field	2.2 m (7.2 ft.)

Environmental	
Operating temperature range	-10 to +40°C (+14 to +104°F)
Non-operating temperature range	-30 to +70°C (-22 to +158°F)
Temperature shock	5°C/min (41°F/min)
Humidity	5-95%

Certifications	
Compliance	http://www.dji.com/euro-compliance



FLIR Aerial First Responder Advanced Kit (30 Hz)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Remote controller	
Name	C1
Operating frequency	<ul style="list-style-type: none">922.7–927.7 MHz (Japan only)5.725–5.825 GHz2.400–2.483 GHz
Transmitting distance	<ul style="list-style-type: none">Up to 5.0 km (3.1 miles) (unobstructed, free of interferences and FCC compliant) when it is FCC compliantUp to 3.5 km (2.1 miles) (unobstructed, free of interferences) when it is CE compliant
EIRP	<ul style="list-style-type: none">10 dBm @ 900 m13 dBm @ 5.8 G20 dBm @ 2.4 G
Video output port	USB, Mini-HDMI
Power supply	Built-in battery
Charging	DJI charger
Dual-user capability	Host-and-slave connection
Mobile device holder	Tablet or smart phone
Output power	9 W
Operating temperature range	–10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: –20 to +45°C (–4 to 113°F)More than 3 months: 22–28°C (72–82°F)
Charging temperature range	0–40°C (32–104°F)
Battery	6000 mA h LiPo 2S

Charger	
Model	A14-100P1A
Voltage	26.3 V
Rated power	100 W

Battery (standard)	
Name	Intelligent flight battery
Model	TB47
Capacity	4500 mA h
Voltage	22.2 V
Battery type	LiPo 6S high-voltage battery
Energy	99.9 W h
Net weight	570 g
Operating temperature range	–10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: –20 to +45°C (–4 to 113°F)More than 3 months: 22–28°C (72–82°F)
Charging temperature range	0–40°C (32–104°F)
Maximum charging power	180 W
Maximum number of charging cycles	200

Battery (optional)	
Name	Intelligent flight battery
Model	TB48



FLIR Aerial First Responder Advanced Kit (30 Hz)

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Website

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Customer support

<http://support.flir.com>

Battery (optional)	
Capacity	5700 mA h
Voltage	22.8 V
Battery type	LiPo 6S
Energy	129.96 W h
Net weight	670 g
Operating temperature range	-10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: -20 to +45°C (-4 to 113°F)More than 3 months: 22-28°C (72-82°F)
Charging temperature range	0-40°C (32-104°F)
Maximum charging power	180 W
Maximum number of charging cycles	200

Vision positioning	
Velocity range	Below 8 m/s (26 ft./s) (2 m (6.6 ft.) above ground)
Altitude range	5-500 cm (2.0-200 in.)
Operating environment	Brightly lit (lux > 15) patterned surfaces
Operating range	0-300 cm (0-120 in.)

DJI GO app	
Mobile device system requirements	<ul style="list-style-type: none">iOS version 7.1 or laterAndroid version 4.1.2 or later
Supported mobile devices	<ul style="list-style-type: none">iPhone 6 PlusiPhone 6iPhone 5SiPad Air 2iPad Mini 3iPad AiriPad Mini 2iPad 4Samsung Note 3Samsung S5Sony Z3 EXPERIA <p>NOTE: It is recommended that you use a tablet for the best experience</p>

Documentation and firmware	
Download link	http://tinyurl.com/z8esgtc

Warranty	
Warranty	http://www.dji.com/service#warranty_period

Global trade data	
HS Code	<ul style="list-style-type: none">8802200015 (Inspire 1)9032896085 (Zenmuse XT)
ECCN code	6A003.b.4.b. (Zenmuse XT)

Shipping information	
Packaging type	Cardboard box



FLIR Aerial First Responder Advanced Kit (30 Hz)

P/N: 75603-0303

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Website

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Customer support

<http://support.flir.com>

Shipping information

List of contents

- Inspire T600 aircraft
- Zenmuse XT thermal camera with stabilized gimbal
- Zenmuse X3 video camera with stabilized gimbal
- Controllers (x2, one for the operator and one for the pilot)
- Battery (x3)
- FLIR Tools+
- iPad Mini 4 (128 GB, Wi-Fi and cellular) (x2)
- Monitor hood (x2)
- Landing pad
- Rugged carry case (x2)
- Landing Pad

P/N: 76503-0303

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Website

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Customer support

<http://support.flir.com>



Aircraft	
Model	Inspire 1 – T600
Weight (battery included)	2935 g (6.471 lb.)
Hovering accuracy (P mode)	<ul style="list-style-type: none"> Vertical: 0.5 m (1.6 ft.) Horizontal: 2.5 m (8.2 ft.)
Maximum angular velocity	<ul style="list-style-type: none"> Pitch: 300°/s Yaw: 150°/s
Maximum tilt angle	35°
Maximum ascent speed	5 m/s (16 ft./s)
Maximum descent speed	4 m/s (13 ft./s)
Maximum speed	22 m/s (72 ft./s) (ATTI mode, no wind)
Maximum service ceiling above sea level	4500 m (14 700 ft.) (software altitude limit: 120 m (390 ft.) above takeoff point)
Maximum wind speed resistance	10 m/s (32 ft./s)
Maximum flight time	Approximately 18 minutes
Motor model	DJI 3510
Propeller model	DJI 1345T
Indoor hovering	Enabled by default
Operating temperature range	-10 to +40°C (+14 to +104°F)
Diagonal distance	559–581 mm (22.0–22.8 in.)
Dimensions	438 mm × 451 mm × 301 mm (17.2 in. × 17.8 in. × 11.9 in.)

Gimbal (Zenmuse XT)	
Name	Zenmuse XT
Dimensions	103 mm × 74 mm × 102 mm (4.1 in. × 2.9 in. × 4.0 in.)
Weight	270 g (0.60 lb.)
Angular vibration range	±0.03°
Mount	Detachable
Controllable range	<ul style="list-style-type: none"> Tilt: +35° to -90° Pan: ±320° Roll: ±15°
Mechanical range	<ul style="list-style-type: none"> Tilt: +45° to -135° Pan: ±320° Roll: ±45°
Maximum controllable speed	120°/s



FLIR Aerial First Responder Advanced Kit (9 Hz)

P/N: 76503-0303

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Website

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Customer support

<http://support.flir.com>

Gimbal (Zenmuse X3)	
Model	Zenmuse X3
Output power (with camera)	<ul style="list-style-type: none">• Static: 9 W• In motion: 11 W
Operating current	<ul style="list-style-type: none">• Station: 750 mA• Motion: 900 mA
Angular vibration range	±0.03°
Mounting	Detachable
Controllable range	<ul style="list-style-type: none">• Pitch: -90° to +30°• Pan: ±320°
Mechanical range	<ul style="list-style-type: none">• Pitch: -125° to +45°• Pan: ±330°
Max. controllable speed	<ul style="list-style-type: none">• Pitch: 120°/s• Pan: 180°/s

Camera (Zenmuse XT)	
Thermal imager	Uncooled VOx microbolometer
FPA/digital video display formats	640 × 512 pixels
Analog video display formats	<ul style="list-style-type: none">• 720 × 480 pixels (NTSC)• 720 × 576 pixels (PAL)
Pixel pitch	17 μm
Spectral band	7.5–13.5 μm
Frame rates	<ul style="list-style-type: none">• 7.5 Hz NTSC• 8.3 Hz PAL
Sensitivity (NEΔT)	<50 mK at f/1.0
Accuracy	±20°C (±36°F)
Scene range (high gain)	-25 to +135°C (-13 to +275°F)
Scene range (low gain)	-40 to 550°C (-40 to +1022°F)
Spot meter	Temperatures measured in central 4 × 4 pixels
File storage	Micro SD card. 16 GB Class 10 included, up to 32 GB supported.
Data logging	<ul style="list-style-type: none">• 8-bit AGC + LUT video at camera frame rate packaged in either .MOV or .MP4 wrappers.• 8-bit AGC + LUT still images in .JPG.• 14-bit TIFF raw still images with FLIR-specified metadata.

Camera (Zenmuse X3)	
Name	X3
Model	FC350
Total pixels	12.76 Mpixel
Effective pixels	12.4 Mpixel
Image max. size	4000 × 3000
ISO range	<ul style="list-style-type: none">• 100–3200 (video)• 100–1600 (photo)
Electronic shutter speed	8 s to 1/8000 s
FOV (field of view)	94°
CMOS	Sony EXMOR 1/2.3"



FLIR Aerial First Responder Advanced Kit (9 Hz)

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Website

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Camera (Zemuse X3)	
Lens	<ul style="list-style-type: none">20 mm (35 mm format equivalent) f/2.8 focus at ∞9 elements in 9 groupsAnti-distortion
Still photography modes	<ul style="list-style-type: none">Single shootBurst shooting: 3/5/7 framesAuto exposure bracketing (AEB): 3/5 bracketed frames at 0.7 EV biasTime-lapse
Video recording modes	<ul style="list-style-type: none">UHD (4K): 4096x2160p24/25, 3840x2160p24/25/30FHD: 1920x1080p24/25/30/48/50/60HD: 1280x720p24/25/30/48/50/60
Max. bit rate of video storage	60 Mbps
Supported file formats	<ul style="list-style-type: none">FAT32/exFATPhoto: JPEG, DNGVideo: MP4/MOV (MPEG-4 AVC/H.264)
Supported SD card types	<ul style="list-style-type: none">Micro SDMax. capacity: 64 GB. Class 10 or UHS-1 rating required.
Operating temperature range	0 to +40°C (+32 to +104°F)

Image processing and display controls	
NTSC/PAL (field switchable)	Yes
Image optimization	Yes
Digital detail	Yes

Enhancement	
Polarity control (black hot/white hot)	Yes
Color and monochrome palettes (LUTs)	Yes
Digital zoom	2x, 4x, 8x

Lens model	
Focal length	13 mm
f number	f/1.25
FoV	45° x 37°
iFoV	1.308 mrad
Minimum focus distance	7.6 cm (3.0 in.)
Hyperfocal distance	4.4 m (14.4 ft.)
Hyperfocal depth of field	2.2 m (7.2 ft.)

Environmental	
Operating temperature range	-10 to +40°C (+14 to +104°F)
Non-operating temperature range	-30 to +70°C (-22 to +158°F)
Temperature shock	5°C/min (41°F/min)
Humidity	5-95%

Certifications	
Compliance	http://www.dji.com/euro-compliance



FLIR Aerial First Responder Advanced Kit (9 Hz)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Remote controller	
Name	C1
Operating frequency	<ul style="list-style-type: none">922.7–927.7 MHz (Japan only)5.725–5.825 GHz2.400–2.483 GHz
Transmitting distance	<ul style="list-style-type: none">Up to 5.0 km (3.1 miles) (unobstructed, free of interferences and FCC compliant) when it is FCC compliantUp to 3.5 km (2.1 miles) (unobstructed, free of interferences) when it is CE compliant
EIRP	<ul style="list-style-type: none">10 dBm @ 900 m13 dBm @ 5.8 G20 dBm @ 2.4 G
Video output port	USB, Mini-HDMI
Power supply	Built-in battery
Charging	DJI charger
Dual-user capability	Host-and-slave connection
Mobile device holder	Tablet or smart phone
Output power	9 W
Operating temperature range	–10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: –20 to +45°C (–4 to 113°F)More than 3 months: 22–28°C (72–82°F)
Charging temperature range	0–40°C (32–104°F)
Battery	6000 mA h LiPo 2S

Charger	
Model	A14-100P1A
Voltage	26.3 V
Rated power	100 W

Battery (standard)	
Name	Intelligent flight battery
Model	TB47
Capacity	4500 mA h
Voltage	22.2 V
Battery type	LiPo 6S high-voltage battery
Energy	99.9 W h
Net weight	570 g
Operating temperature range	–10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: –20 to +45°C (–4 to 113°F)More than 3 months: 22–28°C (72–82°F)
Charging temperature range	0–40°C (32–104°F)
Maximum charging power	180 W
Maximum number of charging cycles	200

Battery (optional)	
Name	Intelligent flight battery
Model	TB48



FLIR Aerial First Responder Advanced Kit (9 Hz)

P/N: 76503-0303

Revision

43539

Last modified

2017-06-28 10:52 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Battery (optional)	
Capacity	5700 mA h
Voltage	22.8 V
Battery type	LiPo 6S
Energy	129.96 W h
Net weight	670 g
Operating temperature range	-10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: -20 to +45°C (-4 to 113°F)More than 3 months: 22-28°C (72-82°F)
Charging temperature range	0-40°C (32-104°F)
Maximum charging power	180 W
Maximum number of charging cycles	200

Vision positioning	
Velocity range	Below 8 m/s (26 ft./s) (2 m (6.6 ft.) above ground)
Altitude range	5-500 cm (2.0-200 in.)
Operating environment	Brightly lit (lux > 15) patterned surfaces
Operating range	0-300 cm (0-120 in.)

DJI GO app	
Mobile device system requirements	<ul style="list-style-type: none">iOS version 7.1 or laterAndroid version 4.1.2 or later
Supported mobile devices	<ul style="list-style-type: none">iPhone 6 PlusiPhone 6iPhone 5SiPad Air 2iPad Mini 3iPad AiriPad Mini 2iPad 4Samsung Note 3Samsung S5Sony Z3 EXPERIA <p>NOTE: It is recommended that you use a tablet for the best experience</p>

Documentation and firmware	
Download link	http://tinyurl.com/z8esgtc

Warranty	
Warranty	http://www.dji.com/service#warranty_period

Global trade data	
HS Code	<ul style="list-style-type: none">8802200015 (Inspire 1)9032896085 (Zenmuse XT)
ECCN code	6A993.a (Zenmuse XT)

Shipping information	
Packaging type	Cardboard box



FLIR Aerial First Responder Advanced Kit (9 Hz)

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Shipping information

List of contents

- Inspire T600 aircraft
- Zenmuse XT thermal camera with stabilized gimbal
- Zenmuse X3 video camera with stabilized gimbal
- Controllers (x2, one for the operator and one for the pilot)
- Battery (x3)
- FLIR Tools+
- iPad Mini 4 (128 GB, Wi-Fi and cellular) (x2)
- Monitor hood (x2)
- Landing pad
- Rugged carry case (x2)
- Landing Pad

P/N: 75603-0305

Revision

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Website

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Customer support

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Aircraft	
Model	Inspire 1 – T600
Weight (battery included)	2935 g (6.471 lb.)
Hovering accuracy (P mode)	<ul style="list-style-type: none"> Vertical: 0.5 m (1.6 ft.) Horizontal: 2.5 m (8.2 ft.)
Maximum angular velocity	<ul style="list-style-type: none"> Pitch: 300°/s Yaw: 150°/s
Maximum tilt angle	35°
Maximum ascent speed	5 m/s (16 ft./s)
Maximum descent speed	4 m/s (13 ft./s)
Maximum speed	22 m/s (72 ft./s) (ATTI mode, no wind)
Maximum service ceiling above sea level	4500 m (14 700 ft.) (software altitude limit: 120 m (390 ft.) above takeoff point)
Maximum wind speed resistance	10 m/s (32 ft./s)
Maximum flight time	Approximately 18 minutes
Motor model	DJI 3510
Propeller model	DJI 1345T
Indoor hovering	Enabled by default
Operating temperature range	-10 to +40°C (+14 to +104°F)
Diagonal distance	559–581 mm (22.0–22.8 in.)
Dimensions	438 mm × 451 mm × 301 mm (17.2 in. × 17.8 in. × 11.9 in.)

Gimbal (Zenmuse XT)	
Name	Zenmuse XT
Dimensions	103 mm × 74 mm × 102 mm (4.1 in. × 2.9 in. × 4.0 in.)
Weight	270 g (0.60 lb.)
Angular vibration range	±0.03°
Mount	Detachable
Controllable range	<ul style="list-style-type: none"> Tilt: +35° to -90° Pan: ±320° Roll: ±15°
Mechanical range	<ul style="list-style-type: none"> Tilt: +45° to -135° Pan: ±320° Roll: ±45°
Maximum controllable speed	120°/s



FLIR Aerial First Responder Advanced Kit w/out iPad (30 Hz)

P/N: 75603-0305

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Gimbal (Zemuse X3)	
Model	Zemuse X3
Output power (with camera)	<ul style="list-style-type: none">Static: 9 WIn motion: 11 W
Operating current	<ul style="list-style-type: none">Station: 750 mAMotion: 900 mA
Angular vibration range	±0.03°
Mounting	Detachable
Controllable range	<ul style="list-style-type: none">Pitch: -90° to +30°Pan: ±320°
Mechanical range	<ul style="list-style-type: none">Pitch: -125° to +45°Pan: ±330°
Max. controllable speed	<ul style="list-style-type: none">Pitch: 120°/sPan: 180°/s

Camera (Zemuse XT)	
Thermal imager	Uncooled VOx microbolometer
FPA/digital video display formats	640 × 512 pixels
Analog video display formats	<ul style="list-style-type: none">720 × 480 pixels (NTSC)720 × 576 pixels (PAL)
Pixel pitch	17 μm
Spectral band	7.5–13.5 μm
Frame rates	<ul style="list-style-type: none">30 Hz (NTSC)25 Hz (PAL)
Sensitivity (NEΔT)	<50 mK at f/1.0
Accuracy	±20°C (±36°F)
Scene range (high gain)	-25 to +135°C (-13 to +275°F)
Scene range (low gain)	-40 to 550°C (-40 to +1022°F)
Spot meter	Temperatures measured in central 4 × 4 pixels
File storage	Micro SD card. 16 GB Class 10 included, up to 32 GB supported.
Data logging	<ul style="list-style-type: none">8-bit AGC + LUT video at camera frame rate packaged in either .MOV or .MP4 wrappers.8-bit AGC + LUT still images in .JPG.14-bit TIFF raw still images with FLIR-specified metadata.

Camera (Zemuse X3)	
Name	X3
Model	FC350
Total pixels	12.76 Mpixel
Effective pixels	12.4 Mpixel
Image max. size	4000 × 3000
ISO range	<ul style="list-style-type: none">100–3200 (video)100–1600 (photo)
Electronic shutter speed	8 s to 1/8000 s
FOV (field of view)	94°
CMOS	Sony EXMOR 1/2.3"



FLIR Aerial First Responder Advanced Kit w/out iPad (30 Hz)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Camera (Zemuse X3)	
Lens	<ul style="list-style-type: none">• 20 mm (35 mm format equivalent) f/2.8 focus at ∞• 9 elements in 9 groups• Anti-distortion
Still photography modes	<ul style="list-style-type: none">• Single shoot• Burst shooting: 3/5/7 frames• Auto exposure bracketing (AEB): 3/5 bracketed frames at 0.7 EV bias• Time-lapse
Video recording modes	<ul style="list-style-type: none">• UHD (4K): 4096x2160p24/25, 3840x2160p24/25/30• FHD: 1920x1080p24/25/30/48/50/60• HD: 1280x720p24/25/30/48/50/60
Max. bit rate of video storage	60 Mbps
Supported file formats	<ul style="list-style-type: none">• FAT32/exFAT• Photo: JPEG, DNG• Video: MP4/MOV (MPEG-4 AVC/H.264)
Supported SD card types	<ul style="list-style-type: none">• Micro SD• Max. capacity: 64 GB. Class 10 or UHS-1 rating required.
Operating temperature range	0 to +40°C (+32 to +104°F)

Image processing and display controls	
NTSC/PAL (field switchable)	Yes
Image optimization	Yes
Digital detail	Yes

Enhancement	
Polarity control (black hot/white hot)	Yes
Color and monochrome palettes (LUTs)	Yes
Digital zoom	2x, 4x, 8x

Lens model	
Focal length	13 mm
f number	f/1.25
FoV	45° x 37°
iFoV	1.308 mrad
Minimum focus distance	7.6 cm (3.0 in.)
Hyperfocal distance	4.4 m (14.4 ft.)
Hyperfocal depth of field	2.2 m (7.2 ft.)

Environmental	
Operating temperature range	-10 to +40°C (+14 to +104°F)
Non-operating temperature range	-30 to +70°C (-22 to +158°F)
Temperature shock	5°C/min (41°F/min)
Humidity	5-95%

Certifications	
Compliance	http://www.dji.com/euro-compliance



FLIR Aerial First Responder Advanced Kit w/out iPad (30 Hz)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Remote controller	
Name	C1
Operating frequency	<ul style="list-style-type: none"> 922.7–927.7 MHz (Japan only) 5.725–5.825 GHz 2.400–2.483 GHz
Transmitting distance	<ul style="list-style-type: none"> Up to 5.0 km (3.1 miles) (unobstructed, free of interferences and FCC compliant) when it is FCC compliant Up to 3.5 km (2.1 miles) (unobstructed, free of interferences) when it is CE compliant
EIRP	<ul style="list-style-type: none"> 10 dBm @ 900 m 13 dBm @ 5.8 G 20 dBm @ 2.4 G
Video output port	USB, Mini-HDMI
Power supply	Built-in battery
Charging	DJI charger
Dual-user capability	Host-and-slave connection
Mobile device holder	Tablet or smart phone
Output power	9 W
Operating temperature range	–10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none"> Less than 3 months: –20 to +45°C (–4 to 113°F) More than 3 months: 22–28°C (72–82°F)
Charging temperature range	0–40°C (32–104°F)
Battery	6000 mA h LiPo 2S

Charger	
Model	A14-100P1A
Voltage	26.3 V
Rated power	100 W

Battery (standard)	
Name	Intelligent flight battery
Model	TB47
Capacity	4500 mA h
Voltage	22.2 V
Battery type	LiPo 6S high-voltage battery
Energy	99.9 W h
Net weight	570 g
Operating temperature range	–10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none"> Less than 3 months: –20 to +45°C (–4 to 113°F) More than 3 months: 22–28°C (72–82°F)
Charging temperature range	0–40°C (32–104°F)
Maximum charging power	180 W
Maximum number of charging cycles	200

Battery (optional)	
Name	Intelligent flight battery
Model	TB48



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Battery (optional)	
Capacity	5700 mA h
Voltage	22.8 V
Battery type	LiPo 6S
Energy	129.96 W h
Net weight	670 g
Operating temperature range	-10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: -20 to +45°C (-4 to 113°F)More than 3 months: 22-28°C (72-82°F)
Charging temperature range	0-40°C (32-104°F)
Maximum charging power	180 W
Maximum number of charging cycles	200

Vision positioning	
Velocity range	Below 8 m/s (26 ft./s) (2 m (6.6 ft.) above ground)
Altitude range	5-500 cm (2.0-200 in.)
Operating environment	Brightly lit (lux > 15) patterned surfaces
Operating range	0-300 cm (0-120 in.)

DJI GO app	
Mobile device system requirements	<ul style="list-style-type: none">iOS version 7.1 or laterAndroid version 4.1.2 or later
Supported mobile devices	<ul style="list-style-type: none">iPhone 6 PlusiPhone 6iPhone 5SiPad Air 2iPad Mini 3iPad AiriPad Mini 2iPad 4Samsung Note 3Samsung S5Sony Z3 EXPERIA <p>NOTE: It is recommended that you use a tablet for the best experience</p>

Documentation and firmware	
Download link	http://tinyurl.com/z8esgtc

Warranty	
Warranty	http://www.dji.com/service#warranty_period

Shipping information	
Packaging type	Cardboard box
List of contents	<ul style="list-style-type: none">Inspire T600 aircraftZenmuse XT thermal camera with stabilized gimbalZenmuse X3 video camera with stabilized gimbalControllers (x2, one for the operator and one for the pilot)Battery (x3)FLIR Tools+Monitor hood (x2)Landing padRugged carry case (x2)Landing Pad

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Website

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Customer support

<http://support.flir.com>



Aircraft	
Model	Inspire 1 – T600
Weight (battery included)	2935 g (6.471 lb.)
Hovering accuracy (P mode)	<ul style="list-style-type: none"> Vertical: 0.5 m (1.6 ft.) Horizontal: 2.5 m (8.2 ft.)
Maximum angular velocity	<ul style="list-style-type: none"> Pitch: 300°/s Yaw: 150°/s
Maximum tilt angle	35°
Maximum ascent speed	5 m/s (16 ft./s)
Maximum descent speed	4 m/s (13 ft./s)
Maximum speed	22 m/s (72 ft./s) (ATTI mode, no wind)
Maximum service ceiling above sea level	4500 m (14 700 ft.) (software altitude limit: 120 m (390 ft.) above takeoff point)
Maximum wind speed resistance	10 m/s (32 ft./s)
Maximum flight time	Approximately 18 minutes
Motor model	DJI 3510
Propeller model	DJI 1345T
Indoor hovering	Enabled by default
Operating temperature range	-10 to +40°C (+14 to +104°F)
Diagonal distance	559–581 mm (22.0–22.8 in.)
Dimensions	438 mm × 451 mm × 301 mm (17.2 in. × 17.8 in. × 11.9 in.)

Gimbal (Zenmuse XT)	
Name	Zenmuse XT
Dimensions	103 mm × 74 mm × 102 mm (4.1 in. × 2.9 in. × 4.0 in.)
Weight	270 g (0.60 lb.)
Angular vibration range	±0.03°
Mount	Detachable
Controllable range	<ul style="list-style-type: none"> Tilt: +35° to -90° Pan: ±320° Roll: ±15°
Mechanical range	<ul style="list-style-type: none"> Tilt: +45° to -135° Pan: ±320° Roll: ±45°
Maximum controllable speed	120°/s



FLIR Aerial First Responder Advanced Kit w/out iPad (9 Hz)

P/N: 76503-0305

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Website

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Customer support

<http://support.flir.com>

Gimbal (Zenmuse X3)	
Model	Zenmuse X3
Output power (with camera)	<ul style="list-style-type: none">• Static: 9 W• In motion: 11 W
Operating current	<ul style="list-style-type: none">• Station: 750 mA• Motion: 900 mA
Angular vibration range	±0.03°
Mounting	Detachable
Controllable range	<ul style="list-style-type: none">• Pitch: -90° to +30°• Pan: ±320°
Mechanical range	<ul style="list-style-type: none">• Pitch: -125° to +45°• Pan: ±330°
Max. controllable speed	<ul style="list-style-type: none">• Pitch: 120°/s• Pan: 180°/s

Camera (Zenmuse XT)	
Thermal imager	Uncooled VOx microbolometer
FPA/digital video display formats	640 × 512 pixels
Analog video display formats	<ul style="list-style-type: none">• 720 × 480 pixels (NTSC)• 720 × 576 pixels (PAL)
Pixel pitch	17 μm
Spectral band	7.5–13.5 μm
Frame rates	<ul style="list-style-type: none">• 7.5 Hz NTSC• 8.3 Hz PAL
Sensitivity (NEΔT)	<50 mK at f/1.0
Accuracy	±20°C (±36°F)
Scene range (high gain)	-25 to +135°C (-13 to +275°F)
Scene range (low gain)	-40 to 550°C (-40 to +1022°F)
Spot meter	Temperatures measured in central 4 × 4 pixels
File storage	Micro SD card. 16 GB Class 10 included, up to 32 GB supported.
Data logging	<ul style="list-style-type: none">• 8-bit AGC + LUT video at camera frame rate packaged in either .MOV or .MP4 wrappers.• 8-bit AGC + LUT still images in .JPG.• 14-bit TIFF raw still images with FLIR-specified metadata.

Camera (Zenmuse X3)	
Name	X3
Model	FC350
Total pixels	12.76 Mpixel
Effective pixels	12.4 Mpixel
Image max. size	4000 × 3000
ISO range	<ul style="list-style-type: none">• 100–3200 (video)• 100–1600 (photo)
Electronic shutter speed	8 s to 1/8000 s
FOV (field of view)	94°
CMOS	Sony EXMOR 1/2.3"



FLIR Aerial First Responder Advanced Kit w/out iPad (9 Hz)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Camera (Zemuse X3)	
Lens	<ul style="list-style-type: none">• 20 mm (35 mm format equivalent) f/2.8 focus at ∞• 9 elements in 9 groups• Anti-distortion
Still photography modes	<ul style="list-style-type: none">• Single shoot• Burst shooting: 3/5/7 frames• Auto exposure bracketing (AEB): 3/5 bracketed frames at 0.7 EV bias• Time-lapse
Video recording modes	<ul style="list-style-type: none">• UHD (4K): 4096x2160p24/25, 3840x2160p24/25/30• FHD: 1920x1080p24/25/30/48/50/60• HD: 1280x720p24/25/30/48/50/60
Max. bit rate of video storage	60 Mbps
Supported file formats	<ul style="list-style-type: none">• FAT32/exFAT• Photo: JPEG, DNG• Video: MP4/MOV (MPEG-4 AVC/H.264)
Supported SD card types	<ul style="list-style-type: none">• Micro SD• Max. capacity: 64 GB. Class 10 or UHS-1 rating required.
Operating temperature range	0 to +40°C (+32 to +104°F)

Image processing and display controls	
NTSC/PAL (field switchable)	Yes
Image optimization	Yes
Digital detail	Yes

Enhancement	
Polarity control (black hot/white hot)	Yes
Color and monochrome palettes (LUTs)	Yes
Digital zoom	2x, 4x, 8x

Lens model	
Focal length	13 mm
f number	f/1.25
FoV	45° x 37°
iFoV	1.308 mrad
Minimum focus distance	7.6 cm (3.0 in.)
Hyperfocal distance	4.4 m (14.4 ft.)
Hyperfocal depth of field	2.2 m (7.2 ft.)

Environmental	
Operating temperature range	-10 to +40°C (+14 to +104°F)
Non-operating temperature range	-30 to +70°C (-22 to +158°F)
Temperature shock	5°C/min (41°F/min)
Humidity	5-95%

Certifications	
Compliance	http://www.dji.com/euro-compliance



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Remote controller	
Name	C1
Operating frequency	<ul style="list-style-type: none">922.7–927.7 MHz (Japan only)5.725–5.825 GHz2.400–2.483 GHz
Transmitting distance	<ul style="list-style-type: none">Up to 5.0 km (3.1 miles) (unobstructed, free of interferences and FCC compliant) when it is FCC compliantUp to 3.5 km (2.1 miles) (unobstructed, free of interferences) when it is CE compliant
EIRP	<ul style="list-style-type: none">10 dBm @ 900 m13 dBm @ 5.8 G20 dBm @ 2.4 G
Video output port	USB, Mini-HDMI
Power supply	Built-in battery
Charging	DJI charger
Dual-user capability	Host-and-slave connection
Mobile device holder	Tablet or smart phone
Output power	9 W
Operating temperature range	-10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: -20 to +45°C (-4 to 113°F)More than 3 months: 22–28°C (72–82°F)
Charging temperature range	0–40°C (32–104°F)
Battery	6000 mA h LiPo 2S

Charger	
Model	A14-100P1A
Voltage	26.3 V
Rated power	100 W

Battery (standard)	
Name	Intelligent flight battery
Model	TB47
Capacity	4500 mA h
Voltage	22.2 V
Battery type	LiPo 6S high-voltage battery
Energy	99.9 W h
Net weight	570 g
Operating temperature range	-10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: -20 to +45°C (-4 to 113°F)More than 3 months: 22–28°C (72–82°F)
Charging temperature range	0–40°C (32–104°F)
Maximum charging power	180 W
Maximum number of charging cycles	200

Battery (optional)	
Name	Intelligent flight battery
Model	TB48



FLIR Aerial First Responder Advanced Kit w/out iPad (9 Hz)

P/N: 76503-0305

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Battery (optional)	
Capacity	5700 mA h
Voltage	22.8 V
Battery type	LiPo 6S
Energy	129.96 W h
Net weight	670 g
Operating temperature range	-10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">• Less than 3 months: -20 to +45°C (-4 to 113°F)• More than 3 months: 22-28°C (72-82°F)
Charging temperature range	0-40°C (32-104°F)
Maximum charging power	180 W
Maximum number of charging cycles	200

Vision positioning	
Velocity range	Below 8 m/s (26 ft./s) (2 m (6.6 ft.) above ground)
Altitude range	5-500 cm (2.0-200 in.)
Operating environment	Brightly lit (lux > 15) patterned surfaces
Operating range	0-300 cm (0-120 in.)

DJI GO app	
Mobile device system requirements	<ul style="list-style-type: none">• iOS version 7.1 or later• Android version 4.1.2 or later
Supported mobile devices	<ul style="list-style-type: none">• iPhone 6 Plus• iPhone 6• iPhone 5S• iPad Air 2• iPad Mini 3• iPad Air• iPad Mini 2• iPad 4• Samsung Note 3• Samsung S5• Sony Z3 EXPERIA <p>NOTE: It is recommended that you use a tablet for the best experience</p>

Documentation and firmware	
Download link	http://tinyurl.com/z8esgtc

Warranty	
Warranty	http://www.dji.com/service#warranty_period

Shipping information	
Packaging type	Cardboard box
List of contents	<ul style="list-style-type: none">• Inspire T600 aircraft• Zenmuse XT thermal camera with stabilized gimbal• Zenmuse X3 video camera with stabilized gimbal• Controllers (x2, one for the operator and one for the pilot)• Battery (x3)• FLIR Tools+• Monitor hood (x2)• Landing pad• Rugged carry case (x2)• Landing Pad

P/N: 75603-1305

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Website

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Customer support

<http://support.flir.com>



Aircraft	
Model	Inspire 1 – T600
Weight (battery included)	2935 g (6.471 lb.)
Hovering accuracy (P mode)	<ul style="list-style-type: none"> Vertical: 0.5 m (1.6 ft.) Horizontal: 2.5 m (8.2 ft.)
Maximum angular velocity	<ul style="list-style-type: none"> Pitch: 300°/s Yaw: 150°/s
Maximum tilt angle	35°
Maximum ascent speed	5 m/s (16 ft./s)
Maximum descent speed	4 m/s (13 ft./s)
Maximum speed	22 m/s (72 ft./s) (ATTI mode, no wind)
Maximum service ceiling above sea level	4500 m (14 700 ft.) (software altitude limit: 120 m (390 ft.) above takeoff point)
Maximum wind speed resistance	10 m/s (32 ft./s)
Maximum flight time	Approximately 18 minutes
Motor model	DJI 3510
Propeller model	DJI 1345T
Indoor hovering	Enabled by default
Operating temperature range	-10 to +40°C (+14 to +104°F)
Diagonal distance	559–581 mm (22.0–22.8 in.)
Dimensions	438 mm × 451 mm × 301 mm (17.2 in. × 17.8 in. × 11.9 in.)

Gimbal (Zenmuse XT)	
Name	Zenmuse XT
Dimensions	103 mm × 74 mm × 102 mm (4.1 in. × 2.9 in. × 4.0 in.)
Weight	270 g (0.60 lb.)
Angular vibration range	±0.03°
Mount	Detachable
Controllable range	<ul style="list-style-type: none"> Tilt: +35° to -90° Pan: ±320° Roll: ±15°
Mechanical range	<ul style="list-style-type: none"> Tilt: +45° to -135° Pan: ±320° Roll: ±45°
Maximum controllable speed	120°/s



FLIR Aerial First Responder Advanced Kit w/out iPad, R (30 Hz)

P/N: 75603-1305

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Gimbal (Zenmuse X3)	
Model	Zenmuse X3
Output power (with camera)	<ul style="list-style-type: none"> Static: 9 W In motion: 11 W
Operating current	<ul style="list-style-type: none"> Station: 750 mA Motion: 900 mA
Angular vibration range	±0.03°
Mounting	Detachable
Controllable range	<ul style="list-style-type: none"> Pitch: -90° to +30° Pan: ±320°
Mechanical range	<ul style="list-style-type: none"> Pitch: -125° to +45° Pan: ±330°
Max. controllable speed	<ul style="list-style-type: none"> Pitch: 120°/s Pan: 180°/s

Camera (Zenmuse XT)	
Thermal imager	Uncooled VOx microbolometer
FPA/digital video display formats	640 × 512 pixels
Analog video display formats	<ul style="list-style-type: none"> 720 × 480 pixels (NTSC) 720 × 576 pixels (PAL)
Pixel pitch	17 μm
Spectral band	7.5–13.5 μm
Frame rates	<ul style="list-style-type: none"> 30 Hz (NTSC) 25 Hz (PAL)
Sensitivity (NEΔT)	<50 mK at f/1.0
Accuracy	±5°C (±9°F)
Scene range (high gain)	-25 to +135°C (-13 to +275°F)
Scene range (low gain)	-40 to 550°C (-40 to +1022°F)
Measurement area	Temperatures measured in the full image
File storage	Micro SD card. 16 GB Class 10 included, up to 32 GB supported.
Data logging	<ul style="list-style-type: none"> 8-bit AGC + LUT video at camera frame rate packaged in either .MOV or .MP4 wrappers. 8-bit AGC + LUT still images in .JPG. 14-bit TIFF raw still images with FLIR-specified metadata.

Camera (Zenmuse X3)	
Name	X3
Model	FC350
Total pixels	12.76 Mpixel
Effective pixels	12.4 Mpixel
Image max. size	4000 × 3000
ISO range	<ul style="list-style-type: none"> 100–3200 (video) 100–1600 (photo)
Electronic shutter speed	8 s to 1/8000 s
FOV (field of view)	94°
CMOS	Sony EXMOR 1/2.3"



FLIR Aerial First Responder Advanced Kit w/out iPad, R (30 Hz)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Camera (Zemuse X3)	
Lens	<ul style="list-style-type: none">• 20 mm (35 mm format equivalent) f/2.8 focus at ∞• 9 elements in 9 groups• Anti-distortion
Still photography modes	<ul style="list-style-type: none">• Single shoot• Burst shooting: 3/5/7 frames• Auto exposure bracketing (AEB): 3/5 bracketed frames at 0.7 EV bias• Time-lapse
Video recording modes	<ul style="list-style-type: none">• UHD (4K): 4096x2160p24/25, 3840x2160p24/25/30• FHD: 1920x1080p24/25/30/48/50/60• HD: 1280x720p24/25/30/48/50/60
Max. bit rate of video storage	60 Mbps
Supported file formats	<ul style="list-style-type: none">• FAT32/exFAT• Photo: JPEG, DNG• Video: MP4/MOV (MPEG-4 AVC/H.264)
Supported SD card types	<ul style="list-style-type: none">• Micro SD• Max. capacity: 64 GB. Class 10 or UHS-1 rating required.
Operating temperature range	0 to +40°C (+32 to +104°F)

Image processing and display controls	
NTSC/PAL (field switchable)	Yes
Image optimization	Yes
Digital detail	Yes

Enhancement	
Polarity control (black hot/white hot)	Yes
Color and monochrome palettes (LUTs)	Yes
Digital zoom	2x, 4x, 8x

Lens model	
Focal length	13 mm
f number	f/1.25
FoV	45° x 37°
iFoV	1.308 mrad
Minimum focus distance	7.6 cm (3.0 in.)
Hyperfocal distance	4.4 m (14.4 ft.)
Hyperfocal depth of field	2.2 m (7.2 ft.)

Environmental	
Operating temperature range	-10 to +40°C (+14 to +104°F)
Non-operating temperature range	-30 to +70°C (-22 to +158°F)
Temperature shock	5°C/min (41°F/min)
Humidity	5-95%

Certifications	
Compliance	http://www.dji.com/euro-compliance



FLIR Aerial First Responder Advanced Kit w/out iPad, R (30 Hz)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Remote controller	
Name	C1
Operating frequency	<ul style="list-style-type: none">922.7–927.7 MHz (Japan only)5.725–5.825 GHz2.400–2.483 GHz
Transmitting distance	<ul style="list-style-type: none">Up to 5.0 km (3.1 miles) (unobstructed, free of interferences and FCC compliant) when it is FCC compliantUp to 3.5 km (2.1 miles) (unobstructed, free of interferences) when it is CE compliant
EIRP	<ul style="list-style-type: none">10 dBm @ 900 m13 dBm @ 5.8 G20 dBm @ 2.4 G
Video output port	USB, Mini-HDMI
Power supply	Built-in battery
Charging	DJI charger
Dual-user capability	Host-and-slave connection
Mobile device holder	Tablet or smart phone
Output power	9 W
Operating temperature range	–10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: –20 to +45°C (–4 to 113°F)More than 3 months: 22–28°C (72–82°F)
Charging temperature range	0–40°C (32–104°F)
Battery	6000 mA h LiPo 2S

Charger	
Model	A14-100P1A
Voltage	26.3 V
Rated power	100 W

Battery (standard)	
Name	Intelligent flight battery
Model	TB47
Capacity	4500 mA h
Voltage	22.2 V
Battery type	LiPo 6S high-voltage battery
Energy	99.9 W h
Net weight	570 g
Operating temperature range	–10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: –20 to +45°C (–4 to 113°F)More than 3 months: 22–28°C (72–82°F)
Charging temperature range	0–40°C (32–104°F)
Maximum charging power	180 W
Maximum number of charging cycles	200

Battery (optional)	
Name	Intelligent flight battery
Model	TB48



FLIR Aerial First Responder Advanced Kit w/out iPad, R (30 Hz)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Battery (optional)	
Capacity	5700 mA h
Voltage	22.8 V
Battery type	LiPo 6S
Energy	129.96 W h
Net weight	670 g
Operating temperature range	-10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: -20 to +45°C (-4 to 113°F)More than 3 months: 22-28°C (72-82°F)
Charging temperature range	0-40°C (32-104°F)
Maximum charging power	180 W
Maximum number of charging cycles	200

Vision positioning	
Velocity range	Below 8 m/s (26 ft./s) (2 m (6.6 ft.) above ground)
Altitude range	5-500 cm (2.0-200 in.)
Operating environment	Brightly lit (lux > 15) patterned surfaces
Operating range	0-300 cm (0-120 in.)

DJI GO app	
Mobile device system requirements	<ul style="list-style-type: none">iOS version 7.1 or laterAndroid version 4.1.2 or later
Supported mobile devices	<ul style="list-style-type: none">iPhone 6 PlusiPhone 6iPhone 5SiPad Air 2iPad Mini 3iPad AiriPad Mini 2iPad 4Samsung Note 3Samsung S5Sony Z3 EXPERIA <p>NOTE: It is recommended that you use a tablet for the best experience</p>

Documentation and firmware	
Download link	http://tinyurl.com/z8esgtc

Warranty	
Warranty	http://www.dji.com/service#warranty_period

Global trade data	
HS Code	<ul style="list-style-type: none">8802200015 (Inspire 1)9032896085 (Zenmuse XT)
ECCN code	6A003.b.4.b. (Zenmuse XT)

Shipping information	
Packaging type	Cardboard box



FLIR Aerial First Responder Advanced Kit w/out iPad, R (30 Hz)

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Website

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Customer support

<http://support.flir.com>

Shipping information

List of contents

- Inspire T600 aircraft
- Zenmuse XT thermal camera with stabilized gimbal
- Zenmuse X3 video camera with stabilized gimbal
- Controllers (x2, one for the operator and one for the pilot)
- Battery (x3)
- FLIR Tools+
- Monitor hood (x2)
- Landing pad
- Rugged carry case (x2)
- Landing Pad

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Website

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Customer support

<http://support.flir.com>



Aircraft	
Model	Inspire 1 – T600
Weight (battery included)	2935 g (6.471 lb.)
Hovering accuracy (P mode)	<ul style="list-style-type: none"> Vertical: 0.5 m (1.6 ft.) Horizontal: 2.5 m (8.2 ft.)
Maximum angular velocity	<ul style="list-style-type: none"> Pitch: 300°/s Yaw: 150°/s
Maximum tilt angle	35°
Maximum ascent speed	5 m/s (16 ft./s)
Maximum descent speed	4 m/s (13 ft./s)
Maximum speed	22 m/s (72 ft./s) (ATTI mode, no wind)
Maximum service ceiling above sea level	4500 m (14 700 ft.) (software altitude limit: 120 m (390 ft.) above takeoff point)
Maximum wind speed resistance	10 m/s (32 ft./s)
Maximum flight time	Approximately 18 minutes
Motor model	DJI 3510
Propeller model	DJI 1345T
Indoor hovering	Enabled by default
Operating temperature range	-10 to +40°C (+14 to +104°F)
Diagonal distance	559–581 mm (22.0–22.8 in.)
Dimensions	438 mm × 451 mm × 301 mm (17.2 in. × 17.8 in. × 11.9 in.)

Gimbal (Zenmuse XT)	
Name	Zenmuse XT
Dimensions	103 mm × 74 mm × 102 mm (4.1 in. × 2.9 in. × 4.0 in.)
Weight	270 g (0.60 lb.)
Angular vibration range	±0.03°
Mount	Detachable
Controllable range	<ul style="list-style-type: none"> Tilt: +35° to -90° Pan: ±320° Roll: ±15°
Mechanical range	<ul style="list-style-type: none"> Tilt: +45° to -135° Pan: ±320° Roll: ±45°
Maximum controllable speed	120°/s



FLIR Aerial First Responder Advanced Kit w/out iPad, R (9 Hz)

P/N: 76503-1305

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Website

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Customer support

<http://support.flir.com>

Gimbal (Zenmuse X3)	
Model	Zenmuse X3
Output power (with camera)	<ul style="list-style-type: none"> • Static: 9 W • In motion: 11 W
Operating current	<ul style="list-style-type: none"> • Station: 750 mA • Motion: 900 mA
Angular vibration range	±0.03°
Mounting	Detachable
Controllable range	<ul style="list-style-type: none"> • Pitch: -90° to +30° • Pan: ±320°
Mechanical range	<ul style="list-style-type: none"> • Pitch: -125° to +45° • Pan: ±330°
Max. controllable speed	<ul style="list-style-type: none"> • Pitch: 120°/s • Pan: 180°/s

Camera (Zenmuse XT)	
Thermal imager	Uncooled VOx microbolometer
FPA/digital video display formats	640 × 512 pixels
Analog video display formats	<ul style="list-style-type: none"> • 720 × 480 pixels (NTSC) • 720 × 576 pixels (PAL)
Pixel pitch	17 μm
Spectral band	7.5–13.5 μm
Frame rates	<ul style="list-style-type: none"> • 7.5 Hz NTSC • 8.3 Hz PAL
Sensitivity (NEΔT)	<50 mK at f/1.0
Accuracy	±5°C (±9°F)
Scene range (high gain)	-25 to +135°C (-13 to +275°F)
Scene range (low gain)	-40 to 550°C (-40 to +1022°F)
Measurement area	Temperatures measured in the full image
File storage	Micro SD card. 16 GB Class 10 included, up to 32 GB supported.
Data logging	<ul style="list-style-type: none"> • 8-bit AGC + LUT video at camera frame rate packaged in either .MOV or .MP4 wrappers. • 8-bit AGC + LUT still images in .JPG. • 14-bit TIFF raw still images with FLIR-specified metadata.

Camera (Zenmuse X3)	
Name	X3
Model	FC350
Total pixels	12.76 Mpixel
Effective pixels	12.4 Mpixel
Image max. size	4000 × 3000
ISO range	<ul style="list-style-type: none"> • 100–3200 (video) • 100–1600 (photo)
Electronic shutter speed	8 s to 1/8000 s
FOV (field of view)	94°
CMOS	Sony EXMOR 1/2.3"



FLIR Aerial First Responder Advanced Kit w/out iPad, R (9 Hz)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Camera (Zemuse X3)	
Lens	<ul style="list-style-type: none">• 20 mm (35 mm format equivalent) f/2.8 focus at ∞• 9 elements in 9 groups• Anti-distortion
Still photography modes	<ul style="list-style-type: none">• Single shoot• Burst shooting: 3/5/7 frames• Auto exposure bracketing (AEB): 3/5 bracketed frames at 0.7 EV bias• Time-lapse
Video recording modes	<ul style="list-style-type: none">• UHD (4K): 4096x2160p24/25, 3840x2160p24/25/30• FHD: 1920x1080p24/25/30/48/50/60• HD: 1280x720p24/25/30/48/50/60
Max. bit rate of video storage	60 Mbps
Supported file formats	<ul style="list-style-type: none">• FAT32/exFAT• Photo: JPEG, DNG• Video: MP4/MOV (MPEG-4 AVC/H.264)
Supported SD card types	<ul style="list-style-type: none">• Micro SD• Max. capacity: 64 GB. Class 10 or UHS-1 rating required.
Operating temperature range	0 to +40°C (+32 to +104°F)

Image processing and display controls	
NTSC/PAL (field switchable)	Yes
Image optimization	Yes
Digital detail	Yes

Enhancement	
Polarity control (black hot/white hot)	Yes
Color and monochrome palettes (LUTs)	Yes
Digital zoom	2x, 4x, 8x

Lens model	
Focal length	13 mm
f number	f/1.25
FoV	45° x 37°
iFoV	1.308 mrad
Minimum focus distance	7.6 cm (3.0 in.)
Hyperfocal distance	4.4 m (14.4 ft.)
Hyperfocal depth of field	2.2 m (7.2 ft.)

Environmental	
Operating temperature range	-10 to +40°C (+14 to +104°F)
Non-operating temperature range	-30 to +70°C (-22 to +158°F)
Temperature shock	5°C/min (41°F/min)
Humidity	5-95%

Certifications	
Compliance	http://www.dji.com/euro-compliance



FLIR Aerial First Responder Advanced Kit w/out iPad, R (9 Hz)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Remote controller	
Name	C1
Operating frequency	<ul style="list-style-type: none">922.7–927.7 MHz (Japan only)5.725–5.825 GHz2.400–2.483 GHz
Transmitting distance	<ul style="list-style-type: none">Up to 5.0 km (3.1 miles) (unobstructed, free of interferences and FCC compliant) when it is FCC compliantUp to 3.5 km (2.1 miles) (unobstructed, free of interferences) when it is CE compliant
EIRP	<ul style="list-style-type: none">10 dBm @ 900 m13 dBm @ 5.8 G20 dBm @ 2.4 G
Video output port	USB, Mini-HDMI
Power supply	Built-in battery
Charging	DJI charger
Dual-user capability	Host-and-slave connection
Mobile device holder	Tablet or smart phone
Output power	9 W
Operating temperature range	–10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: –20 to +45°C (–4 to 113°F)More than 3 months: 22–28°C (72–82°F)
Charging temperature range	0–40°C (32–104°F)
Battery	6000 mA h LiPo 2S

Charger	
Model	A14-100P1A
Voltage	26.3 V
Rated power	100 W

Battery (standard)	
Name	Intelligent flight battery
Model	TB47
Capacity	4500 mA h
Voltage	22.2 V
Battery type	LiPo 6S high-voltage battery
Energy	99.9 W h
Net weight	570 g
Operating temperature range	–10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: –20 to +45°C (–4 to 113°F)More than 3 months: 22–28°C (72–82°F)
Charging temperature range	0–40°C (32–104°F)
Maximum charging power	180 W
Maximum number of charging cycles	200

Battery (optional)	
Name	Intelligent flight battery
Model	TB48



FLIR Aerial First Responder Advanced Kit w/out iPad, R (9 Hz)

P/N: 76503-1305

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Battery (optional)	
Capacity	5700 mA h
Voltage	22.8 V
Battery type	LiPo 6S
Energy	129.96 W h
Net weight	670 g
Operating temperature range	-10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: -20 to +45°C (-4 to 113°F)More than 3 months: 22-28°C (72-82°F)
Charging temperature range	0-40°C (32-104°F)
Maximum charging power	180 W
Maximum number of charging cycles	200

Vision positioning	
Velocity range	Below 8 m/s (26 ft./s) (2 m (6.6 ft.) above ground)
Altitude range	5-500 cm (2.0-200 in.)
Operating environment	Brightly lit (lux > 15) patterned surfaces
Operating range	0-300 cm (0-120 in.)

DJI GO app	
Mobile device system requirements	<ul style="list-style-type: none">iOS version 7.1 or laterAndroid version 4.1.2 or later
Supported mobile devices	<ul style="list-style-type: none">iPhone 6 PlusiPhone 6iPhone 5SiPad Air 2iPad Mini 3iPad AiriPad Mini 2iPad 4Samsung Note 3Samsung S5Sony Z3 EXPERIA <p>NOTE: It is recommended that you use a tablet for the best experience</p>

Documentation and firmware	
Download link	http://tinyurl.com/z8esgtc

Warranty	
Warranty	http://www.dji.com/service#warranty_period

Global trade data	
HS Code	<ul style="list-style-type: none">8802200015 (Inspire 1)9032896085 (Zenmuse XT)
ECCN code	6A993.a (Zenmuse XT)

Shipping information	
Packaging type	Cardboard box



FLIR Aerial First Responder Advanced Kit w/out iPad, R (9 Hz)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Shipping information	
List of contents	<ul style="list-style-type: none">• Inspire T600 aircraft• Zenmuse XT thermal camera with stabilized gimbal• Zenmuse X3 video camera with stabilized gimbal• Controllers (x2, one for the operator and one for the pilot)• Battery (x3)• FLIR Tools+• Monitor hood (x2)• Landing pad• Rugged carry case (x2)• Landing Pad

P/N: 75603-1303

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Website

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Customer support

<http://support.flir.com>



Aircraft	
Model	Inspire 1 – T600
Weight (battery included)	2935 g (6.471 lb.)
Hovering accuracy (P mode)	<ul style="list-style-type: none"> Vertical: 0.5 m (1.6 ft.) Horizontal: 2.5 m (8.2 ft.)
Maximum angular velocity	<ul style="list-style-type: none"> Pitch: 300°/s Yaw: 150°/s
Maximum tilt angle	35°
Maximum ascent speed	5 m/s (16 ft./s)
Maximum descent speed	4 m/s (13 ft./s)
Maximum speed	22 m/s (72 ft./s) (ATTI mode, no wind)
Maximum service ceiling above sea level	4500 m (14 700 ft.) (software altitude limit: 120 m (390 ft.) above takeoff point)
Maximum wind speed resistance	10 m/s (32 ft./s)
Maximum flight time	Approximately 18 minutes
Motor model	DJI 3510
Propeller model	DJI 1345T
Indoor hovering	Enabled by default
Operating temperature range	-10 to +40°C (+14 to +104°F)
Diagonal distance	559–581 mm (22.0–22.8 in.)
Dimensions	438 mm × 451 mm × 301 mm (17.2 in. × 17.8 in. × 11.9 in.)

Gimbal (Zenmuse XT)	
Name	Zenmuse XT
Dimensions	103 mm × 74 mm × 102 mm (4.1 in. × 2.9 in. × 4.0 in.)
Weight	270 g (0.60 lb.)
Angular vibration range	±0.03°
Mount	Detachable
Controllable range	<ul style="list-style-type: none"> Tilt: +35° to -90° Pan: ±320° Roll: ±15°
Mechanical range	<ul style="list-style-type: none"> Tilt: +45° to -135° Pan: ±320° Roll: ±45°
Maximum controllable speed	120°/s



FLIR Aerial First Responder Advanced Kit, R (30 Hz)

P/N: 75603-1303

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Gimbal (Zenmuse X3)	
Model	Zenmuse X3
Output power (with camera)	<ul style="list-style-type: none">• Static: 9 W• In motion: 11 W
Operating current	<ul style="list-style-type: none">• Station: 750 mA• Motion: 900 mA
Angular vibration range	±0.03°
Mounting	Detachable
Controllable range	<ul style="list-style-type: none">• Pitch: -90° to +30°• Pan: ±320°
Mechanical range	<ul style="list-style-type: none">• Pitch: -125° to +45°• Pan: ±330°
Max. controllable speed	<ul style="list-style-type: none">• Pitch: 120°/s• Pan: 180°/s

Camera (Zenmuse XT)	
Thermal imager	Uncooled VOx microbolometer
FPA/digital video display formats	640 × 512 pixels
Analog video display formats	<ul style="list-style-type: none">• 720 × 480 pixels (NTSC)• 720 × 576 pixels (PAL)
Pixel pitch	17 μm
Spectral band	7.5–13.5 μm
Frame rates	<ul style="list-style-type: none">• 30 Hz (NTSC)• 25 Hz (PAL)
Sensitivity (NEΔT)	<50 mK at f/1.0
Accuracy	±5°C (±9°F)
Scene range (high gain)	-25 to +135°C (-13 to +275°F)
Scene range (low gain)	-40 to 550°C (-40 to +1022°F)
Measurement area	Temperatures measured in the full image
File storage	Micro SD card. 16 GB Class 10 included, up to 32 GB supported.
Data logging	<ul style="list-style-type: none">• 8-bit AGC + LUT video at camera frame rate packaged in either .MOV or .MP4 wrappers.• 8-bit AGC + LUT still images in .JPG.• 14-bit TIFF raw still images with FLIR-specified metadata.

Camera (Zenmuse X3)	
Name	X3
Model	FC350
Total pixels	12.76 Mpixel
Effective pixels	12.4 Mpixel
Image max. size	4000 × 3000
ISO range	<ul style="list-style-type: none">• 100–3200 (video)• 100–1600 (photo)
Electronic shutter speed	8 s to 1/8000 s
FOV (field of view)	94°
CMOS	Sony EXMOR 1/2.3"



FLIR Aerial First Responder Advanced Kit, R (30 Hz)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Camera (Zemuse X3)	
Lens	<ul style="list-style-type: none">20 mm (35 mm format equivalent) f/2.8 focus at ∞9 elements in 9 groupsAnti-distortion
Still photography modes	<ul style="list-style-type: none">Single shootBurst shooting: 3/5/7 framesAuto exposure bracketing (AEB): 3/5 bracketed frames at 0.7 EV biasTime-lapse
Video recording modes	<ul style="list-style-type: none">UHD (4K): 4096x2160p24/25, 3840x2160p24/25/30FHD: 1920x1080p24/25/30/48/50/60HD: 1280x720p24/25/30/48/50/60
Max. bit rate of video storage	60 Mbps
Supported file formats	<ul style="list-style-type: none">FAT32/exFATPhoto: JPEG, DNGVideo: MP4/MOV (MPEG-4 AVC/H.264)
Supported SD card types	<ul style="list-style-type: none">Micro SDMax. capacity: 64 GB. Class 10 or UHS-1 rating required.
Operating temperature range	0 to +40°C (+32 to +104°F)

Image processing and display controls	
NTSC/PAL (field switchable)	Yes
Image optimization	Yes
Digital detail	Yes

Enhancement	
Polarity control (black hot/white hot)	Yes
Color and monochrome palettes (LUTs)	Yes
Digital zoom	2x, 4x, 8x

Lens model	
Focal length	13 mm
f number	f/1.25
FoV	45° x 37°
iFoV	1.308 mrad
Minimum focus distance	7.6 cm (3.0 in.)
Hyperfocal distance	4.4 m (14.4 ft.)
Hyperfocal depth of field	2.2 m (7.2 ft.)

Environmental	
Operating temperature range	-10 to +40°C (+14 to +104°F)
Non-operating temperature range	-30 to +70°C (-22 to +158°F)
Temperature shock	5°C/min (41°F/min)
Humidity	5-95%

Certifications	
Compliance	http://www.dji.com/euro-compliance



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Remote controller	
Name	C1
Operating frequency	<ul style="list-style-type: none">922.7–927.7 MHz (Japan only)5.725–5.825 GHz2.400–2.483 GHz
Transmitting distance	<ul style="list-style-type: none">Up to 5.0 km (3.1 miles) (unobstructed, free of interferences and FCC compliant) when it is FCC compliantUp to 3.5 km (2.1 miles) (unobstructed, free of interferences) when it is CE compliant
EIRP	<ul style="list-style-type: none">10 dBm @ 900 m13 dBm @ 5.8 G20 dBm @ 2.4 G
Video output port	USB, Mini-HDMI
Power supply	Built-in battery
Charging	DJI charger
Dual-user capability	Host-and-slave connection
Mobile device holder	Tablet or smart phone
Output power	9 W
Operating temperature range	–10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: –20 to +45°C (–4 to 113°F)More than 3 months: 22–28°C (72–82°F)
Charging temperature range	0–40°C (32–104°F)
Battery	6000 mA h LiPo 2S

Charger	
Model	A14-100P1A
Voltage	26.3 V
Rated power	100 W

Battery (standard)	
Name	Intelligent flight battery
Model	TB47
Capacity	4500 mA h
Voltage	22.2 V
Battery type	LiPo 6S high-voltage battery
Energy	99.9 W h
Net weight	570 g
Operating temperature range	–10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: –20 to +45°C (–4 to 113°F)More than 3 months: 22–28°C (72–82°F)
Charging temperature range	0–40°C (32–104°F)
Maximum charging power	180 W
Maximum number of charging cycles	200

Battery (optional)	
Name	Intelligent flight battery
Model	TB48



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Battery (optional)	
Capacity	5700 mA h
Voltage	22.8 V
Battery type	LiPo 6S
Energy	129.96 W h
Net weight	670 g
Operating temperature range	-10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: -20 to +45°C (-4 to 113°F)More than 3 months: 22-28°C (72-82°F)
Charging temperature range	0-40°C (32-104°F)
Maximum charging power	180 W
Maximum number of charging cycles	200

Vision positioning	
Velocity range	Below 8 m/s (26 ft./s) (2 m (6.6 ft.) above ground)
Altitude range	5-500 cm (2.0-200 in.)
Operating environment	Brightly lit (lux > 15) patterned surfaces
Operating range	0-300 cm (0-120 in.)

DJI GO app	
Mobile device system requirements	<ul style="list-style-type: none">iOS version 7.1 or laterAndroid version 4.1.2 or later
Supported mobile devices	<ul style="list-style-type: none">iPhone 6 PlusiPhone 6iPhone 5SiPad Air 2iPad Mini 3iPad AiriPad Mini 2iPad 4Samsung Note 3Samsung S5Sony Z3 EXPERIA <p>NOTE: It is recommended that you use a tablet for the best experience</p>

Documentation and firmware	
Download link	http://tinyurl.com/z8esgtc

Warranty	
Warranty	http://www.dji.com/service#warranty_period

Global trade data	
HS Code	<ul style="list-style-type: none">8802200015 (Inspire 1)9032896085 (Zenmuse XT)
ECCN code	6A003.b.4.b. (Zenmuse XT)

Shipping information	
Packaging type	Cardboard box



FLIR Aerial First Responder Advanced Kit, R (30 Hz)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Shipping information

List of contents

- Inspire T600 aircraft
- Zenmuse XT thermal camera with stabilized gimbal
- Zenmuse X3 video camera with stabilized gimbal
- Controllers (x2, one for the operator and one for the pilot)
- Battery (x3)
- FLIR Tools+
- iPad Mini 4 (128 GB, Wi-Fi and cellular) (x2)
- Monitor hood (x2)
- Landing pad
- Rugged carry case (x2)
- Landing Pad

P/N: 76503-1303

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Aircraft	
Model	Inspire 1 – T600
Weight (battery included)	2935 g (6.471 lb.)
Hovering accuracy (P mode)	<ul style="list-style-type: none"> Vertical: 0.5 m (1.6 ft.) Horizontal: 2.5 m (8.2 ft.)
Maximum angular velocity	<ul style="list-style-type: none"> Pitch: 300°/s Yaw: 150°/s
Maximum tilt angle	35°
Maximum ascent speed	5 m/s (16 ft./s)
Maximum descent speed	4 m/s (13 ft./s)
Maximum speed	22 m/s (72 ft./s) (ATTI mode, no wind)
Maximum service ceiling above sea level	4500 m (14 700 ft.) (software altitude limit: 120 m (390 ft.) above takeoff point)
Maximum wind speed resistance	10 m/s (32 ft./s)
Maximum flight time	Approximately 18 minutes
Motor model	DJI 3510
Propeller model	DJI 1345T
Indoor hovering	Enabled by default
Operating temperature range	-10 to +40°C (+14 to +104°F)
Diagonal distance	559–581 mm (22.0–22.8 in.)
Dimensions	438 mm × 451 mm × 301 mm (17.2 in. × 17.8 in. × 11.9 in.)

Gimbal (Zenmuse XT)	
Name	Zenmuse XT
Dimensions	103 mm × 74 mm × 102 mm (4.1 in. × 2.9 in. × 4.0 in.)
Weight	270 g (0.60 lb.)
Angular vibration range	±0.03°
Mount	Detachable
Controllable range	<ul style="list-style-type: none"> Tilt: +35° to -90° Pan: ±320° Roll: ±15°
Mechanical range	<ul style="list-style-type: none"> Tilt: +45° to -135° Pan: ±320° Roll: ±45°
Maximum controllable speed	120°/s



FLIR Aerial First Responder Advanced Kit, R (9 Hz)

P/N: 76503-1303

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Website

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Customer support

<http://support.flir.com>

Gimbal (Zenmuse X3)	
Model	Zenmuse X3
Output power (with camera)	<ul style="list-style-type: none"> Static: 9 W In motion: 11 W
Operating current	<ul style="list-style-type: none"> Station: 750 mA Motion: 900 mA
Angular vibration range	±0.03°
Mounting	Detachable
Controllable range	<ul style="list-style-type: none"> Pitch: -90° to +30° Pan: ±320°
Mechanical range	<ul style="list-style-type: none"> Pitch: -125° to +45° Pan: ±330°
Max. controllable speed	<ul style="list-style-type: none"> Pitch: 120°/s Pan: 180°/s

Camera (Zenmuse XT)	
Thermal imager	Uncooled VOx microbolometer
FPA/digital video display formats	640 × 512 pixels
Analog video display formats	<ul style="list-style-type: none"> 720 × 480 pixels (NTSC) 720 × 576 pixels (PAL)
Pixel pitch	17 μm
Spectral band	7.5–13.5 μm
Frame rates	<ul style="list-style-type: none"> 7.5 Hz NTSC 8.3 Hz PAL
Sensitivity (NEΔT)	<50 mK at f/1.0
Accuracy	±5°C (±9°F)
Scene range (high gain)	-25 to +135°C (-13 to +275°F)
Scene range (low gain)	-40 to 550°C (-40 to +1022°F)
Measurement area	Temperatures measured in the full image
File storage	Micro SD card. 16 GB Class 10 included, up to 32 GB supported.
Data logging	<ul style="list-style-type: none"> 8-bit AGC + LUT video at camera frame rate packaged in either .MOV or .MP4 wrappers. 8-bit AGC + LUT still images in .JPG. 14-bit TIFF raw still images with FLIR-specified metadata.

Camera (Zenmuse X3)	
Name	X3
Model	FC350
Total pixels	12.76 Mpixel
Effective pixels	12.4 Mpixel
Image max. size	4000 × 3000
ISO range	<ul style="list-style-type: none"> 100–3200 (video) 100–1600 (photo)
Electronic shutter speed	8 s to 1/8000 s
FOV (field of view)	94°
CMOS	Sony EXMOR 1/2.3"



FLIR Aerial First Responder Advanced Kit, R (9 Hz)

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Website

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Customer support

<http://support.flir.com>

Camera (Zemuse X3)	
Lens	<ul style="list-style-type: none">20 mm (35 mm format equivalent) f/2.8 focus at ∞9 elements in 9 groupsAnti-distortion
Still photography modes	<ul style="list-style-type: none">Single shootBurst shooting: 3/5/7 framesAuto exposure bracketing (AEB): 3/5 bracketed frames at 0.7 EV biasTime-lapse
Video recording modes	<ul style="list-style-type: none">UHD (4K): 4096x2160p24/25, 3840x2160p24/25/30FHD: 1920x1080p24/25/30/48/50/60HD: 1280x720p24/25/30/48/50/60
Max. bit rate of video storage	60 Mbps
Supported file formats	<ul style="list-style-type: none">FAT32/exFATPhoto: JPEG, DNGVideo: MP4/MOV (MPEG-4 AVC/H.264)
Supported SD card types	<ul style="list-style-type: none">Micro SDMax. capacity: 64 GB. Class 10 or UHS-1 rating required.
Operating temperature range	0 to +40°C (+32 to +104°F)

Image processing and display controls	
NTSC/PAL (field switchable)	Yes
Image optimization	Yes
Digital detail	Yes

Enhancement	
Polarity control (black hot/white hot)	Yes
Color and monochrome palettes (LUTs)	Yes
Digital zoom	2x, 4x, 8x

Lens model	
Focal length	13 mm
f number	f/1.25
FoV	45° x 37°
iFoV	1.308 mrad
Minimum focus distance	7.6 cm (3.0 in.)
Hyperfocal distance	4.4 m (14.4 ft.)
Hyperfocal depth of field	2.2 m (7.2 ft.)

Environmental	
Operating temperature range	-10 to +40°C (+14 to +104°F)
Non-operating temperature range	-30 to +70°C (-22 to +158°F)
Temperature shock	5°C/min (41°F/min)
Humidity	5-95%

Certifications	
Compliance	http://www.dji.com/euro-compliance



FLIR Aerial First Responder Advanced Kit, R (9 Hz)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Remote controller	
Name	C1
Operating frequency	<ul style="list-style-type: none">922.7–927.7 MHz (Japan only)5.725–5.825 GHz2.400–2.483 GHz
Transmitting distance	<ul style="list-style-type: none">Up to 5.0 km (3.1 miles) (unobstructed, free of interferences and FCC compliant) when it is FCC compliantUp to 3.5 km (2.1 miles) (unobstructed, free of interferences) when it is CE compliant
EIRP	<ul style="list-style-type: none">10 dBm @ 900 m13 dBm @ 5.8 G20 dBm @ 2.4 G
Video output port	USB, Mini-HDMI
Power supply	Built-in battery
Charging	DJI charger
Dual-user capability	Host-and-slave connection
Mobile device holder	Tablet or smart phone
Output power	9 W
Operating temperature range	–10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: –20 to +45°C (–4 to 113°F)More than 3 months: 22–28°C (72–82°F)
Charging temperature range	0–40°C (32–104°F)
Battery	6000 mA h LiPo 2S

Charger	
Model	A14-100P1A
Voltage	26.3 V
Rated power	100 W

Battery (standard)	
Name	Intelligent flight battery
Model	TB47
Capacity	4500 mA h
Voltage	22.2 V
Battery type	LiPo 6S high-voltage battery
Energy	99.9 W h
Net weight	570 g
Operating temperature range	–10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: –20 to +45°C (–4 to 113°F)More than 3 months: 22–28°C (72–82°F)
Charging temperature range	0–40°C (32–104°F)
Maximum charging power	180 W
Maximum number of charging cycles	200

Battery (optional)	
Name	Intelligent flight battery
Model	TB48



FLIR Aerial First Responder Advanced Kit, R (9 Hz)

P/N: 76503-1303

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Battery (optional)	
Capacity	5700 mA h
Voltage	22.8 V
Battery type	LiPo 6S
Energy	129.96 W h
Net weight	670 g
Operating temperature range	-10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: -20 to +45°C (-4 to 113°F)More than 3 months: 22-28°C (72-82°F)
Charging temperature range	0-40°C (32-104°F)
Maximum charging power	180 W
Maximum number of charging cycles	200

Vision positioning	
Velocity range	Below 8 m/s (26 ft./s) (2 m (6.6 ft.) above ground)
Altitude range	5-500 cm (2.0-200 in.)
Operating environment	Brightly lit (lux > 15) patterned surfaces
Operating range	0-300 cm (0-120 in.)

DJI GO app	
Mobile device system requirements	<ul style="list-style-type: none">iOS version 7.1 or laterAndroid version 4.1.2 or later
Supported mobile devices	<ul style="list-style-type: none">iPhone 6 PlusiPhone 6iPhone 5SiPad Air 2iPad Mini 3iPad AiriPad Mini 2iPad 4Samsung Note 3Samsung S5Sony Z3 EXPERIA <p>NOTE: It is recommended that you use a tablet for the best experience</p>

Documentation and firmware	
Download link	http://tinyurl.com/z8esgtc

Warranty	
Warranty	http://www.dji.com/service#warranty_period

Global trade data	
HS Code	<ul style="list-style-type: none">8802200015 (Inspire 1)9032896085 (Zenmuse XT)
ECCN code	6A993.a (Zenmuse XT)

Shipping information	
Packaging type	Cardboard box



FLIR Aerial First Responder Advanced Kit, R (9 Hz)

P/N: 76503-1303

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Website

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Customer support

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Shipping information

List of contents

- Inspire T600 aircraft
- Zenmuse XT thermal camera with stabilized gimbal
- Zenmuse X3 video camera with stabilized gimbal
- Controllers (x2, one for the operator and one for the pilot)
- Battery (x3)
- FLIR Tools+
- iPad Mini 4 (128 GB, Wi-Fi and cellular) (x2)
- Monitor hood (x2)
- Landing pad
- Rugged carry case (x2)
- Landing Pad

P/N: 75502-0202

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Website

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Customer support

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Aircraft	
Model	Inspire 1 – T600
Weight (battery included)	2935 g (6.471 lb.)
Hovering accuracy (P mode)	<ul style="list-style-type: none"> Vertical: 0.5 m (1.6 ft.) Horizontal: 2.5 m (8.2 ft.)
Maximum angular velocity	<ul style="list-style-type: none"> Pitch: 300°/s Yaw: 150°/s
Maximum tilt angle	35°
Maximum ascent speed	5 m/s (16 ft./s)
Maximum descent speed	4 m/s (13 ft./s)
Maximum speed	22 m/s (72 ft./s) (ATTI mode, no wind)
Maximum service ceiling above sea level	4500 m (14 700 ft.) (software altitude limit: 120 m (390 ft.) above takeoff point)
Maximum wind speed resistance	10 m/s (32 ft./s)
Maximum flight time	Approximately 18 minutes
Motor model	DJI 3510
Propeller model	DJI 1345T
Indoor hovering	Enabled by default
Operating temperature range	-10 to +40°C (+14 to +104°F)
Diagonal distance	559–581 mm (22.0–22.8 in.)
Dimensions	438 mm × 451 mm × 301 mm (17.2 in. × 17.8 in. × 11.9 in.)

Gimbal (Zenmuse XT)	
Name	Zenmuse XT
Dimensions	103 mm × 74 mm × 102 mm (4.1 in. × 2.9 in. × 4.0 in.)
Weight	270 g (0.60 lb.)
Angular vibration range	±0.03°
Mount	Detachable
Controllable range	<ul style="list-style-type: none"> Tilt: +35° to -90° Pan: ±320° Roll: ±15°
Mechanical range	<ul style="list-style-type: none"> Tilt: +45° to -135° Pan: ±320° Roll: ±45°
Maximum controllable speed	120°/s



FLIR Aerial First Responder Basic Kit (30 Hz)

P/N: 75502-0202

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Website

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Customer support

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Gimbal (Zenmuse X3)	
Model	Zenmuse X3
Output power (with camera)	<ul style="list-style-type: none">• Static: 9 W• In motion: 11 W
Operating current	<ul style="list-style-type: none">• Station: 750 mA• Motion: 900 mA
Angular vibration range	±0.03°
Mounting	Detachable
Controllable range	<ul style="list-style-type: none">• Pitch: -90° to +30°• Pan: ±320°
Mechanical range	<ul style="list-style-type: none">• Pitch: -125° to +45°• Pan: ±330°
Max. controllable speed	<ul style="list-style-type: none">• Pitch: 120°/s• Pan: 180°/s

Camera (Zenmuse XT)	
Thermal imager	Uncooled VOx microbolometer
FPA/digital video display formats	336 × 256 pixels
Analog video display formats	<ul style="list-style-type: none">• 720 × 480 pixels (NTSC)• 720 × 576 pixels (PAL)
Pixel pitch	17 μm
Spectral band	7.5–13.5 μm
Frame rates	<ul style="list-style-type: none">• 30/60 Hz (NTSC)• 25/50 Hz (PAL)
Sensitivity (NEΔT)	<50 mK at f/1.0
Accuracy	±20°C (±36°F)
Scene range (high gain)	-25 to +100°C (-13 to +212°F)
Scene range (low gain)	-40 to +550°C (-40 to +1022°F)
Spot meter	Temperatures measured in central 4 × 4 pixels
File storage	Micro SD card. 16 GB Class 10 included, up to 32 GB supported.
Data logging	<ul style="list-style-type: none">• 8-bit AGC + LUT video at camera frame rate packaged in either .MOV or .MP4 wrappers.• 8-bit AGC + LUT still images in .JPG.• 14-bit TIFF raw still images with FLIR-specified metadata.

Camera (Zenmuse X3)	
Name	X3
Model	FC350
Total pixels	12.76 Mpixel
Effective pixels	12.4 Mpixel
Image max. size	4000 × 3000
ISO range	<ul style="list-style-type: none">• 100–3200 (video)• 100–1600 (photo)
Electronic shutter speed	8 s to 1/8000 s
FOV (field of view)	94°
CMOS	Sony EXMOR 1/2.3"



FLIR Aerial First Responder Basic Kit (30 Hz)

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Website

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Customer support

<http://support.flir.com>

Camera (Zemuse X3)	
Lens	<ul style="list-style-type: none">20 mm (35 mm format equivalent) f/2.8 focus at ∞9 elements in 9 groupsAnti-distortion
Still photography modes	<ul style="list-style-type: none">Single shootBurst shooting: 3/5/7 framesAuto exposure bracketing (AEB): 3/5 bracketed frames at 0.7 EV biasTime-lapse
Video recording modes	<ul style="list-style-type: none">UHD (4K): 4096x2160p24/25, 3840x2160p24/25/30FHD: 1920x1080p24/25/30/48/50/60HD: 1280x720p24/25/30/48/50/60
Max. bit rate of video storage	60 Mbps
Supported file formats	<ul style="list-style-type: none">FAT32/exFATPhoto: JPEG, DNGVideo: MP4/MOV (MPEG-4 AVC/H.264)
Supported SD card types	<ul style="list-style-type: none">Micro SDMax. capacity: 64 GB. Class 10 or UHS-1 rating required.
Operating temperature range	0 to +40°C (+32 to +104°F)

Image processing and display controls	
NTSC/PAL (field switchable)	Yes
Image optimization	Yes
Digital detail	Yes

Enhancement	
Polarity control (black hot/white hot)	Yes
Color and monochrome palettes (LUTs)	Yes
Digital zoom	2x, 4x, 8x

Lens model	
Focal length	6.8 mm
f number	f/1.4
FoV	49.1° × 37.4°
iFoV	2.519 mrad
Minimum focus distance	2.3 cm (0.9 in.)
Hyperfocal distance	1.2 m (3.9 ft.)
Hyperfocal depth of field	0.6 m (2.0 ft.)

Environmental	
Operating temperature range	-10 to +40°C (+14 to +104°F)
Non-operating temperature range	-30 to +70°C (-22 to +158°F)
Temperature shock	5°C/min (41°F/min)
Humidity	5-95%

Certifications	
Compliance	http://www.dji.com/euro-compliance



FLIR Aerial First Responder Basic Kit (30 Hz)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Remote controller	
Name	C1
Operating frequency	<ul style="list-style-type: none">922.7–927.7 MHz (Japan only)5.725–5.825 GHz2.400–2.483 GHz
Transmitting distance	<ul style="list-style-type: none">Up to 5.0 km (3.1 miles) (unobstructed, free of interferences and FCC compliant) when it is FCC compliantUp to 3.5 km (2.1 miles) (unobstructed, free of interferences) when it is CE compliant
EIRP	<ul style="list-style-type: none">10 dBm @ 900 m13 dBm @ 5.8 G20 dBm @ 2.4 G
Video output port	USB, Mini-HDMI
Power supply	Built-in battery
Charging	DJI charger
Dual-user capability	Host-and-slave connection
Mobile device holder	Tablet or smart phone
Output power	9 W
Operating temperature range	–10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: –20 to +45°C (–4 to 113°F)More than 3 months: 22–28°C (72–82°F)
Charging temperature range	0–40°C (32–104°F)
Battery	6000 mA h LiPo 2S

Charger	
Model	A14-100P1A
Voltage	26.3 V
Rated power	100 W

Battery (standard)	
Name	Intelligent flight battery
Model	TB47
Capacity	4500 mA h
Voltage	22.2 V
Battery type	LiPo 6S high-voltage battery
Energy	99.9 W h
Net weight	570 g
Operating temperature range	–10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: –20 to +45°C (–4 to 113°F)More than 3 months: 22–28°C (72–82°F)
Charging temperature range	0–40°C (32–104°F)
Maximum charging power	180 W
Maximum number of charging cycles	200

Battery (optional)	
Name	Intelligent flight battery
Model	TB48



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Battery (optional)	
Capacity	5700 mA h
Voltage	22.8 V
Battery type	LiPo 6S
Energy	129.96 W h
Net weight	670 g
Operating temperature range	-10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: -20 to +45°C (-4 to 113°F)More than 3 months: 22-28°C (72-82°F)
Charging temperature range	0-40°C (32-104°F)
Maximum charging power	180 W
Maximum number of charging cycles	200

Vision positioning	
Velocity range	Below 8 m/s (26 ft./s) (2 m (6.6 ft.) above ground)
Altitude range	5-500 cm (2.0-200 in.)
Operating environment	Brightly lit (lux > 15) patterned surfaces
Operating range	0-300 cm (0-120 in.)

DJI GO app	
Mobile device system requirements	<ul style="list-style-type: none">iOS version 7.1 or laterAndroid version 4.1.2 or later
Supported mobile devices	<ul style="list-style-type: none">iPhone 6 PlusiPhone 6iPhone 5SiPad Air 2iPad Mini 3iPad AiriPad Mini 2iPad 4Samsung Note 3Samsung S5Sony Z3 EXPERIA <p>NOTE: It is recommended that you use a tablet for the best experience</p>

Documentation and firmware	
Download link	http://tinyurl.com/z8esgtc

Warranty	
Warranty	http://www.dji.com/service#warranty_period

Global trade data	
HS Code	<ul style="list-style-type: none">8802200015 (Inspire 1)9032896085 (Zenmuse XT)
ECCN code	6A003.b.4.b. (Zenmuse XT)

Shipping information	
Packaging type	Cardboard box



FLIR Aerial First Responder Basic Kit (30 Hz)

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Website

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Customer support

<http://support.flir.com>

Shipping information

List of contents

- Inspire T600 aircraft
- Zenmuse XT thermal camera with stabilized gimbal
- Zenmuse X3 video camera with stabilized gimbal
- Controller
- Battery (x3)
- FLIR Tools+
- iPad Mini 4 (128 GB, Wi-Fi and cellular)
- Monitor hood
- Landing pad
- Rugged carry case
- Landing Pad

P/N: 76402-0202

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Aircraft	
Model	Inspire 1 – T600
Weight (battery included)	2935 g (6.471 lb.)
Hovering accuracy (P mode)	<ul style="list-style-type: none"> Vertical: 0.5 m (1.6 ft.) Horizontal: 2.5 m (8.2 ft.)
Maximum angular velocity	<ul style="list-style-type: none"> Pitch: 300°/s Yaw: 150°/s
Maximum tilt angle	35°
Maximum ascent speed	5 m/s (16 ft./s)
Maximum descent speed	4 m/s (13 ft./s)
Maximum speed	22 m/s (72 ft./s) (ATTI mode, no wind)
Maximum service ceiling above sea level	4500 m (14 700 ft.) (software altitude limit: 120 m (390 ft.) above takeoff point)
Maximum wind speed resistance	10 m/s (32 ft./s)
Maximum flight time	Approximately 18 minutes
Motor model	DJI 3510
Propeller model	DJI 1345T
Indoor hovering	Enabled by default
Operating temperature range	-10 to +40°C (+14 to +104°F)
Diagonal distance	559–581 mm (22.0–22.8 in.)
Dimensions	438 mm × 451 mm × 301 mm (17.2 in. × 17.8 in. × 11.9 in.)

Gimbal (Zenmuse XT)	
Name	Zenmuse XT
Dimensions	103 mm × 74 mm × 102 mm (4.1 in. × 2.9 in. × 4.0 in.)
Weight	270 g (0.60 lb.)
Angular vibration range	±0.03°
Mount	Detachable
Controllable range	<ul style="list-style-type: none"> Tilt: +35° to -90° Pan: ±320° Roll: ±15°
Mechanical range	<ul style="list-style-type: none"> Tilt: +45° to -135° Pan: ±320° Roll: ±45°
Maximum controllable speed	120°/s



FLIR Aerial First Responder Basic Kit (9 Hz)

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Website

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Customer support

<http://support.flir.com>

Gimbal (Zenmuse X3)	
Model	Zenmuse X3
Output power (with camera)	<ul style="list-style-type: none"> Static: 9 W In motion: 11 W
Operating current	<ul style="list-style-type: none"> Station: 750 mA Motion: 900 mA
Angular vibration range	±0.03°
Mounting	Detachable
Controllable range	<ul style="list-style-type: none"> Pitch: -90° to +30° Pan: ±320°
Mechanical range	<ul style="list-style-type: none"> Pitch: -125° to +45° Pan: ±330°
Max. controllable speed	<ul style="list-style-type: none"> Pitch: 120°/s Pan: 180°/s

Camera (Zenmuse XT)	
Thermal imager	Uncooled VOx microbolometer
FPA/digital video display formats	336 × 256 pixels
Analog video display formats	<ul style="list-style-type: none"> 720 × 480 pixels (NTSC) 720 × 576 pixels (PAL)
Pixel pitch	17 μm
Spectral band	7.5–13.5 μm
Frame rates	<ul style="list-style-type: none"> 7.5 Hz (NTSC) 8.3 Hz (PAL)
Sensitivity (NEΔT)	<50 mK at f/1.0
Accuracy	±20°C (±36°F)
Scene range (high gain)	-25 to +100°C (-13 to +212°F)
Scene range (low gain)	-40 to +550°C (-40 to +1022°F)
Spot meter	Temperatures measured in central 4 × 4 pixels
File storage	Micro SD card. 16 GB Class 10 included, up to 32 GB supported.
Data logging	<ul style="list-style-type: none"> 8-bit AGC + LUT video at camera frame rate packaged in either .MOV or .MP4 wrappers. 8-bit AGC + LUT still images in .JPG. 14-bit TIFF raw still images with FLIR-specified metadata.

Camera (Zenmuse X3)	
Name	X3
Model	FC350
Total pixels	12.76 Mpixel
Effective pixels	12.4 Mpixel
Image max. size	4000 × 3000
ISO range	<ul style="list-style-type: none"> 100–3200 (video) 100–1600 (photo)
Electronic shutter speed	8 s to 1/8000 s
FOV (field of view)	94°
CMOS	Sony EXMOR 1/2.3"



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Website

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Customer support

<http://support.flir.com>

Camera (Zemuse X3)	
Lens	<ul style="list-style-type: none">20 mm (35 mm format equivalent) f/2.8 focus at ∞9 elements in 9 groupsAnti-distortion
Still photography modes	<ul style="list-style-type: none">Single shootBurst shooting: 3/5/7 framesAuto exposure bracketing (AEB): 3/5 bracketed frames at 0.7 EV biasTime-lapse
Video recording modes	<ul style="list-style-type: none">UHD (4K): 4096x2160p24/25, 3840x2160p24/25/30FHD: 1920x1080p24/25/30/48/50/60HD: 1280x720p24/25/30/48/50/60
Max. bit rate of video storage	60 Mbps
Supported file formats	<ul style="list-style-type: none">FAT32/exFATPhoto: JPEG, DNGVideo: MP4/MOV (MPEG-4 AVC/H.264)
Supported SD card types	<ul style="list-style-type: none">Micro SDMax. capacity: 64 GB. Class 10 or UHS-1 rating required.
Operating temperature range	0 to +40°C (+32 to +104°F)

Image processing and display controls	
NTSC/PAL (field switchable)	Yes
Image optimization	Yes
Digital detail	Yes

Enhancement	
Polarity control (black hot/white hot)	Yes
Color and monochrome palettes (LUTs)	Yes
Digital zoom	2x, 4x, 8x

Lens model	
Focal length	6.8 mm
f number	f/1.4
FoV	49.1° × 37.4°
iFoV	2.519 mrad
Minimum focus distance	2.3 cm (0.9 in.)
Hyperfocal distance	1.2 m (3.9 ft.)
Hyperfocal depth of field	0.6 m (2.0 ft.)

Environmental	
Operating temperature range	-10 to +40°C (+14 to +104°F)
Non-operating temperature range	-30 to +70°C (-22 to +158°F)
Temperature shock	5°C/min (41°F/min)
Humidity	5-95%

Certifications	
Compliance	http://www.dji.com/euro-compliance



FLIR Aerial First Responder Basic Kit (9 Hz)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Remote controller	
Name	C1
Operating frequency	<ul style="list-style-type: none">922.7–927.7 MHz (Japan only)5.725–5.825 GHz2.400–2.483 GHz
Transmitting distance	<ul style="list-style-type: none">Up to 5.0 km (3.1 miles) (unobstructed, free of interferences and FCC compliant) when it is FCC compliantUp to 3.5 km (2.1 miles) (unobstructed, free of interferences) when it is CE compliant
EIRP	<ul style="list-style-type: none">10 dBm @ 900 m13 dBm @ 5.8 G20 dBm @ 2.4 G
Video output port	USB, Mini-HDMI
Power supply	Built-in battery
Charging	DJI charger
Dual-user capability	Host-and-slave connection
Mobile device holder	Tablet or smart phone
Output power	9 W
Operating temperature range	–10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: –20 to +45°C (–4 to 113°F)More than 3 months: 22–28°C (72–82°F)
Charging temperature range	0–40°C (32–104°F)
Battery	6000 mA h LiPo 2S

Charger	
Model	A14-100P1A
Voltage	26.3 V
Rated power	100 W

Battery (standard)	
Name	Intelligent flight battery
Model	TB47
Capacity	4500 mA h
Voltage	22.2 V
Battery type	LiPo 6S high-voltage battery
Energy	99.9 W h
Net weight	570 g
Operating temperature range	–10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: –20 to +45°C (–4 to 113°F)More than 3 months: 22–28°C (72–82°F)
Charging temperature range	0–40°C (32–104°F)
Maximum charging power	180 W
Maximum number of charging cycles	200

Battery (optional)	
Name	Intelligent flight battery
Model	TB48



FLIR Aerial First Responder Basic Kit (9 Hz)

P/N: 76402-0202

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Customer support

<http://support.flir.com>

Battery (optional)	
Capacity	5700 mA h
Voltage	22.8 V
Battery type	LiPo 6S
Energy	129.96 W h
Net weight	670 g
Operating temperature range	-10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: -20 to +45°C (-4 to 113°F)More than 3 months: 22-28°C (72-82°F)
Charging temperature range	0-40°C (32-104°F)
Maximum charging power	180 W
Maximum number of charging cycles	200

Vision positioning	
Velocity range	Below 8 m/s (26 ft./s) (2 m (6.6 ft.) above ground)
Altitude range	5-500 cm (2.0-200 in.)
Operating environment	Brightly lit (lux > 15) patterned surfaces
Operating range	0-300 cm (0-120 in.)

DJI GO app	
Mobile device system requirements	<ul style="list-style-type: none">iOS version 7.1 or laterAndroid version 4.1.2 or later
Supported mobile devices	<ul style="list-style-type: none">iPhone 6 PlusiPhone 6iPhone 5SiPad Air 2iPad Mini 3iPad AiriPad Mini 2iPad 4Samsung Note 3Samsung S5Sony Z3 EXPERIA <p>NOTE: It is recommended that you use a tablet for the best experience</p>

Documentation and firmware	
Download link	http://tinyurl.com/z8esgtc

Warranty	
Warranty	http://www.dji.com/service#warranty_period

Global trade data	
HS Code	<ul style="list-style-type: none">8802200015 (Inspire 1)9032896085 (Zenmuse XT)
ECCN code	6A993.a (Zenmuse XT)

Shipping information	
Packaging type	Cardboard box



FLIR Aerial First Responder Basic Kit (9 Hz)

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Shipping information

List of contents

- Inspire T600 aircraft
- Zenmuse XT thermal camera with stabilized gimbal
- Zenmuse X3 video camera with stabilized gimbal
- Controller
- Battery (x3)
- FLIR Tools+
- iPad Mini 4 (128 GB, Wi-Fi and cellular)
- Monitor hood
- Landing pad
- Rugged carry case
- Landing Pad

P/N: 75502-0204

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Website

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Customer support

<http://support.flir.com>



Aircraft	
Model	Inspire 1 – T600
Weight (battery included)	2935 g (6.471 lb.)
Hovering accuracy (P mode)	<ul style="list-style-type: none"> Vertical: 0.5 m (1.6 ft.) Horizontal: 2.5 m (8.2 ft.)
Maximum angular velocity	<ul style="list-style-type: none"> Pitch: 300°/s Yaw: 150°/s
Maximum tilt angle	35°
Maximum ascent speed	5 m/s (16 ft./s)
Maximum descent speed	4 m/s (13 ft./s)
Maximum speed	22 m/s (72 ft./s) (ATTI mode, no wind)
Maximum service ceiling above sea level	4500 m (14 700 ft.) (software altitude limit: 120 m (390 ft.) above takeoff point)
Maximum wind speed resistance	10 m/s (32 ft./s)
Maximum flight time	Approximately 18 minutes
Motor model	DJI 3510
Propeller model	DJI 1345T
Indoor hovering	Enabled by default
Operating temperature range	-10 to +40°C (+14 to +104°F)
Diagonal distance	559–581 mm (22.0–22.8 in.)
Dimensions	438 mm × 451 mm × 301 mm (17.2 in. × 17.8 in. × 11.9 in.)

Gimbal (Zenmuse XT)	
Name	Zenmuse XT
Dimensions	103 mm × 74 mm × 102 mm (4.1 in. × 2.9 in. × 4.0 in.)
Weight	270 g (0.60 lb.)
Angular vibration range	±0.03°
Mount	Detachable
Controllable range	<ul style="list-style-type: none"> Tilt: +35° to -90° Pan: ±320° Roll: ±15°
Mechanical range	<ul style="list-style-type: none"> Tilt: +45° to -135° Pan: ±320° Roll: ±45°
Maximum controllable speed	120°/s



FLIR Aerial First Responder Basic Kit w/out iPad (30 Hz)

P/N: 75502-0204

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Website

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Customer support

<http://support.flir.com>

Gimbal (Zenmuse X3)	
Model	Zenmuse X3
Output power (with camera)	<ul style="list-style-type: none"> • Static: 9 W • In motion: 11 W
Operating current	<ul style="list-style-type: none"> • Station: 750 mA • Motion: 900 mA
Angular vibration range	±0.03°
Mounting	Detachable
Controllable range	<ul style="list-style-type: none"> • Pitch: -90° to +30° • Pan: ±320°
Mechanical range	<ul style="list-style-type: none"> • Pitch: -125° to +45° • Pan: ±330°
Max. controllable speed	<ul style="list-style-type: none"> • Pitch: 120°/s • Pan: 180°/s

Camera (Zenmuse XT)	
Thermal imager	Uncooled VOx microbolometer
FPA/digital video display formats	336 × 256 pixels
Analog video display formats	<ul style="list-style-type: none"> • 720 × 480 pixels (NTSC) • 720 × 576 pixels (PAL)
Pixel pitch	17 μm
Spectral band	7.5–13.5 μm
Frame rates	<ul style="list-style-type: none"> • 30/60 Hz (NTSC) • 25/50 Hz (PAL)
Sensitivity (NEΔT)	<50 mK at f/1.0
Accuracy	±20°C (±36°F)
Scene range (high gain)	-25 to +100°C (-13 to +212°F)
Scene range (low gain)	-40 to +550°C (-40 to +1022°F)
Spot meter	Temperatures measured in central 4 × 4 pixels
File storage	Micro SD card. 16 GB Class 10 included, up to 32 GB supported.
Data logging	<ul style="list-style-type: none"> • 8-bit AGC + LUT video at camera frame rate packaged in either .MOV or .MP4 wrappers. • 8-bit AGC + LUT still images in .JPG. • 14-bit TIFF raw still images with FLIR-specified metadata.

Camera (Zenmuse X3)	
Name	X3
Model	FC350
Total pixels	12.76 Mpixel
Effective pixels	12.4 Mpixel
Image max. size	4000 × 3000
ISO range	<ul style="list-style-type: none"> • 100–3200 (video) • 100–1600 (photo)
Electronic shutter speed	8 s to 1/8000 s
FOV (field of view)	94°
CMOS	Sony EXMOR 1/2.3"



FLIR Aerial First Responder Basic Kit w/out iPad (30 Hz)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Camera (Zemuse X3)	
Lens	<ul style="list-style-type: none">• 20 mm (35 mm format equivalent) f/2.8 focus at ∞• 9 elements in 9 groups• Anti-distortion
Still photography modes	<ul style="list-style-type: none">• Single shoot• Burst shooting: 3/5/7 frames• Auto exposure bracketing (AEB): 3/5 bracketed frames at 0.7 EV bias• Time-lapse
Video recording modes	<ul style="list-style-type: none">• UHD (4K): 4096x2160p24/25, 3840x2160p24/25/30• FHD: 1920x1080p24/25/30/48/50/60• HD: 1280x720p24/25/30/48/50/60
Max. bit rate of video storage	60 Mbps
Supported file formats	<ul style="list-style-type: none">• FAT32/exFAT• Photo: JPEG, DNG• Video: MP4/MOV (MPEG-4 AVC/H.264)
Supported SD card types	<ul style="list-style-type: none">• Micro SD• Max. capacity: 64 GB. Class 10 or UHS-1 rating required.
Operating temperature range	0 to +40°C (+32 to +104°F)

Image processing and display controls	
NTSC/PAL (field switchable)	Yes
Image optimization	Yes
Digital detail	Yes

Enhancement	
Polarity control (black hot/white hot)	Yes
Color and monochrome palettes (LUTs)	Yes
Digital zoom	2x, 4x, 8x

Lens model	
Focal length	6.8 mm
f number	f/1.4
FoV	49.1° × 37.4°
iFoV	2.519 mrad
Minimum focus distance	2.3 cm (0.9 in.)
Hyperfocal distance	1.2 m (3.9 ft.)
Hyperfocal depth of field	0.6 m (2.0 ft.)

Environmental	
Operating temperature range	-10 to +40°C (+14 to +104°F)
Non-operating temperature range	-30 to +70°C (-22 to +158°F)
Temperature shock	5°C/min (41°F/min)
Humidity	5-95%

Certifications	
Compliance	http://www.dji.com/euro-compliance



FLIR Aerial First Responder Basic Kit w/out iPad (30 Hz)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Remote controller	
Name	C1
Operating frequency	<ul style="list-style-type: none">• 922.7–927.7 MHz (Japan only)• 5.725–5.825 GHz• 2.400–2.483 GHz
Transmitting distance	<ul style="list-style-type: none">• Up to 5.0 km (3.1 miles) (unobstructed, free of interferences and FCC compliant) when it is FCC compliant• Up to 3.5 km (2.1 miles) (unobstructed, free of interferences) when it is CE compliant
EIRP	<ul style="list-style-type: none">• 10 dBm @ 900 m• 13 dBm @ 5.8 G• 20 dBm @ 2.4 G
Video output port	USB, Mini-HDMI
Power supply	Built-in battery
Charging	DJI charger
Dual-user capability	Host-and-slave connection
Mobile device holder	Tablet or smart phone
Output power	9 W
Operating temperature range	–10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">• Less than 3 months: –20 to +45°C (–4 to 113°F)• More than 3 months: 22–28°C (72–82°F)
Charging temperature range	0–40°C (32–104°F)
Battery	6000 mA h LiPo 2S

Charger	
Model	A14-100P1A
Voltage	26.3 V
Rated power	100 W

Battery (standard)	
Name	Intelligent flight battery
Model	TB47
Capacity	4500 mA h
Voltage	22.2 V
Battery type	LiPo 6S high-voltage battery
Energy	99.9 W h
Net weight	570 g
Operating temperature range	–10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">• Less than 3 months: –20 to +45°C (–4 to 113°F)• More than 3 months: 22–28°C (72–82°F)
Charging temperature range	0–40°C (32–104°F)
Maximum charging power	180 W
Maximum number of charging cycles	200

Battery (optional)	
Name	Intelligent flight battery
Model	TB48



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Battery (optional)	
Capacity	5700 mA h
Voltage	22.8 V
Battery type	LiPo 6S
Energy	129.96 W h
Net weight	670 g
Operating temperature range	-10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">• Less than 3 months: -20 to +45°C (-4 to 113°F)• More than 3 months: 22-28°C (72-82°F)
Charging temperature range	0-40°C (32-104°F)
Maximum charging power	180 W
Maximum number of charging cycles	200

Vision positioning	
Velocity range	Below 8 m/s (26 ft./s) (2 m (6.6 ft.) above ground)
Altitude range	5-500 cm (2.0-200 in.)
Operating environment	Brightly lit (lux > 15) patterned surfaces
Operating range	0-300 cm (0-120 in.)

DJI GO app	
Mobile device system requirements	<ul style="list-style-type: none">• iOS version 7.1 or later• Android version 4.1.2 or later
Supported mobile devices	<ul style="list-style-type: none">• iPhone 6 Plus• iPhone 6• iPhone 5S• iPad Air 2• iPad Mini 3• iPad Air• iPad Mini 2• iPad 4• Samsung Note 3• Samsung S5• Sony Z3 EXPERIA <p>NOTE: It is recommended that you use a tablet for the best experience</p>

Documentation and firmware	
Download link	http://tinyurl.com/z8esgtc

Warranty	
Warranty	http://www.dji.com/service#warranty_period

Shipping information	
Packaging type	Cardboard box
List of contents	<ul style="list-style-type: none">• Inspire T600 aircraft• Zenmuse XT thermal camera with stabilized gimbal• Zenmuse X3 video camera with stabilized gimbal• Controller• Battery (x3)• FLIR Tools+• Monitor hood• Landing pad• Rugged carry case• Landing Pad

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Aircraft	
Model	Inspire 1 – T600
Weight (battery included)	2935 g (6.471 lb.)
Hovering accuracy (P mode)	<ul style="list-style-type: none"> Vertical: 0.5 m (1.6 ft.) Horizontal: 2.5 m (8.2 ft.)
Maximum angular velocity	<ul style="list-style-type: none"> Pitch: 300°/s Yaw: 150°/s
Maximum tilt angle	35°
Maximum ascent speed	5 m/s (16 ft./s)
Maximum descent speed	4 m/s (13 ft./s)
Maximum speed	22 m/s (72 ft./s) (ATTI mode, no wind)
Maximum service ceiling above sea level	4500 m (14 700 ft.) (software altitude limit: 120 m (390 ft.) above takeoff point)
Maximum wind speed resistance	10 m/s (32 ft./s)
Maximum flight time	Approximately 18 minutes
Motor model	DJI 3510
Propeller model	DJI 1345T
Indoor hovering	Enabled by default
Operating temperature range	-10 to +40°C (+14 to +104°F)
Diagonal distance	559–581 mm (22.0–22.8 in.)
Dimensions	438 mm × 451 mm × 301 mm (17.2 in. × 17.8 in. × 11.9 in.)

Gimbal (Zenmuse XT)	
Name	Zenmuse XT
Dimensions	103 mm × 74 mm × 102 mm (4.1 in. × 2.9 in. × 4.0 in.)
Weight	270 g (0.60 lb.)
Angular vibration range	±0.03°
Mount	Detachable
Controllable range	<ul style="list-style-type: none"> Tilt: +35° to -90° Pan: ±320° Roll: ±15°
Mechanical range	<ul style="list-style-type: none"> Tilt: +45° to -135° Pan: ±320° Roll: ±45°
Maximum controllable speed	120°/s



FLIR Aerial First Responder Basic Kit w/out iPad (9 Hz)

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Website

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Customer support

<http://support.flir.com>

Gimbal (Zenmuse X3)	
Model	Zenmuse X3
Output power (with camera)	<ul style="list-style-type: none"> • Static: 9 W • In motion: 11 W
Operating current	<ul style="list-style-type: none"> • Station: 750 mA • Motion: 900 mA
Angular vibration range	±0.03°
Mounting	Detachable
Controllable range	<ul style="list-style-type: none"> • Pitch: -90° to +30° • Pan: ±320°
Mechanical range	<ul style="list-style-type: none"> • Pitch: -125° to +45° • Pan: ±330°
Max. controllable speed	<ul style="list-style-type: none"> • Pitch: 120°/s • Pan: 180°/s

Camera (Zenmuse XT)	
Thermal imager	Uncooled VOx microbolometer
FPA/digital video display formats	336 × 256 pixels
Analog video display formats	<ul style="list-style-type: none"> • 720 × 480 pixels (NTSC) • 720 × 576 pixels (PAL)
Pixel pitch	17 μm
Spectral band	7.5–13.5 μm
Frame rates	<ul style="list-style-type: none"> • 7.5 Hz (NTSC) • 8.3 Hz (PAL)
Sensitivity (NEΔT)	<50 mK at f/1.0
Accuracy	±20°C (±36°F)
Scene range (high gain)	-25 to +100°C (-13 to +212°F)
Scene range (low gain)	-40 to +550°C (-40 to +1022°F)
Spot meter	Temperatures measured in central 4 × 4 pixels
File storage	Micro SD card. 16 GB Class 10 included, up to 32 GB supported.
Data logging	<ul style="list-style-type: none"> • 8-bit AGC + LUT video at camera frame rate packaged in either .MOV or .MP4 wrappers. • 8-bit AGC + LUT still images in .JPG. • 14-bit TIFF raw still images with FLIR-specified metadata.

Camera (Zenmuse X3)	
Name	X3
Model	FC350
Total pixels	12.76 Mpixel
Effective pixels	12.4 Mpixel
Image max. size	4000 × 3000
ISO range	<ul style="list-style-type: none"> • 100–3200 (video) • 100–1600 (photo)
Electronic shutter speed	8 s to 1/8000 s
FOV (field of view)	94°
CMOS	Sony EXMOR 1/2.3"



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Camera (Zemuse X3)	
Lens	<ul style="list-style-type: none">• 20 mm (35 mm format equivalent) f/2.8 focus at ∞• 9 elements in 9 groups• Anti-distortion
Still photography modes	<ul style="list-style-type: none">• Single shoot• Burst shooting: 3/5/7 frames• Auto exposure bracketing (AEB): 3/5 bracketed frames at 0.7 EV bias• Time-lapse
Video recording modes	<ul style="list-style-type: none">• UHD (4K): 4096x2160p24/25, 3840x2160p24/25/30• FHD: 1920x1080p24/25/30/48/50/60• HD: 1280x720p24/25/30/48/50/60
Max. bit rate of video storage	60 Mbps
Supported file formats	<ul style="list-style-type: none">• FAT32/exFAT• Photo: JPEG, DNG• Video: MP4/MOV (MPEG-4 AVC/H.264)
Supported SD card types	<ul style="list-style-type: none">• Micro SD• Max. capacity: 64 GB. Class 10 or UHS-1 rating required.
Operating temperature range	0 to +40°C (+32 to +104°F)

Image processing and display controls	
NTSC/PAL (field switchable)	Yes
Image optimization	Yes
Digital detail	Yes

Enhancement	
Polarity control (black hot/white hot)	Yes
Color and monochrome palettes (LUTs)	Yes
Digital zoom	2x, 4x, 8x

Lens model	
Focal length	6.8 mm
f number	f/1.4
FoV	49.1° × 37.4°
iFoV	2.519 mrad
Minimum focus distance	2.3 cm (0.9 in.)
Hyperfocal distance	1.2 m (3.9 ft.)
Hyperfocal depth of field	0.6 m (2.0 ft.)

Environmental	
Operating temperature range	-10 to +40°C (+14 to +104°F)
Non-operating temperature range	-30 to +70°C (-22 to +158°F)
Temperature shock	5°C/min (41°F/min)
Humidity	5-95%

Certifications	
Compliance	http://www.dji.com/euro-compliance



FLIR Aerial First Responder Basic Kit w/out iPad (9 Hz)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Remote controller	
Name	C1
Operating frequency	<ul style="list-style-type: none">• 922.7–927.7 MHz (Japan only)• 5.725–5.825 GHz• 2.400–2.483 GHz
Transmitting distance	<ul style="list-style-type: none">• Up to 5.0 km (3.1 miles) (unobstructed, free of interferences and FCC compliant) when it is FCC compliant• Up to 3.5 km (2.1 miles) (unobstructed, free of interferences) when it is CE compliant
EIRP	<ul style="list-style-type: none">• 10 dBm @ 900 m• 13 dBm @ 5.8 G• 20 dBm @ 2.4 G
Video output port	USB, Mini-HDMI
Power supply	Built-in battery
Charging	DJI charger
Dual-user capability	Host-and-slave connection
Mobile device holder	Tablet or smart phone
Output power	9 W
Operating temperature range	–10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">• Less than 3 months: –20 to +45°C (–4 to 113°F)• More than 3 months: 22–28°C (72–82°F)
Charging temperature range	0–40°C (32–104°F)
Battery	6000 mA h LiPo 2S

Charger	
Model	A14-100P1A
Voltage	26.3 V
Rated power	100 W

Battery (standard)	
Name	Intelligent flight battery
Model	TB47
Capacity	4500 mA h
Voltage	22.2 V
Battery type	LiPo 6S high-voltage battery
Energy	99.9 W h
Net weight	570 g
Operating temperature range	–10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">• Less than 3 months: –20 to +45°C (–4 to 113°F)• More than 3 months: 22–28°C (72–82°F)
Charging temperature range	0–40°C (32–104°F)
Maximum charging power	180 W
Maximum number of charging cycles	200

Battery (optional)	
Name	Intelligent flight battery
Model	TB48



FLIR Aerial First Responder Basic Kit w/out iPad (9 Hz)

P/N: 76402-0204

Revision

36768

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Battery (optional)	
Capacity	5700 mA h
Voltage	22.8 V
Battery type	LiPo 6S
Energy	129.96 W h
Net weight	670 g
Operating temperature range	-10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">• Less than 3 months: -20 to +45°C (-4 to 113°F)• More than 3 months: 22-28°C (72-82°F)
Charging temperature range	0-40°C (32-104°F)
Maximum charging power	180 W
Maximum number of charging cycles	200

Vision positioning	
Velocity range	Below 8 m/s (26 ft./s) (2 m (6.6 ft.) above ground)
Altitude range	5-500 cm (2.0-200 in.)
Operating environment	Brightly lit (lux > 15) patterned surfaces
Operating range	0-300 cm (0-120 in.)

DJI GO app	
Mobile device system requirements	<ul style="list-style-type: none">• iOS version 7.1 or later• Android version 4.1.2 or later
Supported mobile devices	<ul style="list-style-type: none">• iPhone 6 Plus• iPhone 6• iPhone 5S• iPad Air 2• iPad Mini 3• iPad Air• iPad Mini 2• iPad 4• Samsung Note 3• Samsung S5• Sony Z3 EXPERIA <p>NOTE: It is recommended that you use a tablet for the best experience</p>

Documentation and firmware	
Download link	http://tinyurl.com/z8esgtc

Warranty	
Warranty	http://www.dji.com/service#warranty_period

Shipping information	
Packaging type	Cardboard box
List of contents	<ul style="list-style-type: none">• Inspire T600 aircraft• Zenmuse XT thermal camera with stabilized gimbal• Zenmuse X3 video camera with stabilized gimbal• Controller• Battery (x3)• FLIR Tools+• Monitor hood• Landing pad• Rugged carry case• Landing Pad

P/N: 75501-0101

Revision

38391

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2016-11-18 09:01 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Aircraft	
Model	Inspire 1 – T600
Weight (battery included)	2935 g (6.471 lb.)
Hovering accuracy (P mode)	<ul style="list-style-type: none"> Vertical: 0.5 m (1.6 ft.) Horizontal: 2.5 m (8.2 ft.)
Maximum angular velocity	<ul style="list-style-type: none"> Pitch: 300°/s Yaw: 150°/s
Maximum tilt angle	35°
Maximum ascent speed	5 m/s (16 ft./s)
Maximum descent speed	4 m/s (13 ft./s)
Maximum speed	22 m/s (72 ft./s) (ATTI mode, no wind)
Maximum service ceiling above sea level	4500 m (14 700 ft.) (software altitude limit: 120 m (390 ft.) above takeoff point)
Maximum wind speed resistance	10 m/s (32 ft./s)
Maximum flight time	Approximately 18 minutes
Motor model	DJI 3510
Propeller model	DJI 1345T
Indoor hovering	Enabled by default
Operating temperature range	-10 to +40°C (+14 to +104°F)
Diagonal distance	559–581 mm (22.0–22.8 in.)
Dimensions	438 mm × 451 mm × 301 mm (17.2 in. × 17.8 in. × 11.9 in.)

Gimbal (Zenmuse XT)	
Name	Zenmuse XT
Dimensions	103 mm × 74 mm × 102 mm (4.1 in. × 2.9 in. × 4.0 in.)
Weight	270 g (0.60 lb.)
Angular vibration range	±0.03°
Mount	Detachable
Controllable range	<ul style="list-style-type: none"> Tilt: +35° to -90° Pan: ±320° Roll: ±15°
Mechanical range	<ul style="list-style-type: none"> Tilt: +45° to -135° Pan: ±320° Roll: ±45°
Maximum controllable speed	120°/s



FLIR Aerial Home Inspection Kit (30 Hz)

P/N: 75501-0101

Revision

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Website

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Customer support

<http://support.flir.com>

Gimbal (Zenmuse X3)	
Model	Zenmuse X3
Output power (with camera)	<ul style="list-style-type: none">• Static: 9 W• In motion: 11 W
Operating current	<ul style="list-style-type: none">• Station: 750 mA• Motion: 900 mA
Angular vibration range	±0.03°
Mounting	Detachable
Controllable range	<ul style="list-style-type: none">• Pitch: -90° to +30°• Pan: ±320°
Mechanical range	<ul style="list-style-type: none">• Pitch: -125° to +45°• Pan: ±330°
Max. controllable speed	<ul style="list-style-type: none">• Pitch: 120°/s• Pan: 180°/s

Camera (Zenmuse XT)	
Thermal imager	Uncooled VOx microbolometer
FPA/digital video display formats	336 × 256 pixels
Analog video display formats	<ul style="list-style-type: none">• 720 × 480 pixels (NTSC)• 720 × 576 pixels (PAL)
Pixel pitch	17 μm
Spectral band	7.5–13.5 μm
Frame rates	<ul style="list-style-type: none">• 30/60 Hz (NTSC)• 25/50 Hz (PAL)
Sensitivity (NETD)	<50 mK at f/1.0
Accuracy	±20°C (±36°F)
Scene range (high gain)	-25 to +100°C (-13 to +212°F)
Scene range (low gain)	-40 to +550°C (-40 to +1022°F)
Spot meter	Temperatures measured in central 4 × 4 pixels
File storage	Micro SD card. 16 GB Class 10 included, up to 32 GB supported.
Data logging	<ul style="list-style-type: none">• 8-bit AGC + LUT video at camera frame rate packaged in either .MOV or .MP4 wrappers.• 8-bit AGC + LUT still images in .JPG.• 14-bit TIFF raw still images with FLIR-specified metadata.

Camera (Zenmuse X3)	
Name	X3
Model	FC350
Total pixels	12.76 Mpixel
Effective pixels	12.4 Mpixel
Image max. size	4000 × 3000
ISO range	<ul style="list-style-type: none">• 100–3200 (video)• 100–1600 (photo)
Electronic shutter speed	8 s to 1/8000 s
FOV (field of view)	94°
CMOS	Sony EXMOR 1/2.3"



FLIR Aerial Home Inspection Kit (30 Hz)

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Website

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Customer support

<http://support.flir.com>

Camera (Zemuse X3)	
Lens	<ul style="list-style-type: none">• 20 mm (35 mm format equivalent) f/2.8 focus at ∞• 9 elements in 9 groups• Anti-distortion
Still photography modes	<ul style="list-style-type: none">• Single shoot• Burst shooting: 3/5/7 frames• Auto exposure bracketing (AEB): 3/5 bracketed frames at 0.7 EV bias• Time-lapse
Video recording modes	<ul style="list-style-type: none">• UHD (4K): 4096x2160p24/25, 3840x2160p24/25/30• FHD: 1920x1080p24/25/30/48/50/60• HD: 1280x720p24/25/30/48/50/60
Max. bit rate of video storage	60 Mbps
Supported file formats	<ul style="list-style-type: none">• FAT32/exFAT• Photo: JPEG, DNG• Video: MP4/MOV (MPEG-4 AVC/H.264)
Supported SD card types	<ul style="list-style-type: none">• Micro SD• Max. capacity: 64 GB. Class 10 or UHS-1 rating required.
Operating temperature range	0 to +40°C (+32 to +104°F)

Image processing and display controls	
NTSC/PAL (field switchable)	Yes
Image optimization	Yes
Digital detail	Yes

Enhancement	
Polarity control (black hot/white hot)	Yes
Color and monochrome palettes (LUTs)	Yes
Digital zoom	2x, 4x, 8x

Lens model	
Focal length	6.8 mm
f number	f/1.4
FoV	49.1° × 37.4°
iFoV	2.519 mrad
Minimum focus distance	2.3 cm (0.9 in.)
Hyperfocal distance	1.2 m (3.9 ft.)
Hyperfocal depth of field	0.6 m (2.0 ft.)

Environmental	
Operating temperature range	-10 to +40°C (+14 to +104°F)
Non-operating temperature range	-30 to +70°C (-22 to +158°F)
Temperature shock	5°C/min (41°F/min)
Humidity	5-95%

Certifications	
Compliance	http://www.dji.com/euro-compliance



FLIR Aerial Home Inspection Kit (30 Hz)

P/N: 75501-0101

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Remote controller	
Name	C1
Operating frequency	<ul style="list-style-type: none">922.7–927.7 MHz (Japan only)5.725–5.825 GHz2.400–2.483 GHz
Transmitting distance	<ul style="list-style-type: none">Up to 5.0 km (3.1 miles) (unobstructed, free of interferences and FCC compliant) when it is FCC compliantUp to 3.5 km (2.1 miles) (unobstructed, free of interferences) when it is CE compliant
EIRP	<ul style="list-style-type: none">10 dBm @ 900 m13 dBm @ 5.8 G20 dBm @ 2.4 G
Video output port	USB, Mini-HDMI
Power supply	Built-in battery
Charging	DJI charger
Dual-user capability	Host-and-slave connection
Mobile device holder	Tablet or smart phone
Output power	9 W
Operating temperature range	–10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: –20 to +45°C (–4 to 113°F)More than 3 months: 22–28°C (72–82°F)
Charging temperature range	0–40°C (32–104°F)
Battery	6000 mA h LiPo 2S

Charger	
Model	A14-100P1A
Voltage	26.3 V
Rated power	100 W

Battery (standard)	
Name	Intelligent flight battery
Model	TB47
Capacity	4500 mA h
Voltage	22.2 V
Battery type	LiPo 6S high-voltage battery
Energy	99.9 W h
Net weight	570 g
Operating temperature range	–10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: –20 to +45°C (–4 to 113°F)More than 3 months: 22–28°C (72–82°F)
Charging temperature range	0–40°C (32–104°F)
Maximum charging power	180 W
Maximum number of charging cycles	200

Battery (optional)	
Name	Intelligent flight battery
Model	TB48



FLIR Aerial Home Inspection Kit (30 Hz)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Battery (optional)	
Capacity	5700 mA h
Voltage	22.8 V
Battery type	LiPo 6S
Energy	129.96 W h
Net weight	670 g
Operating temperature range	-10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: -20 to +45°C (-4 to 113°F)More than 3 months: 22-28°C (72-82°F)
Charging temperature range	0-40°C (32-104°F)
Maximum charging power	180 W
Maximum number of charging cycles	200

Vision positioning	
Velocity range	Below 8 m/s (26 ft./s) (2 m (6.6 ft.) above ground)
Altitude range	5-500 cm (2.0-200 in.)
Operating environment	Brightly lit (lux > 15) patterned surfaces
Operating range	0-300 cm (0-120 in.)

DJI GO app	
Mobile device system requirements	<ul style="list-style-type: none">iOS version 7.1 or laterAndroid version 4.1.2 or later
Supported mobile devices	<ul style="list-style-type: none">iPhone 6 PlusiPhone 6iPhone 5SiPad Air 2iPad Mini 3iPad AiriPad Mini 2iPad 4Samsung Note 3Samsung S5Sony Z3 EXPERIA <p>NOTE: It is recommended that you use a tablet for the best experience</p>

Documentation and firmware	
Download link	http://tinyurl.com/z8esgtc

Warranty	
Warranty	http://www.dji.com/service#warranty_period

Global trade data	
HS Code	<ul style="list-style-type: none">8802200015 (Inspire 1)9032896085 (Zenmuse XT)
ECCN code	6A003.b.4.b. (Zenmuse XT)

Shipping information	
Packaging type	Cardboard box



FLIR Aerial Home Inspection Kit (30 Hz)

P/N: 75501-0101

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Customer support

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Shipping information

List of contents

- Inspire T600 aircraft
- Zenmuse XT thermal camera with stabilized gimbal
- Zenmuse X3 video camera with stabilized gimbal
- Battery
- Controller
- FLIR Tools+
- iPad Mini 4 (128 GB, Wi-Fi and cellular)
- Monitor hood
- Rugged carry case
- Landing Pad

P/N: 76401-0101

Revision

43539

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2017-06-28 10:52 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Aircraft	
Model	Inspire 1 – T600
Weight (battery included)	2935 g (6.471 lb.)
Hovering accuracy (P mode)	<ul style="list-style-type: none"> Vertical: 0.5 m (1.6 ft.) Horizontal: 2.5 m (8.2 ft.)
Maximum angular velocity	<ul style="list-style-type: none"> Pitch: 300°/s Yaw: 150°/s
Maximum tilt angle	35°
Maximum ascent speed	5 m/s (16 ft./s)
Maximum descent speed	4 m/s (13 ft./s)
Maximum speed	22 m/s (72 ft./s) (ATTI mode, no wind)
Maximum service ceiling above sea level	4500 m (14 700 ft.) (software altitude limit: 120 m (390 ft.) above takeoff point)
Maximum wind speed resistance	10 m/s (32 ft./s)
Maximum flight time	Approximately 18 minutes
Motor model	DJI 3510
Propeller model	DJI 1345T
Indoor hovering	Enabled by default
Operating temperature range	-10 to +40°C (+14 to +104°F)
Diagonal distance	559–581 mm (22.0–22.8 in.)
Dimensions	438 mm × 451 mm × 301 mm (17.2 in. × 17.8 in. × 11.9 in.)

Gimbal (Zenmuse XT)	
Name	Zenmuse XT
Dimensions	103 mm × 74 mm × 102 mm (4.1 in. × 2.9 in. × 4.0 in.)
Weight	270 g (0.60 lb.)
Angular vibration range	±0.03°
Mount	Detachable
Controllable range	<ul style="list-style-type: none"> Tilt: +35° to -90° Pan: ±320° Roll: ±15°
Mechanical range	<ul style="list-style-type: none"> Tilt: +45° to -135° Pan: ±320° Roll: ±45°
Maximum controllable speed	120°/s



FLIR Aerial Home Inspection Kit (9 Hz)

P/N: 76401-0101

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Website

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Customer support

<http://support.flir.com>

Gimbal (Zenmuse X3)	
Model	Zenmuse X3
Output power (with camera)	<ul style="list-style-type: none">Static: 9 WIn motion: 11 W
Operating current	<ul style="list-style-type: none">Station: 750 mAMotion: 900 mA
Angular vibration range	±0.03°
Mounting	Detachable
Controllable range	<ul style="list-style-type: none">Pitch: -90° to +30°Pan: ±320°
Mechanical range	<ul style="list-style-type: none">Pitch: -125° to +45°Pan: ±330°
Max. controllable speed	<ul style="list-style-type: none">Pitch: 120°/sPan: 180°/s

Camera (Zenmuse XT)	
Thermal imager	Uncooled VOx microbolometer
FPA/digital video display formats	336 × 256 pixels
Analog video display formats	<ul style="list-style-type: none">720 × 480 pixels (NTSC)720 × 576 pixels (PAL)
Pixel pitch	17 µm
Spectral band	7.5–13.5 µm
Frame rates	<ul style="list-style-type: none">7.5 Hz (NTSC)8.3 Hz (PAL)
Sensitivity (NETD)	<50 mK at f/1.0
Accuracy	±20°C (±36°F)
Scene range (high gain)	-25 to +100°C (-13 to +212°F)
Scene range (low gain)	-40 to +550°C (-40 to +1022°F)
Spot meter	Temperatures measured in central 4 × 4 pixels
File storage	Micro SD card. 16 GB Class 10 included, up to 32 GB supported.
Data logging	<ul style="list-style-type: none">8-bit AGC + LUT video at camera frame rate packaged in either .MOV or .MP4 wrappers.8-bit AGC + LUT still images in .JPG.14-bit TIFF raw still images with FLIR-specified metadata.

Camera (Zenmuse X3)	
Name	X3
Model	FC350
Total pixels	12.76 Mpixel
Effective pixels	12.4 Mpixel
Image max. size	4000 × 3000
ISO range	<ul style="list-style-type: none">100–3200 (video)100–1600 (photo)
Electronic shutter speed	8 s to 1/8000 s
FOV (field of view)	94°
CMOS	Sony EXMOR 1/2.3"



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Website

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Customer support

<http://support.flir.com>

Camera (Zemuse X3)	
Lens	<ul style="list-style-type: none">• 20 mm (35 mm format equivalent) f/2.8 focus at ∞• 9 elements in 9 groups• Anti-distortion
Still photography modes	<ul style="list-style-type: none">• Single shoot• Burst shooting: 3/5/7 frames• Auto exposure bracketing (AEB): 3/5 bracketed frames at 0.7 EV bias• Time-lapse
Video recording modes	<ul style="list-style-type: none">• UHD (4K): 4096x2160p24/25, 3840x2160p24/25/30• FHD: 1920x1080p24/25/30/48/50/60• HD: 1280x720p24/25/30/48/50/60
Max. bit rate of video storage	60 Mbps
Supported file formats	<ul style="list-style-type: none">• FAT32/exFAT• Photo: JPEG, DNG• Video: MP4/MOV (MPEG-4 AVC/H.264)
Supported SD card types	<ul style="list-style-type: none">• Micro SD• Max. capacity: 64 GB. Class 10 or UHS-1 rating required.
Operating temperature range	0 to +40°C (+32 to +104°F)

Image processing and display controls	
NTSC/PAL (field switchable)	Yes
Image optimization	Yes
Digital detail	Yes

Enhancement	
Polarity control (black hot/white hot)	Yes
Color and monochrome palettes (LUTs)	Yes
Digital zoom	2x, 4x, 8x

Lens model	
Focal length	6.8 mm
f number	f/1.4
FoV	49.1° × 37.4°
iFoV	2.519 mrad
Minimum focus distance	2.3 cm (0.9 in.)
Hyperfocal distance	1.2 m (3.9 ft.)
Hyperfocal depth of field	0.6 m (2.0 ft.)

Environmental	
Operating temperature range	-10 to +40°C (+14 to +104°F)
Non-operating temperature range	-30 to +70°C (-22 to +158°F)
Temperature shock	5°C/min (41°F/min)
Humidity	5-95%

Certifications	
Compliance	http://www.dji.com/euro-compliance



FLIR Aerial Home Inspection Kit (9 Hz)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Remote controller	
Name	C1
Operating frequency	<ul style="list-style-type: none">922.7–927.7 MHz (Japan only)5.725–5.825 GHz2.400–2.483 GHz
Transmitting distance	<ul style="list-style-type: none">Up to 5.0 km (3.1 miles) (unobstructed, free of interferences and FCC compliant) when it is FCC compliantUp to 3.5 km (2.1 miles) (unobstructed, free of interferences) when it is CE compliant
EIRP	<ul style="list-style-type: none">10 dBm @ 900 m13 dBm @ 5.8 G20 dBm @ 2.4 G
Video output port	USB, Mini-HDMI
Power supply	Built-in battery
Charging	DJI charger
Dual-user capability	Host-and-slave connection
Mobile device holder	Tablet or smart phone
Output power	9 W
Operating temperature range	–10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: –20 to +45°C (–4 to 113°F)More than 3 months: 22–28°C (72–82°F)
Charging temperature range	0–40°C (32–104°F)
Battery	6000 mA h LiPo 2S

Charger	
Model	A14-100P1A
Voltage	26.3 V
Rated power	100 W

Battery (standard)	
Name	Intelligent flight battery
Model	TB47
Capacity	4500 mA h
Voltage	22.2 V
Battery type	LiPo 6S high-voltage battery
Energy	99.9 W h
Net weight	570 g
Operating temperature range	–10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: –20 to +45°C (–4 to 113°F)More than 3 months: 22–28°C (72–82°F)
Charging temperature range	0–40°C (32–104°F)
Maximum charging power	180 W
Maximum number of charging cycles	200

Battery (optional)	
Name	Intelligent flight battery
Model	TB48



FLIR Aerial Home Inspection Kit (9 Hz)

P/N: 76401-0101

Revision

43539

Last modified

2017-06-28 10:52 UTC+1

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Battery (optional)	
Capacity	5700 mA h
Voltage	22.8 V
Battery type	LiPo 6S
Energy	129.96 W h
Net weight	670 g
Operating temperature range	-10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: -20 to +45°C (-4 to 113°F)More than 3 months: 22-28°C (72-82°F)
Charging temperature range	0-40°C (32-104°F)
Maximum charging power	180 W
Maximum number of charging cycles	200

Vision positioning	
Velocity range	Below 8 m/s (26 ft./s) (2 m (6.6 ft.) above ground)
Altitude range	5-500 cm (2.0-200 in.)
Operating environment	Brightly lit (lux > 15) patterned surfaces
Operating range	0-300 cm (0-120 in.)

DJI GO app	
Mobile device system requirements	<ul style="list-style-type: none">iOS version 7.1 or laterAndroid version 4.1.2 or later
Supported mobile devices	<ul style="list-style-type: none">iPhone 6 PlusiPhone 6iPhone 5SiPad Air 2iPad Mini 3iPad AiriPad Mini 2iPad 4Samsung Note 3Samsung S5Sony Z3 EXPERIA <p>NOTE: It is recommended that you use a tablet for the best experience</p>

Documentation and firmware	
Download link	http://tinyurl.com/z8esgtc

Warranty	
Warranty	http://www.dji.com/service#warranty_period

Global trade data	
HS Code	<ul style="list-style-type: none">8802200015 (Inspire 1)9032896085 (Zenmuse XT)
ECCN code	6A993.a (Zenmuse XT)

Shipping information	
Packaging type	Cardboard box



FLIR Aerial Home Inspection Kit (9 Hz)

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Shipping information

List of contents

- Inspire T600 aircraft
- Zenmuse XT thermal camera with stabilized gimbal
- Zenmuse X3 video camera with stabilized gimbal
- Battery
- Controller
- FLIR Tools+
- iPad Mini 4 (128 GB, Wi-Fi and cellular)
- Monitor hood
- Rugged carry case
- Landing Pad

P/N: 75501-0103

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Website

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Customer support

<http://support.flir.com>



Aircraft	
Model	Inspire 1 – T600
Weight (battery included)	2935 g (6.471 lb.)
Hovering accuracy (P mode)	<ul style="list-style-type: none"> Vertical: 0.5 m (1.6 ft.) Horizontal: 2.5 m (8.2 ft.)
Maximum angular velocity	<ul style="list-style-type: none"> Pitch: 300°/s Yaw: 150°/s
Maximum tilt angle	35°
Maximum ascent speed	5 m/s (16 ft./s)
Maximum descent speed	4 m/s (13 ft./s)
Maximum speed	22 m/s (72 ft./s) (ATTI mode, no wind)
Maximum service ceiling above sea level	4500 m (14 700 ft.) (software altitude limit: 120 m (390 ft.) above takeoff point)
Maximum wind speed resistance	10 m/s (32 ft./s)
Maximum flight time	Approximately 18 minutes
Motor model	DJI 3510
Propeller model	DJI 1345T
Indoor hovering	Enabled by default
Operating temperature range	-10 to +40°C (+14 to +104°F)
Diagonal distance	559–581 mm (22.0–22.8 in.)
Dimensions	438 mm × 451 mm × 301 mm (17.2 in. × 17.8 in. × 11.9 in.)

Gimbal (Zenmuse XT)	
Name	Zenmuse XT
Dimensions	103 mm × 74 mm × 102 mm (4.1 in. × 2.9 in. × 4.0 in.)
Weight	270 g (0.60 lb.)
Angular vibration range	±0.03°
Mount	Detachable
Controllable range	<ul style="list-style-type: none"> Tilt: +35° to -90° Pan: ±320° Roll: ±15°
Mechanical range	<ul style="list-style-type: none"> Tilt: +45° to -135° Pan: ±320° Roll: ±45°
Maximum controllable speed	120°/s



FLIR Aerial Home Inspection Kit w/out iPad (30 Hz)

P/N: 75501-0103

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Website

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Customer support

<http://support.flir.com>

Gimbal (Zenmuse X3)	
Model	Zenmuse X3
Output power (with camera)	<ul style="list-style-type: none">• Static: 9 W• In motion: 11 W
Operating current	<ul style="list-style-type: none">• Station: 750 mA• Motion: 900 mA
Angular vibration range	±0.03°
Mounting	Detachable
Controllable range	<ul style="list-style-type: none">• Pitch: -90° to +30°• Pan: ±320°
Mechanical range	<ul style="list-style-type: none">• Pitch: -125° to +45°• Pan: ±330°
Max. controllable speed	<ul style="list-style-type: none">• Pitch: 120°/s• Pan: 180°/s

Camera (Zenmuse XT)	
Thermal imager	Uncooled VOx microbolometer
FPA/digital video display formats	336 × 256 pixels
Analog video display formats	<ul style="list-style-type: none">• 720 × 480 pixels (NTSC)• 720 × 576 pixels (PAL)
Pixel pitch	17 μm
Spectral band	7.5–13.5 μm
Frame rates	<ul style="list-style-type: none">• 30/60 Hz (NTSC)• 25/50 Hz (PAL)
Sensitivity (NETD)	<50 mK at f/1.0
Accuracy	±20°C (±36°F)
Scene range (high gain)	-25 to +100°C (-13 to +212°F)
Scene range (low gain)	-40 to +550°C (-40 to +1022°F)
Spot meter	Temperatures measured in central 4 × 4 pixels
File storage	Micro SD card. 16 GB Class 10 included, up to 32 GB supported.
Data logging	<ul style="list-style-type: none">• 8-bit AGC + LUT video at camera frame rate packaged in either .MOV or .MP4 wrappers.• 8-bit AGC + LUT still images in .JPG.• 14-bit TIFF raw still images with FLIR-specified metadata.

Camera (Zenmuse X3)	
Name	X3
Model	FC350
Total pixels	12.76 Mpixel
Effective pixels	12.4 Mpixel
Image max. size	4000 × 3000
ISO range	<ul style="list-style-type: none">• 100–3200 (video)• 100–1600 (photo)
Electronic shutter speed	8 s to 1/8000 s
FOV (field of view)	94°
CMOS	Sony EXMOR 1/2.3"



FLIR Aerial Home Inspection Kit w/out iPad (30 Hz)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Camera (Zemuse X3)	
Lens	<ul style="list-style-type: none">• 20 mm (35 mm format equivalent) f/2.8 focus at ∞• 9 elements in 9 groups• Anti-distortion
Still photography modes	<ul style="list-style-type: none">• Single shoot• Burst shooting: 3/5/7 frames• Auto exposure bracketing (AEB): 3/5 bracketed frames at 0.7 EV bias• Time-lapse
Video recording modes	<ul style="list-style-type: none">• UHD (4K): 4096x2160p24/25, 3840x2160p24/25/30• FHD: 1920x1080p24/25/30/48/50/60• HD: 1280x720p24/25/30/48/50/60
Max. bit rate of video storage	60 Mbps
Supported file formats	<ul style="list-style-type: none">• FAT32/exFAT• Photo: JPEG, DNG• Video: MP4/MOV (MPEG-4 AVC/H.264)
Supported SD card types	<ul style="list-style-type: none">• Micro SD• Max. capacity: 64 GB. Class 10 or UHS-1 rating required.
Operating temperature range	0 to +40°C (+32 to +104°F)

Image processing and display controls	
NTSC/PAL (field switchable)	Yes
Image optimization	Yes
Digital detail	Yes

Enhancement	
Polarity control (black hot/white hot)	Yes
Color and monochrome palettes (LUTs)	Yes
Digital zoom	2x, 4x, 8x

Lens model	
Focal length	6.8 mm
f number	f/1.4
FoV	49.1° × 37.4°
iFoV	2.519 mrad
Minimum focus distance	2.3 cm (0.9 in.)
Hyperfocal distance	1.2 m (3.9 ft.)
Hyperfocal depth of field	0.6 m (2.0 ft.)

Environmental	
Operating temperature range	-10 to +40°C (+14 to +104°F)
Non-operating temperature range	-30 to +70°C (-22 to +158°F)
Temperature shock	5°C/min (41°F/min)
Humidity	5-95%

Certifications	
Compliance	http://www.dji.com/euro-compliance



FLIR Aerial Home Inspection Kit w/out iPad (30 Hz)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Remote controller	
Name	C1
Operating frequency	<ul style="list-style-type: none">922.7–927.7 MHz (Japan only)5.725–5.825 GHz2.400–2.483 GHz
Transmitting distance	<ul style="list-style-type: none">Up to 5.0 km (3.1 miles) (unobstructed, free of interferences and FCC compliant) when it is FCC compliantUp to 3.5 km (2.1 miles) (unobstructed, free of interferences) when it is CE compliant
EIRP	<ul style="list-style-type: none">10 dBm @ 900 m13 dBm @ 5.8 G20 dBm @ 2.4 G
Video output port	USB, Mini-HDMI
Power supply	Built-in battery
Charging	DJI charger
Dual-user capability	Host-and-slave connection
Mobile device holder	Tablet or smart phone
Output power	9 W
Operating temperature range	–10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: –20 to +45°C (–4 to 113°F)More than 3 months: 22–28°C (72–82°F)
Charging temperature range	0–40°C (32–104°F)
Battery	6000 mA h LiPo 2S

Charger	
Model	A14-100P1A
Voltage	26.3 V
Rated power	100 W

Battery (standard)	
Name	Intelligent flight battery
Model	TB47
Capacity	4500 mA h
Voltage	22.2 V
Battery type	LiPo 6S high-voltage battery
Energy	99.9 W h
Net weight	570 g
Operating temperature range	–10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: –20 to +45°C (–4 to 113°F)More than 3 months: 22–28°C (72–82°F)
Charging temperature range	0–40°C (32–104°F)
Maximum charging power	180 W
Maximum number of charging cycles	200

Battery (optional)	
Name	Intelligent flight battery
Model	TB48



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Battery (optional)	
Capacity	5700 mA h
Voltage	22.8 V
Battery type	LiPo 6S
Energy	129.96 W h
Net weight	670 g
Operating temperature range	-10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">• Less than 3 months: -20 to +45°C (-4 to 113°F)• More than 3 months: 22-28°C (72-82°F)
Charging temperature range	0-40°C (32-104°F)
Maximum charging power	180 W
Maximum number of charging cycles	200

Vision positioning	
Velocity range	Below 8 m/s (26 ft./s) (2 m (6.6 ft.) above ground)
Altitude range	5-500 cm (2.0-200 in.)
Operating environment	Brightly lit (lux > 15) patterned surfaces
Operating range	0-300 cm (0-120 in.)

DJI GO app	
Mobile device system requirements	<ul style="list-style-type: none">• iOS version 7.1 or later• Android version 4.1.2 or later
Supported mobile devices	<ul style="list-style-type: none">• iPhone 6 Plus• iPhone 6• iPhone 5S• iPad Air 2• iPad Mini 3• iPad Air• iPad Mini 2• iPad 4• Samsung Note 3• Samsung S5• Sony Z3 EXPERIA <p>NOTE: It is recommended that you use a tablet for the best experience</p>

Documentation and firmware	
Download link	http://tinyurl.com/z8esgtc

Warranty	
Warranty	http://www.dji.com/service#warranty_period

Shipping information	
Packaging type	Cardboard box
List of contents	<ul style="list-style-type: none">• Inspire T600 aircraft• Zenmuse XT thermal camera with stabilized gimbal• Zenmuse X3 video camera with stabilized gimbal• Battery• Controller• FLIR Tools+• Monitor hood• Rugged carry case• Landing Pad

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Aircraft	
Model	Inspire 1 – T600
Weight (battery included)	2935 g (6.471 lb.)
Hovering accuracy (P mode)	<ul style="list-style-type: none"> Vertical: 0.5 m (1.6 ft.) Horizontal: 2.5 m (8.2 ft.)
Maximum angular velocity	<ul style="list-style-type: none"> Pitch: 300°/s Yaw: 150°/s
Maximum tilt angle	35°
Maximum ascent speed	5 m/s (16 ft./s)
Maximum descent speed	4 m/s (13 ft./s)
Maximum speed	22 m/s (72 ft./s) (ATTI mode, no wind)
Maximum service ceiling above sea level	4500 m (14 700 ft.) (software altitude limit: 120 m (390 ft.) above takeoff point)
Maximum wind speed resistance	10 m/s (32 ft./s)
Maximum flight time	Approximately 18 minutes
Motor model	DJI 3510
Propeller model	DJI 1345T
Indoor hovering	Enabled by default
Operating temperature range	-10 to +40°C (+14 to +104°F)
Diagonal distance	559–581 mm (22.0–22.8 in.)
Dimensions	438 mm × 451 mm × 301 mm (17.2 in. × 17.8 in. × 11.9 in.)

Gimbal (Zenmuse XT)	
Name	Zenmuse XT
Dimensions	103 mm × 74 mm × 102 mm (4.1 in. × 2.9 in. × 4.0 in.)
Weight	270 g (0.60 lb.)
Angular vibration range	±0.03°
Mount	Detachable
Controllable range	<ul style="list-style-type: none"> Tilt: +35° to -90° Pan: ±320° Roll: ±15°
Mechanical range	<ul style="list-style-type: none"> Tilt: +45° to -135° Pan: ±320° Roll: ±45°
Maximum controllable speed	120°/s



FLIR Aerial Home Inspection Kit w/out iPad (9 Hz)

P/N: 76401-0103

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Website

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Customer support

<http://support.flir.com>

Gimbal (Zenmuse X3)	
Model	Zenmuse X3
Output power (with camera)	<ul style="list-style-type: none">• Static: 9 W• In motion: 11 W
Operating current	<ul style="list-style-type: none">• Station: 750 mA• Motion: 900 mA
Angular vibration range	±0.03°
Mounting	Detachable
Controllable range	<ul style="list-style-type: none">• Pitch: -90° to +30°• Pan: ±320°
Mechanical range	<ul style="list-style-type: none">• Pitch: -125° to +45°• Pan: ±330°
Max. controllable speed	<ul style="list-style-type: none">• Pitch: 120°/s• Pan: 180°/s

Camera (Zenmuse XT)	
Thermal imager	Uncooled VOx microbolometer
FPA/digital video display formats	336 × 256 pixels
Analog video display formats	<ul style="list-style-type: none">• 720 × 480 pixels (NTSC)• 720 × 576 pixels (PAL)
Pixel pitch	17 μm
Spectral band	7.5–13.5 μm
Frame rates	<ul style="list-style-type: none">• 7.5 Hz (NTSC)• 8.3 Hz (PAL)
Sensitivity (NETD)	<50 mK at f/1.0
Accuracy	±20°C (±36°F)
Scene range (high gain)	-25 to +100°C (-13 to +212°F)
Scene range (low gain)	-40 to +550°C (-40 to +1022°F)
Spot meter	Temperatures measured in central 4 × 4 pixels
File storage	Micro SD card. 16 GB Class 10 included, up to 32 GB supported.
Data logging	<ul style="list-style-type: none">• 8-bit AGC + LUT video at camera frame rate packaged in either .MOV or .MP4 wrappers.• 8-bit AGC + LUT still images in .JPG.• 14-bit TIFF raw still images with FLIR-specified metadata.

Camera (Zenmuse X3)	
Name	X3
Model	FC350
Total pixels	12.76 Mpixel
Effective pixels	12.4 Mpixel
Image max. size	4000 × 3000
ISO range	<ul style="list-style-type: none">• 100–3200 (video)• 100–1600 (photo)
Electronic shutter speed	8 s to 1/8000 s
FOV (field of view)	94°
CMOS	Sony EXMOR 1/2.3"



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Camera (Zemuse X3)	
Lens	<ul style="list-style-type: none">• 20 mm (35 mm format equivalent) f/2.8 focus at ∞• 9 elements in 9 groups• Anti-distortion
Still photography modes	<ul style="list-style-type: none">• Single shoot• Burst shooting: 3/5/7 frames• Auto exposure bracketing (AEB): 3/5 bracketed frames at 0.7 EV bias• Time-lapse
Video recording modes	<ul style="list-style-type: none">• UHD (4K): 4096x2160p24/25, 3840x2160p24/25/30• FHD: 1920x1080p24/25/30/48/50/60• HD: 1280x720p24/25/30/48/50/60
Max. bit rate of video storage	60 Mbps
Supported file formats	<ul style="list-style-type: none">• FAT32/exFAT• Photo: JPEG, DNG• Video: MP4/MOV (MPEG-4 AVC/H.264)
Supported SD card types	<ul style="list-style-type: none">• Micro SD• Max. capacity: 64 GB. Class 10 or UHS-1 rating required.
Operating temperature range	0 to +40°C (+32 to +104°F)

Image processing and display controls	
NTSC/PAL (field switchable)	Yes
Image optimization	Yes
Digital detail	Yes

Enhancement	
Polarity control (black hot/white hot)	Yes
Color and monochrome palettes (LUTs)	Yes
Digital zoom	2x, 4x, 8x

Lens model	
Focal length	6.8 mm
f number	f/1.4
FoV	49.1° × 37.4°
iFoV	2.519 mrad
Minimum focus distance	2.3 cm (0.9 in.)
Hyperfocal distance	1.2 m (3.9 ft.)
Hyperfocal depth of field	0.6 m (2.0 ft.)

Environmental	
Operating temperature range	-10 to +40°C (+14 to +104°F)
Non-operating temperature range	-30 to +70°C (-22 to +158°F)
Temperature shock	5°C/min (41°F/min)
Humidity	5-95%

Certifications	
Compliance	http://www.dji.com/euro-compliance



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Remote controller	
Name	C1
Operating frequency	<ul style="list-style-type: none">922.7–927.7 MHz (Japan only)5.725–5.825 GHz2.400–2.483 GHz
Transmitting distance	<ul style="list-style-type: none">Up to 5.0 km (3.1 miles) (unobstructed, free of interferences and FCC compliant) when it is FCC compliantUp to 3.5 km (2.1 miles) (unobstructed, free of interferences) when it is CE compliant
EIRP	<ul style="list-style-type: none">10 dBm @ 900 m13 dBm @ 5.8 G20 dBm @ 2.4 G
Video output port	USB, Mini-HDMI
Power supply	Built-in battery
Charging	DJI charger
Dual-user capability	Host-and-slave connection
Mobile device holder	Tablet or smart phone
Output power	9 W
Operating temperature range	-10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: -20 to +45°C (-4 to 113°F)More than 3 months: 22–28°C (72–82°F)
Charging temperature range	0–40°C (32–104°F)
Battery	6000 mA h LiPo 2S

Charger	
Model	A14-100P1A
Voltage	26.3 V
Rated power	100 W

Battery (standard)	
Name	Intelligent flight battery
Model	TB47
Capacity	4500 mA h
Voltage	22.2 V
Battery type	LiPo 6S high-voltage battery
Energy	99.9 W h
Net weight	570 g
Operating temperature range	-10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: -20 to +45°C (-4 to 113°F)More than 3 months: 22–28°C (72–82°F)
Charging temperature range	0–40°C (32–104°F)
Maximum charging power	180 W
Maximum number of charging cycles	200

Battery (optional)	
Name	Intelligent flight battery
Model	TB48



FLIR Aerial Home Inspection Kit w/out iPad (9 Hz)

P/N: 76401-0103

Revision

38391

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2016-11-18 09:01 UTC+1

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Battery (optional)	
Capacity	5700 mA h
Voltage	22.8 V
Battery type	LiPo 6S
Energy	129.96 W h
Net weight	670 g
Operating temperature range	-10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">• Less than 3 months: -20 to +45°C (-4 to 113°F)• More than 3 months: 22-28°C (72-82°F)
Charging temperature range	0-40°C (32-104°F)
Maximum charging power	180 W
Maximum number of charging cycles	200

Vision positioning	
Velocity range	Below 8 m/s (26 ft./s) (2 m (6.6 ft.) above ground)
Altitude range	5-500 cm (2.0-200 in.)
Operating environment	Brightly lit (lux > 15) patterned surfaces
Operating range	0-300 cm (0-120 in.)

DJI GO app	
Mobile device system requirements	<ul style="list-style-type: none">• iOS version 7.1 or later• Android version 4.1.2 or later
Supported mobile devices	<ul style="list-style-type: none">• iPhone 6 Plus• iPhone 6• iPhone 5S• iPad Air 2• iPad Mini 3• iPad Air• iPad Mini 2• iPad 4• Samsung Note 3• Samsung S5• Sony Z3 EXPERIA <p>NOTE: It is recommended that you use a tablet for the best experience</p>

Documentation and firmware	
Download link	http://tinyurl.com/z8esgtc

Warranty	
Warranty	http://www.dji.com/service#warranty_period

Shipping information	
Packaging type	Cardboard box
List of contents	<ul style="list-style-type: none">• Inspire T600 aircraft• Zenmuse XT thermal camera with stabilized gimbal• Zenmuse X3 video camera with stabilized gimbal• Battery• Controller• FLIR Tools+• Monitor hood• Rugged carry case• Landing Pad

P/N: 76005-0505

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Website

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Customer support

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Aircraft	
Model	Inspire 1 – T600
Weight (battery included)	2935 g (6.471 lb.)
Hovering accuracy (P mode)	<ul style="list-style-type: none"> Vertical: 0.5 m (1.6 ft.) Horizontal: 2.5 m (8.2 ft.)
Maximum angular velocity	<ul style="list-style-type: none"> Pitch: 300°/s Yaw: 150°/s
Maximum tilt angle	35°
Maximum ascent speed	5 m/s (16 ft./s)
Maximum descent speed	4 m/s (13 ft./s)
Maximum speed	22 m/s (72 ft./s) (ATTI mode, no wind)
Maximum service ceiling above sea level	4500 m (14 700 ft.)(software altitude limit: 120 m (390 ft.) above takeoff point)
Maximum wind speed resistance	10 m/s (32 ft./s)
Maximum flight time	Approximately 18 minutes
Motor model	DJI 3510
Propeller model	DJI 1345T
Indoor hovering	Enabled by default
Operating temperature range	-10 to +40°C (+14 to +104°F)
Diagonal distance	559–581 mm (22.0–22.8 in.)
Dimensions	438 mm × 451 mm × 301 mm

Gimbal (Zenmuse XT)	
Name	Zenmuse XT
Dimensions	103 mm × 74 mm × 102 mm (17.2 in. × 17.8 in. × 11.9 in.)
Weight	270 g (0.60 lb.)
Angular vibration range	±0.03°
Mount	Detachable
Controllable range	<ul style="list-style-type: none"> Tilt: +35° to -90° Pan: ±320° Roll: ±15°
Mechanical range	<ul style="list-style-type: none"> Tilt: +45° to -135° Pan: ±320° Roll: ±45°
Maximum controllable speed	120°/s



FLIR Aerial Utility Kit (30 Hz)

P/N: 76005-0505

Revision

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Gimbal (Zenmuse X3)	
Model	Zenmuse X3
Output power (with camera)	<ul style="list-style-type: none">• Static: 9 W• In motion: 11 W
Operating current	<ul style="list-style-type: none">• Station: 750 mA• Motion: 900 mA
Angular vibration range	±0.03°
Mounting	Detachable
Controllable range	<ul style="list-style-type: none">• Pitch: -90° to +30°• Pan: ±320°
Mechanical range	<ul style="list-style-type: none">• Pitch: -125° to +45°• Pan: ±330°
Max. controllable speed	<ul style="list-style-type: none">• Pitch: 120°/s• Pan: 180°/s

Camera (Zenmuse XT)	
Thermal imager	Uncooled VOx microbolometer
FPA/digital video display formats	640 × 512 pixels
Analog video display formats	<ul style="list-style-type: none">• 720 × 480 pixels (NTSC)• 720 × 576 pixels (PAL)
Pixel pitch	17 µm
Spectral band	7.5–13.5 µm
Frame rates	<ul style="list-style-type: none">• 30 Hz (NTSC)• 25 Hz (PAL)
Sensitivity (NEΔT)	<50 mK at f/1.0
Accuracy	±20°C (±36°F)
Scene range (high gain)	-25 to +135°C (-13 to +275°F)
Scene range (low gain)	-40 to 550°C (-40 to +1022°F)
Spot meter	Temperatures measured in central 4 × 4 pixels
File storage	Micro SD card. 16 GB Class 10 included, up to 32 GB supported.
Data logging	<ul style="list-style-type: none">• 8-bit AGC + LUT video at camera frame rate packaged in either .MOV or .MP4 wrappers.• 8-bit AGC + LUT still images in .JPG.• 14-bit TIFF raw still images with FLIR-specified metadata.

Camera (Zenmuse X3)	
Name	X3
Model	FC350
Total pixels	12.76 Mpixel
Effective pixels	12.4 Mpixel
Image max. size	4000 × 3000
ISO range	<ul style="list-style-type: none">• 100–3200 (video)• 100–1600 (photo)
Electronic shutter speed	8 s to 1/8000 s
FOV (field of view)	94°
CMOS	Sony EXMOR 1/2.3"



FLIR Aerial Utility Kit (30 Hz)

P/N: 76005-0505

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Camera (Zemuse X3)	
Lens	<ul style="list-style-type: none">• 20 mm (35 mm format equivalent) f/2.8 focus at ∞• 9 elements in 9 groups• Anti-distortion
Still photography modes	<ul style="list-style-type: none">• Single shoot• Burst shooting: 3/5/7 frames• Auto exposure bracketing (AEB): 3/5 bracketed frames at 0.7 EV bias• Time-lapse
Video recording modes	<ul style="list-style-type: none">• UHD (4K): 4096x2160p24/25, 3840x2160p24/25/30• FHD: 1920x1080p24/25/30/48/50/60• HD: 1280x720p24/25/30/48/50/60
Max. bit rate of video storage	60 Mbps
Supported file formats	<ul style="list-style-type: none">• FAT32/exFAT• Photo: JPEG, DNG• Video: MP4/MOV (MPEG-4 AVC/H.264)
Supported SD card types	<ul style="list-style-type: none">• Micro SD• Max. capacity: 64 GB. Class 10 or UHS-1 rating required.
Operating temperature range	0 to +40°C (+32 to +104°F)

Image processing and display controls	
NTSC/PAL (field switchable)	Yes
Image optimization	Yes
Digital detail	Yes

Enhancement	
Polarity control (black hot/white hot)	Yes
Color and monochrome palettes (LUTs)	Yes
Digital zoom	2x, 4x

Lens model	
Focal length	19 mm
f number	f/1.25
FoV	32° × 26°
iFoV	0.895 mrad
Minimum focus distance	15.3 cm (6.0 in.)
Hyperfocal distance	9.5 m (31.1 ft.)
Hyperfocal depth of field	4.8 m (15.8 ft.)

Environmental	
Operating temperature range	-10 to +40°C (+14 to +104°F)
Non-operating temperature range	-30 to +70°C (-22 to +158°F)
Temperature shock	5°C/min (41°F/min)
Humidity	5-95%

Certifications	
Compliance	http://www.dji.com/euro-compliance



FLIR Aerial Utility Kit (30 Hz)

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Remote controller	
Name	C1
Operating frequency	<ul style="list-style-type: none">922.7–927.7 MHz (Japan only)5.725–5.825 GHz2.400–2.483 GHz
Transmitting distance	<ul style="list-style-type: none">Up to 5.0 km (3.1 miles) (unobstructed, free of interferences and FCC compliant) when it is FCC compliantUp to 3.5 km (2.1 miles) (unobstructed, free of interferences) when it is CE compliant
EIRP	<ul style="list-style-type: none">10 dBm @ 900 m13 dBm @ 5.8 G20 dBm @ 2.4 G
Video output port	USB, Mini-HDMI
Power supply	Built-in battery
Charging	DJI charger
Dual-user capability	Host-and-slave connection
Mobile device holder	Tablet or smart phone
Output power	9 W
Operating temperature range	–10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: –20 to +45°C (–4 to 113°F)More than 3 months: 22–28°C (72–82°F)
Charging temperature range	0–40°C (32–104°F)
Battery	6000 mA h LiPo 2S

Charger	
Model	A14-100P1A
Voltage	26.3 V
Rated power	100 W

Battery (standard)	
Name	Intelligent flight battery
Model	TB47
Capacity	4500 mA h
Voltage	22.2 V
Battery type	LiPo 6S high-voltage battery
Energy	99.9 W h
Net weight	570 g
Operating temperature range	–10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: –20 to +45°C (–4 to 113°F)More than 3 months: 22–28°C (72–82°F)
Charging temperature range	0–40°C (32–104°F)
Maximum charging power	180 W
Maximum number of charging cycles	200

Battery (optional)	
Name	Intelligent flight battery
Model	TB48



FLIR Aerial Utility Kit (30 Hz)

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Battery (optional)	
Capacity	5700 mA h
Voltage	22.8 V
Battery type	LiPo 6S
Energy	129.96 W h
Net weight	670 g
Operating temperature range	-10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: -20 to +45°C (-4 to 113°F)More than 3 months: 22-28°C (72-82°F)
Charging temperature range	0-40°C (32-104°F)
Maximum charging power	180 W
Maximum number of charging cycles	200

Vision positioning	
Velocity range	Below 8 m/s (26 ft./s) (2 m (6.6 ft.) above ground)
Altitude range	5-500 cm (2.0-200 in.)
Operating environment	Brightly lit (lux > 15) patterned surfaces
Operating range	0-300 cm (0-120 in.)

DJI GO app	
Mobile device system requirements	<ul style="list-style-type: none">iOS version 7.1 or laterAndroid version 4.1.2 or later
Supported mobile devices	<ul style="list-style-type: none">iPhone 6 PlusiPhone 6iPhone 5SiPad Air 2iPad Mini 3iPad AiriPad Mini 2iPad 4Samsung Note 3Samsung S5Sony Z3 EXPERIA <p>NOTE: It is recommended that you use a tablet for the best experience</p>

Documentation and firmware	
Download link	http://tinyurl.com/z8esgtc

Warranty	
Warranty	http://www.dji.com/service#warranty_period

Global trade data	
HS Code	<ul style="list-style-type: none">8802200015 (Inspire 1)9032896085 (Zenmuse XT)
ECCN code	6A003.b.4.b. (Zenmuse XT)

Shipping information	
Packaging type	Cardboard box



FLIR Aerial Utility Kit (30 Hz)

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Customer support

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Shipping information

List of contents

- Inspire T600 aircraft
- Zenmuse XT thermal camera with stabilized gimbal
- Zenmuse X3 video camera with stabilized gimbal
- Controller (x2, one for the operator and one for the pilot)
- Battery (x2)
- FLIR Tools+
- iPad Mini 4 (128 GB, Wi-Fi and cellular) (x2)
- Monitor hoods (x2)
- Rugged carry case (x2)
- Landing Pad

P/N: 76605-0505

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Aircraft	
Model	Inspire 1 – T600
Weight (battery included)	2935 g (6.471 lb.)
Hovering accuracy (P mode)	<ul style="list-style-type: none"> Vertical: 0.5 m (1.6 ft.) Horizontal: 2.5 m (8.2 ft.)
Maximum angular velocity	<ul style="list-style-type: none"> Pitch: 300°/s Yaw: 150°/s
Maximum tilt angle	35°
Maximum ascent speed	5 m/s (16 ft./s)
Maximum descent speed	4 m/s (13 ft./s)
Maximum speed	22 m/s (72 ft./s) (ATTI mode, no wind)
Maximum service ceiling above sea level	4500 m (14 700 ft.)(software altitude limit: 120 m (390 ft.) above takeoff point)
Maximum wind speed resistance	10 m/s (32 ft./s)
Maximum flight time	Approximately 18 minutes
Motor model	DJI 3510
Propeller model	DJI 1345T
Indoor hovering	Enabled by default
Operating temperature range	-10 to +40°C (+14 to +104°F)
Diagonal distance	559–581 mm (22.0–22.8 in.)
Dimensions	438 mm × 451 mm × 301 mm

Gimbal (Zenmuse XT)	
Name	Zenmuse XT
Dimensions	103 mm × 74 mm × 102 mm (17.2 in. × 17.8 in. × 11.9 in.)
Weight	270 g (0.60 lb.)
Angular vibration range	±0.03°
Mount	Detachable
Controllable range	<ul style="list-style-type: none"> Tilt: +35° to -90° Pan: ±320° Roll: ±15°
Mechanical range	<ul style="list-style-type: none"> Tilt: +45° to -135° Pan: ±320° Roll: ±45°
Maximum controllable speed	120°/s



FLIR Aerial Utility Kit (9 Hz)

P/N: 76605-0505

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Website

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Customer support

<http://support.flir.com>

Gimbal (Zenmuse X3)	
Model	Zenmuse X3
Output power (with camera)	<ul style="list-style-type: none"> Static: 9 W In motion: 11 W
Operating current	<ul style="list-style-type: none"> Station: 750 mA Motion: 900 mA
Angular vibration range	±0.03°
Mounting	Detachable
Controllable range	<ul style="list-style-type: none"> Pitch: -90° to +30° Pan: ±320°
Mechanical range	<ul style="list-style-type: none"> Pitch: -125° to +45° Pan: ±330°
Max. controllable speed	<ul style="list-style-type: none"> Pitch: 120°/s Pan: 180°/s

Camera (Zenmuse XT)	
Thermal imager	Uncooled VOx microbolometer
FPA/digital video display formats	640 × 512 pixels
Analog video display formats	<ul style="list-style-type: none"> 720 × 480 pixels (NTSC) 720 × 576 pixels (PAL)
Pixel pitch	17 μm
Spectral band	7.5–13.5 μm
Frame rates	<ul style="list-style-type: none"> 7.5 Hz (NTSC) 8.3 Hz (PAL)
Sensitivity (NEΔT)	<50 mK at f/1.0
Accuracy	±20°C (±36°F)
Scene range (high gain)	-25 to +135°C (-13 to +275°F)
Scene range (low gain)	-40 to 550°C (-40 to +1022°F)
Spot meter	Temperatures measured in central 4 × 4 pixels
File storage	Micro SD card. 16 GB Class 10 included, up to 32 GB supported.
Data logging	<ul style="list-style-type: none"> 8-bit AGC + LUT video at camera frame rate packaged in either .MOV or .MP4 wrappers. 8-bit AGC + LUT still images in .JPG. 14-bit TIFF raw still images with FLIR-specified metadata.

Camera (Zenmuse X3)	
Name	X3
Model	FC350
Total pixels	12.76 Mpixel
Effective pixels	12.4 Mpixel
Image max. size	4000 × 3000
ISO range	<ul style="list-style-type: none"> 100–3200 (video) 100–1600 (photo)
Electronic shutter speed	8 s to 1/8000 s
FOV (field of view)	94°
CMOS	Sony EXMOR 1/2.3"



FLIR Aerial Utility Kit (9 Hz)

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Camera (Zemuse X3)	
Lens	<ul style="list-style-type: none">• 20 mm (35 mm format equivalent) f/2.8 focus at ∞• 9 elements in 9 groups• Anti-distortion
Still photography modes	<ul style="list-style-type: none">• Single shoot• Burst shooting: 3/5/7 frames• Auto exposure bracketing (AEB): 3/5 bracketed frames at 0.7 EV bias• Time-lapse
Video recording modes	<ul style="list-style-type: none">• UHD (4K): 4096x2160p24/25, 3840x2160p24/25/30• FHD: 1920x1080p24/25/30/48/50/60• HD: 1280x720p24/25/30/48/50/60
Max. bit rate of video storage	60 Mbps
Supported file formats	<ul style="list-style-type: none">• FAT32/exFAT• Photo: JPEG, DNG• Video: MP4/MOV (MPEG-4 AVC/H.264)
Supported SD card types	<ul style="list-style-type: none">• Micro SD• Max. capacity: 64 GB. Class 10 or UHS-1 rating required.
Operating temperature range	0 to +40°C (+32 to +104°F)

Image processing and display controls	
NTSC/PAL (field switchable)	Yes
Image optimization	Yes
Digital detail	Yes

Enhancement	
Polarity control (black hot/white hot)	Yes
Color and monochrome palettes (LUTs)	Yes
Digital zoom	2x, 4x

Lens model	
Focal length	19 mm
f number	f/1.25
FoV	32° × 26°
iFoV	0.895 mrad
Minimum focus distance	15.3 cm (6.0 in.)
Hyperfocal distance	9.5 m (31.1 ft.)
Hyperfocal depth of field	4.8 m (15.8 ft.)

Environmental	
Operating temperature range	-10 to +40°C (+14 to +104°F)
Non-operating temperature range	-30 to +70°C (-22 to +158°F)
Temperature shock	5°C/min (41°F/min)
Humidity	5-95%

Certifications	
Compliance	http://www.dji.com/euro-compliance



FLIR Aerial Utility Kit (9 Hz)

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Remote controller	
Name	C1
Operating frequency	<ul style="list-style-type: none">922.7–927.7 MHz (Japan only)5.725–5.825 GHz2.400–2.483 GHz
Transmitting distance	<ul style="list-style-type: none">Up to 5.0 km (3.1 miles) (unobstructed, free of interferences and FCC compliant) when it is FCC compliantUp to 3.5 km (2.1 miles) (unobstructed, free of interferences) when it is CE compliant
EIRP	<ul style="list-style-type: none">10 dBm @ 900 m13 dBm @ 5.8 G20 dBm @ 2.4 G
Video output port	USB, Mini-HDMI
Power supply	Built-in battery
Charging	DJI charger
Dual-user capability	Host-and-slave connection
Mobile device holder	Tablet or smart phone
Output power	9 W
Operating temperature range	–10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: –20 to +45°C (–4 to 113°F)More than 3 months: 22–28°C (72–82°F)
Charging temperature range	0–40°C (32–104°F)
Battery	6000 mA h LiPo 2S

Charger	
Model	A14-100P1A
Voltage	26.3 V
Rated power	100 W

Battery (standard)	
Name	Intelligent flight battery
Model	TB47
Capacity	4500 mA h
Voltage	22.2 V
Battery type	LiPo 6S high-voltage battery
Energy	99.9 W h
Net weight	570 g
Operating temperature range	–10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: –20 to +45°C (–4 to 113°F)More than 3 months: 22–28°C (72–82°F)
Charging temperature range	0–40°C (32–104°F)
Maximum charging power	180 W
Maximum number of charging cycles	200

Battery (optional)	
Name	Intelligent flight battery
Model	TB48



FLIR Aerial Utility Kit (9 Hz)

P/N: 76605-0505

Revision

43539

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2017-06-28 10:52 UTC+1

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Battery (optional)	
Capacity	5700 mA h
Voltage	22.8 V
Battery type	LiPo 6S
Energy	129.96 W h
Net weight	670 g
Operating temperature range	-10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">• Less than 3 months: -20 to +45°C (-4 to 113°F)• More than 3 months: 22-28°C (72-82°F)
Charging temperature range	0-40°C (32-104°F)
Maximum charging power	180 W
Maximum number of charging cycles	200

Vision positioning	
Velocity range	Below 8 m/s (26 ft./s) (2 m (6.6 ft.) above ground)
Altitude range	5-500 cm (2.0-200 in.)
Operating environment	Brightly lit (lux > 15) patterned surfaces
Operating range	0-300 cm (0-120 in.)

DJI GO app	
Mobile device system requirements	<ul style="list-style-type: none">• iOS version 7.1 or later• Android version 4.1.2 or later
Supported mobile devices	<ul style="list-style-type: none">• iPhone 6 Plus• iPhone 6• iPhone 5S• iPad Air 2• iPad Mini 3• iPad Air• iPad Mini 2• iPad 4• Samsung Note 3• Samsung S5• Sony Z3 EXPERIA <p>NOTE: It is recommended that you use a tablet for the best experience</p>

Documentation and firmware	
Download link	http://tinyurl.com/z8esgtc

Warranty	
Warranty	http://www.dji.com/service#warranty_period

Global trade data	
HS Code	<ul style="list-style-type: none">• 8802200015 (Inspire 1)• 9032896085 (Zenmuse XT)
ECCN code	6A993.a (Zenmuse XT)

Shipping information	
Packaging type	Cardboard box



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Shipping information

List of contents

- Inspire T600 aircraft
- Zenmuse XT thermal camera with stabilized gimbal
- Zenmuse X3 video camera with stabilized gimbal
- Controller (x2, one for the operator and one for the pilot)
- Battery (x2)
- FLIR Tools+
- iPad Mini 4 (128 GB, Wi-Fi and cellular) (x2)
- Monitor hoods (x2)
- Rugged carry case (x2)
- Landing Pad

P/N: 76005-0507

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Website

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Customer support

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Aircraft	
Model	Inspire 1 – T600
Weight (battery included)	2935 g (6.471 lb.)
Hovering accuracy (P mode)	<ul style="list-style-type: none"> Vertical: 0.5 m (1.6 ft.) Horizontal: 2.5 m (8.2 ft.)
Maximum angular velocity	<ul style="list-style-type: none"> Pitch: 300°/s Yaw: 150°/s
Maximum tilt angle	35°
Maximum ascent speed	5 m/s (16 ft./s)
Maximum descent speed	4 m/s (13 ft./s)
Maximum speed	22 m/s (72 ft./s) (ATTI mode, no wind)
Maximum service ceiling above sea level	4500 m (14 700 ft.)(software altitude limit: 120 m (390 ft.) above takeoff point)
Maximum wind speed resistance	10 m/s (32 ft./s)
Maximum flight time	Approximately 18 minutes
Motor model	DJI 3510
Propeller model	DJI 1345T
Indoor hovering	Enabled by default
Operating temperature range	-10 to +40°C (+14 to +104°F)
Diagonal distance	559–581 mm (22.0–22.8 in.)
Dimensions	438 mm × 451 mm × 301 mm

Gimbal (Zenmuse XT)	
Name	Zenmuse XT
Dimensions	103 mm × 74 mm × 102 mm (17.2 in. × 17.8 in. × 11.9 in.)
Weight	270 g (0.60 lb.)
Angular vibration range	±0.03°
Mount	Detachable
Controllable range	<ul style="list-style-type: none"> Tilt: +35° to -90° Pan: ±320° Roll: ±15°
Mechanical range	<ul style="list-style-type: none"> Tilt: +45° to -135° Pan: ±320° Roll: ±45°
Maximum controllable speed	120°/s



FLIR Aerial Utility Kit w/out iPad (30 Hz)

P/N: 76005-0507

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Website

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Customer support

<http://support.flir.com>

Gimbal (Zenmuse X3)	
Model	Zenmuse X3
Output power (with camera)	<ul style="list-style-type: none">• Static: 9 W• In motion: 11 W
Operating current	<ul style="list-style-type: none">• Station: 750 mA• Motion: 900 mA
Angular vibration range	±0.03°
Mounting	Detachable
Controllable range	<ul style="list-style-type: none">• Pitch: -90° to +30°• Pan: ±320°
Mechanical range	<ul style="list-style-type: none">• Pitch: -125° to +45°• Pan: ±330°
Max. controllable speed	<ul style="list-style-type: none">• Pitch: 120°/s• Pan: 180°/s

Camera (Zenmuse XT)	
Thermal imager	Uncooled VOx microbolometer
FPA/digital video display formats	640 × 512 pixels
Analog video display formats	<ul style="list-style-type: none">• 720 × 480 pixels (NTSC)• 720 × 576 pixels (PAL)
Pixel pitch	17 μm
Spectral band	7.5–13.5 μm
Frame rates	<ul style="list-style-type: none">• 30 Hz (NTSC)• 25 Hz (PAL)
Sensitivity (NEΔT)	<50 mK at f/1.0
Accuracy	±20°C (±36°F)
Scene range (high gain)	-25 to +135°C (-13 to +275°F)
Scene range (low gain)	-40 to 550°C (-40 to +1022°F)
Spot meter	Temperatures measured in central 4 × 4 pixels
File storage	Micro SD card. 16 GB Class 10 included, up to 32 GB supported.
Data logging	<ul style="list-style-type: none">• 8-bit AGC + LUT video at camera frame rate packaged in either .MOV or .MP4 wrappers.• 8-bit AGC + LUT still images in .JPG.• 14-bit TIFF raw still images with FLIR-specified metadata.

Camera (Zenmuse X3)	
Name	X3
Model	FC350
Total pixels	12.76 Mpixel
Effective pixels	12.4 Mpixel
Image max. size	4000 × 3000
ISO range	<ul style="list-style-type: none">• 100–3200 (video)• 100–1600 (photo)
Electronic shutter speed	8 s to 1/8000 s
FOV (field of view)	94°
CMOS	Sony EXMOR 1/2.3"



FLIR Aerial Utility Kit w/out iPad (30 Hz)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Camera (Zenmuse X3)	
Lens	<ul style="list-style-type: none">• 20 mm (35 mm format equivalent) f/2.8 focus at ∞• 9 elements in 9 groups• Anti-distortion
Still photography modes	<ul style="list-style-type: none">• Single shoot• Burst shooting: 3/5/7 frames• Auto exposure bracketing (AEB): 3/5 bracketed frames at 0.7 EV bias• Time-lapse
Video recording modes	<ul style="list-style-type: none">• UHD (4K): 4096x2160p24/25, 3840x2160p24/25/30• FHD: 1920x1080p24/25/30/48/50/60• HD: 1280x720p24/25/30/48/50/60
Max. bit rate of video storage	60 Mbps
Supported file formats	<ul style="list-style-type: none">• FAT32/exFAT• Photo: JPEG, DNG• Video: MP4/MOV (MPEG-4 AVC/H.264)
Supported SD card types	<ul style="list-style-type: none">• Micro SD• Max. capacity: 64 GB. Class 10 or UHS-1 rating required.
Operating temperature range	0 to +40°C (+32 to +104°F)

Image processing and display controls	
NTSC/PAL (field switchable)	Yes
Image optimization	Yes
Digital detail	Yes

Enhancement	
Polarity control (black hot/white hot)	Yes
Color and monochrome palettes (LUTs)	Yes
Digital zoom	2x, 4x

Lens model	
Focal length	19 mm
f number	f/1.25
FoV	32° × 26°
iFoV	0.895 mrad
Minimum focus distance	15.3 cm (6.0 in.)
Hyperfocal distance	9.5 m (31.1 ft.)
Hyperfocal depth of field	4.8 m (15.8 ft.)

Environmental	
Operating temperature range	-10 to +40°C (+14 to +104°F)
Non-operating temperature range	-30 to +70°C (-22 to +158°F)
Temperature shock	5°C/min (41°F/min)
Humidity	5-95%

Certifications	
Compliance	http://www.dji.com/euro-compliance



FLIR Aerial Utility Kit w/out iPad (30 Hz)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Remote controller	
Name	C1
Operating frequency	<ul style="list-style-type: none">922.7–927.7 MHz (Japan only)5.725–5.825 GHz2.400–2.483 GHz
Transmitting distance	<ul style="list-style-type: none">Up to 5.0 km (3.1 miles) (unobstructed, free of interferences and FCC compliant) when it is FCC compliantUp to 3.5 km (2.1 miles) (unobstructed, free of interferences) when it is CE compliant
EIRP	<ul style="list-style-type: none">10 dBm @ 900 m13 dBm @ 5.8 G20 dBm @ 2.4 G
Video output port	USB, Mini-HDMI
Power supply	Built-in battery
Charging	DJI charger
Dual-user capability	Host-and-slave connection
Mobile device holder	Tablet or smart phone
Output power	9 W
Operating temperature range	-10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: -20 to +45°C (-4 to 113°F)More than 3 months: 22–28°C (72–82°F)
Charging temperature range	0–40°C (32–104°F)
Battery	6000 mA h LiPo 2S

Charger	
Model	A14-100P1A
Voltage	26.3 V
Rated power	100 W

Battery (standard)	
Name	Intelligent flight battery
Model	TB47
Capacity	4500 mA h
Voltage	22.2 V
Battery type	LiPo 6S high-voltage battery
Energy	99.9 W h
Net weight	570 g
Operating temperature range	-10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: -20 to +45°C (-4 to 113°F)More than 3 months: 22–28°C (72–82°F)
Charging temperature range	0–40°C (32–104°F)
Maximum charging power	180 W
Maximum number of charging cycles	200

Battery (optional)	
Name	Intelligent flight battery
Model	TB48



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Website

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Customer support

<http://support.flir.com>

Battery (optional)	
Capacity	5700 mA h
Voltage	22.8 V
Battery type	LiPo 6S
Energy	129.96 W h
Net weight	670 g
Operating temperature range	-10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">• Less than 3 months: -20 to +45°C (-4 to 113°F)• More than 3 months: 22-28°C (72-82°F)
Charging temperature range	0-40°C (32-104°F)
Maximum charging power	180 W
Maximum number of charging cycles	200

Vision positioning	
Velocity range	Below 8 m/s (26 ft./s) (2 m (6.6 ft.) above ground)
Altitude range	5-500 cm (2.0-200 in.)
Operating environment	Brightly lit (lux > 15) patterned surfaces
Operating range	0-300 cm (0-120 in.)

DJI GO app	
Mobile device system requirements	<ul style="list-style-type: none">• iOS version 7.1 or later• Android version 4.1.2 or later
Supported mobile devices	<ul style="list-style-type: none">• iPhone 6 Plus• iPhone 6• iPhone 5S• iPad Air 2• iPad Mini 3• iPad Air• iPad Mini 2• iPad 4• Samsung Note 3• Samsung S5• Sony Z3 EXPERIA <p>NOTE: It is recommended that you use a tablet for the best experience</p>

Documentation and firmware	
Download link	http://tinyurl.com/z8esgtc

Warranty	
Warranty	http://www.dji.com/service#warranty_period

Shipping information	
Packaging type	Cardboard box
List of contents	<ul style="list-style-type: none">• Inspire T600 aircraft• Zenmuse XT thermal camera with stabilized gimbal• Zenmuse X3 video camera with stabilized gimbal• Controller (x2, one for the operator and one for the pilot)• Battery (x2)• FLIR Tools+• Monitor hoods (x2)• Rugged carry case (x2)• Landing Pad

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Website

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Customer support

<http://support.flir.com>



Aircraft	
Model	Inspire 1 – T600
Weight (battery included)	2935 g (6.471 lb.)
Hovering accuracy (P mode)	<ul style="list-style-type: none"> Vertical: 0.5 m (1.6 ft.) Horizontal: 2.5 m (8.2 ft.)
Maximum angular velocity	<ul style="list-style-type: none"> Pitch: 300°/s Yaw: 150°/s
Maximum tilt angle	35°
Maximum ascent speed	5 m/s (16 ft./s)
Maximum descent speed	4 m/s (13 ft./s)
Maximum speed	22 m/s (72 ft./s) (ATTI mode, no wind)
Maximum service ceiling above sea level	4500 m (14 700 ft.)(software altitude limit: 120 m (390 ft.) above takeoff point)
Maximum wind speed resistance	10 m/s (32 ft./s)
Maximum flight time	Approximately 18 minutes
Motor model	DJI 3510
Propeller model	DJI 1345T
Indoor hovering	Enabled by default
Operating temperature range	-10 to +40°C (+14 to +104°F)
Diagonal distance	559–581 mm (22.0–22.8 in.)
Dimensions	438 mm × 451 mm × 301 mm

Gimbal (Zenmuse XT)	
Name	Zenmuse XT
Dimensions	103 mm × 74 mm × 102 mm (17.2 in. × 17.8 in. × 11.9 in.)
Weight	270 g (0.60 lb.)
Angular vibration range	±0.03°
Mount	Detachable
Controllable range	<ul style="list-style-type: none"> Tilt: +35° to -90° Pan: ±320° Roll: ±15°
Mechanical range	<ul style="list-style-type: none"> Tilt: +45° to -135° Pan: ±320° Roll: ±45°
Maximum controllable speed	120°/s



FLIR Aerial Utility Kit w/out iPad (9 Hz)

P/N: 76605-0507

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Website

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Customer support

<http://support.flir.com>

Gimbal (Zenmuse X3)	
Model	Zenmuse X3
Output power (with camera)	<ul style="list-style-type: none"> Static: 9 W In motion: 11 W
Operating current	<ul style="list-style-type: none"> Station: 750 mA Motion: 900 mA
Angular vibration range	±0.03°
Mounting	Detachable
Controllable range	<ul style="list-style-type: none"> Pitch: -90° to +30° Pan: ±320°
Mechanical range	<ul style="list-style-type: none"> Pitch: -125° to +45° Pan: ±330°
Max. controllable speed	<ul style="list-style-type: none"> Pitch: 120°/s Pan: 180°/s

Camera (Zenmuse XT)	
Thermal imager	Uncooled VOx microbolometer
FPA/digital video display formats	640 × 512 pixels
Analog video display formats	<ul style="list-style-type: none"> 720 × 480 pixels (NTSC) 720 × 576 pixels (PAL)
Pixel pitch	17 μm
Spectral band	7.5–13.5 μm
Frame rates	<ul style="list-style-type: none"> 7.5 Hz (NTSC) 8.3 Hz (PAL)
Sensitivity (NEΔT)	<50 mK at f/1.0
Accuracy	±20°C (±36°F)
Scene range (high gain)	-25 to +135°C (-13 to +275°F)
Scene range (low gain)	-40 to 550°C (-40 to +1022°F)
Spot meter	Temperatures measured in central 4 × 4 pixels
File storage	Micro SD card. 16 GB Class 10 included, up to 32 GB supported.
Data logging	<ul style="list-style-type: none"> 8-bit AGC + LUT video at camera frame rate packaged in either .MOV or .MP4 wrappers. 8-bit AGC + LUT still images in .JPG. 14-bit TIFF raw still images with FLIR-specified metadata.

Camera (Zenmuse X3)	
Name	X3
Model	FC350
Total pixels	12.76 Mpixel
Effective pixels	12.4 Mpixel
Image max. size	4000 × 3000
ISO range	<ul style="list-style-type: none"> 100–3200 (video) 100–1600 (photo)
Electronic shutter speed	8 s to 1/8000 s
FOV (field of view)	94°
CMOS	Sony EXMOR 1/2.3"



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Website

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Customer support

<http://support.flir.com>

Camera (Zemuse X3)	
Lens	<ul style="list-style-type: none">• 20 mm (35 mm format equivalent) f/2.8 focus at ∞• 9 elements in 9 groups• Anti-distortion
Still photography modes	<ul style="list-style-type: none">• Single shoot• Burst shooting: 3/5/7 frames• Auto exposure bracketing (AEB): 3/5 bracketed frames at 0.7 EV bias• Time-lapse
Video recording modes	<ul style="list-style-type: none">• UHD (4K): 4096x2160p24/25, 3840x2160p24/25/30• FHD: 1920x1080p24/25/30/48/50/60• HD: 1280x720p24/25/30/48/50/60
Max. bit rate of video storage	60 Mbps
Supported file formats	<ul style="list-style-type: none">• FAT32/exFAT• Photo: JPEG, DNG• Video: MP4/MOV (MPEG-4 AVC/H.264)
Supported SD card types	<ul style="list-style-type: none">• Micro SD• Max. capacity: 64 GB. Class 10 or UHS-1 rating required.
Operating temperature range	0 to +40°C (+32 to +104°F)

Image processing and display controls	
NTSC/PAL (field switchable)	Yes
Image optimization	Yes
Digital detail	Yes

Enhancement	
Polarity control (black hot/white hot)	Yes
Color and monochrome palettes (LUTs)	Yes
Digital zoom	2x, 4x

Lens model	
Focal length	19 mm
f number	f/1.25
FoV	32° × 26°
iFoV	0.895 mrad
Minimum focus distance	15.3 cm (6.0 in.)
Hyperfocal distance	9.5 m (31.1 ft.)
Hyperfocal depth of field	4.8 m (15.8 ft.)

Environmental	
Operating temperature range	-10 to +40°C (+14 to +104°F)
Non-operating temperature range	-30 to +70°C (-22 to +158°F)
Temperature shock	5°C/min (41°F/min)
Humidity	5-95%

Certifications	
Compliance	http://www.dji.com/euro-compliance



FLIR Aerial Utility Kit w/out iPad (9 Hz)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Remote controller	
Name	C1
Operating frequency	<ul style="list-style-type: none">922.7–927.7 MHz (Japan only)5.725–5.825 GHz2.400–2.483 GHz
Transmitting distance	<ul style="list-style-type: none">Up to 5.0 km (3.1 miles) (unobstructed, free of interferences and FCC compliant) when it is FCC compliantUp to 3.5 km (2.1 miles) (unobstructed, free of interferences) when it is CE compliant
EIRP	<ul style="list-style-type: none">10 dBm @ 900 m13 dBm @ 5.8 G20 dBm @ 2.4 G
Video output port	USB, Mini-HDMI
Power supply	Built-in battery
Charging	DJI charger
Dual-user capability	Host-and-slave connection
Mobile device holder	Tablet or smart phone
Output power	9 W
Operating temperature range	–10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: –20 to +45°C (–4 to 113°F)More than 3 months: 22–28°C (72–82°F)
Charging temperature range	0–40°C (32–104°F)
Battery	6000 mA h LiPo 2S

Charger	
Model	A14-100P1A
Voltage	26.3 V
Rated power	100 W

Battery (standard)	
Name	Intelligent flight battery
Model	TB47
Capacity	4500 mA h
Voltage	22.2 V
Battery type	LiPo 6S high-voltage battery
Energy	99.9 W h
Net weight	570 g
Operating temperature range	–10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: –20 to +45°C (–4 to 113°F)More than 3 months: 22–28°C (72–82°F)
Charging temperature range	0–40°C (32–104°F)
Maximum charging power	180 W
Maximum number of charging cycles	200

Battery (optional)	
Name	Intelligent flight battery
Model	TB48



FLIR Aerial Utility Kit w/out iPad (9 Hz)

P/N: 76605-0507

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Battery (optional)	
Capacity	5700 mA h
Voltage	22.8 V
Battery type	LiPo 6S
Energy	129.96 W h
Net weight	670 g
Operating temperature range	-10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">• Less than 3 months: -20 to +45°C (-4 to 113°F)• More than 3 months: 22-28°C (72-82°F)
Charging temperature range	0-40°C (32-104°F)
Maximum charging power	180 W
Maximum number of charging cycles	200

Vision positioning	
Velocity range	Below 8 m/s (26 ft./s) (2 m (6.6 ft.) above ground)
Altitude range	5-500 cm (2.0-200 in.)
Operating environment	Brightly lit (lux > 15) patterned surfaces
Operating range	0-300 cm (0-120 in.)

DJI GO app	
Mobile device system requirements	<ul style="list-style-type: none">• iOS version 7.1 or later• Android version 4.1.2 or later
Supported mobile devices	<ul style="list-style-type: none">• iPhone 6 Plus• iPhone 6• iPhone 5S• iPad Air 2• iPad Mini 3• iPad Air• iPad Mini 2• iPad 4• Samsung Note 3• Samsung S5• Sony Z3 EXPERIA <p>NOTE: It is recommended that you use a tablet for the best experience</p>

Documentation and firmware	
Download link	http://tinyurl.com/z8esgtc

Warranty	
Warranty	http://www.dji.com/service#warranty_period

Shipping information	
Packaging type	Cardboard box
List of contents	<ul style="list-style-type: none">• Inspire T600 aircraft• Zenmuse XT thermal camera with stabilized gimbal• Zenmuse X3 video camera with stabilized gimbal• Controller (x2, one for the operator and one for the pilot)• Battery (x2)• FLIR Tools+• Monitor hoods (x2)• Rugged carry case (x2)• Landing Pad

P/N: 76005-1507

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Website

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Customer support

<http://support.flir.com>



Aircraft	
Model	Inspire 1 – T600
Weight (battery included)	2935 g (6.471 lb.)
Hovering accuracy (P mode)	<ul style="list-style-type: none"> Vertical: 0.5 m (1.6 ft.) Horizontal: 2.5 m (8.2 ft.)
Maximum angular velocity	<ul style="list-style-type: none"> Pitch: 300°/s Yaw: 150°/s
Maximum tilt angle	35°
Maximum ascent speed	5 m/s (16 ft./s)
Maximum descent speed	4 m/s (13 ft./s)
Maximum speed	22 m/s (72 ft./s) (ATTI mode, no wind)
Maximum service ceiling above sea level	4500 m (14 700 ft.)(software altitude limit: 120 m (390 ft.) above takeoff point)
Maximum wind speed resistance	10 m/s (32 ft./s)
Maximum flight time	Approximately 18 minutes
Motor model	DJI 3510
Propeller model	DJI 1345T
Indoor hovering	Enabled by default
Operating temperature range	-10 to +40°C (+14 to +104°F)
Diagonal distance	559–581 mm (22.0–22.8 in.)
Dimensions	438 mm × 451 mm × 301 mm

Gimbal (Zenmuse XT)	
Name	Zenmuse XT
Dimensions	103 mm × 74 mm × 102 mm (17.2 in. × 17.8 in. × 11.9 in.)
Weight	270 g (0.60 lb.)
Angular vibration range	±0.03°
Mount	Detachable
Controllable range	<ul style="list-style-type: none"> Tilt: +35° to -90° Pan: ±320° Roll: ±15°
Mechanical range	<ul style="list-style-type: none"> Tilt: +45° to -135° Pan: ±320° Roll: ±45°
Maximum controllable speed	120°/s



FLIR Aerial Utility Kit w/out iPad, R (30 Hz)

P/N: 76005-1507

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Website

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Customer support

<http://support.flir.com>

Gimbal (Zenmuse X3)	
Model	Zenmuse X3
Output power (with camera)	<ul style="list-style-type: none"> Static: 9 W In motion: 11 W
Operating current	<ul style="list-style-type: none"> Station: 750 mA Motion: 900 mA
Angular vibration range	±0.03°
Mounting	Detachable
Controllable range	<ul style="list-style-type: none"> Pitch: -90° to +30° Pan: ±320°
Mechanical range	<ul style="list-style-type: none"> Pitch: -125° to +45° Pan: ±330°
Max. controllable speed	<ul style="list-style-type: none"> Pitch: 120°/s Pan: 180°/s

Camera (Zenmuse XT)	
Thermal imager	Uncooled VOx microbolometer
FPA/digital video display formats	640 × 512 pixels
Analog video display formats	<ul style="list-style-type: none"> 720 × 480 pixels (NTSC) 720 × 576 pixels (PAL)
Pixel pitch	17 μm
Spectral band	7.5–13.5 μm
Frame rates	<ul style="list-style-type: none"> 30 Hz (NTSC) 25 Hz (PAL)
Sensitivity (NEΔT)	<50 mK at f/1.0
Accuracy	±5°C (±9°F)
Scene range (high gain)	-25 to +135°C (-13 to +275°F)
Scene range (low gain)	-40 to 550°C (-40 to +1022°F)
Measurement area	Temperatures measured in the full image
File storage	Micro SD card. 16 GB Class 10 included, up to 32 GB supported.
Data logging	<ul style="list-style-type: none"> 8-bit AGC + LUT video at camera frame rate packaged in either .MOV or .MP4 wrappers. 8-bit AGC + LUT still images in .JPG. 14-bit TIFF raw still images with FLIR-specified metadata.

Camera (Zenmuse X3)	
Name	X3
Model	FC350
Total pixels	12.76 Mpixel
Effective pixels	12.4 Mpixel
Image max. size	4000 × 3000
ISO range	<ul style="list-style-type: none"> 100–3200 (video) 100–1600 (photo)
Electronic shutter speed	8 s to 1/8000 s
FOV (field of view)	94°
CMOS	Sony EXMOR 1/2.3"



FLIR Aerial Utility Kit w/out iPad, R (30 Hz)

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Website

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Customer support

<http://support.flir.com>

Camera (Zemuse X3)	
Lens	<ul style="list-style-type: none">• 20 mm (35 mm format equivalent) f/2.8 focus at ∞• 9 elements in 9 groups• Anti-distortion
Still photography modes	<ul style="list-style-type: none">• Single shoot• Burst shooting: 3/5/7 frames• Auto exposure bracketing (AEB): 3/5 bracketed frames at 0.7 EV bias• Time-lapse
Video recording modes	<ul style="list-style-type: none">• UHD (4K): 4096x2160p24/25, 3840x2160p24/25/30• FHD: 1920x1080p24/25/30/48/50/60• HD: 1280x720p24/25/30/48/50/60
Max. bit rate of video storage	60 Mbps
Supported file formats	<ul style="list-style-type: none">• FAT32/exFAT• Photo: JPEG, DNG• Video: MP4/MOV (MPEG-4 AVC/H.264)
Supported SD card types	<ul style="list-style-type: none">• Micro SD• Max. capacity: 64 GB. Class 10 or UHS-1 rating required.
Operating temperature range	0 to +40°C (+32 to +104°F)

Image processing and display controls	
NTSC/PAL (field switchable)	Yes
Image optimization	Yes
Digital detail	Yes

Enhancement	
Polarity control (black hot/white hot)	Yes
Color and monochrome palettes (LUTs)	Yes
Digital zoom	2x, 4x

Lens model	
Focal length	19 mm
f number	f/1.25
FoV	32° × 26°
iFoV	0.895 mrad
Minimum focus distance	15.3 cm (6.0 in.)
Hyperfocal distance	9.5 m (31.1 ft.)
Hyperfocal depth of field	4.8 m (15.8 ft.)

Environmental	
Operating temperature range	-10 to +40°C (+14 to +104°F)
Non-operating temperature range	-30 to +70°C (-22 to +158°F)
Temperature shock	5°C/min (41°F/min)
Humidity	5-95%

Certifications	
Compliance	http://www.dji.com/euro-compliance



FLIR Aerial Utility Kit w/out iPad, R (30 Hz)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Remote controller	
Name	C1
Operating frequency	<ul style="list-style-type: none"> 922.7–927.7 MHz (Japan only) 5.725–5.825 GHz 2.400–2.483 GHz
Transmitting distance	<ul style="list-style-type: none"> Up to 5.0 km (3.1 miles) (unobstructed, free of interferences and FCC compliant) when it is FCC compliant Up to 3.5 km (2.1 miles) (unobstructed, free of interferences) when it is CE compliant
EIRP	<ul style="list-style-type: none"> 10 dBm @ 900 m 13 dBm @ 5.8 G 20 dBm @ 2.4 G
Video output port	USB, Mini-HDMI
Power supply	Built-in battery
Charging	DJI charger
Dual-user capability	Host-and-slave connection
Mobile device holder	Tablet or smart phone
Output power	9 W
Operating temperature range	–10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none"> Less than 3 months: –20 to +45°C (–4 to 113°F) More than 3 months: 22–28°C (72–82°F)
Charging temperature range	0–40°C (32–104°F)
Battery	6000 mA h LiPo 2S

Charger	
Model	A14-100P1A
Voltage	26.3 V
Rated power	100 W

Battery (standard)	
Name	Intelligent flight battery
Model	TB47
Capacity	4500 mA h
Voltage	22.2 V
Battery type	LiPo 6S high-voltage battery
Energy	99.9 W h
Net weight	570 g
Operating temperature range	–10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none"> Less than 3 months: –20 to +45°C (–4 to 113°F) More than 3 months: 22–28°C (72–82°F)
Charging temperature range	0–40°C (32–104°F)
Maximum charging power	180 W
Maximum number of charging cycles	200

Battery (optional)	
Name	Intelligent flight battery
Model	TB48



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Battery (optional)	
Capacity	5700 mA h
Voltage	22.8 V
Battery type	LiPo 6S
Energy	129.96 W h
Net weight	670 g
Operating temperature range	-10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: -20 to +45°C (-4 to 113°F)More than 3 months: 22-28°C (72-82°F)
Charging temperature range	0-40°C (32-104°F)
Maximum charging power	180 W
Maximum number of charging cycles	200

Vision positioning	
Velocity range	Below 8 m/s (26 ft./s) (2 m (6.6 ft.) above ground)
Altitude range	5-500 cm (2.0-200 in.)
Operating environment	Brightly lit (lux > 15) patterned surfaces
Operating range	0-300 cm (0-120 in.)

DJI GO app	
Mobile device system requirements	<ul style="list-style-type: none">iOS version 7.1 or laterAndroid version 4.1.2 or later
Supported mobile devices	<ul style="list-style-type: none">iPhone 6 PlusiPhone 6iPhone 5SiPad Air 2iPad Mini 3iPad AiriPad Mini 2iPad 4Samsung Note 3Samsung S5Sony Z3 EXPERIA <p>NOTE: It is recommended that you use a tablet for the best experience</p>

Documentation and firmware	
Download link	http://tinyurl.com/z8esgtc

Warranty	
Warranty	http://www.dji.com/service#warranty_period

Global trade data	
HS Code	<ul style="list-style-type: none">8802200015 (Inspire 1)9032896085 (Zenmuse XT)
ECCN code	6A003.b.4.b. (Zenmuse XT)

Shipping information	
Packaging type	Cardboard box



FLIR Aerial Utility Kit w/out iPad, R (30 Hz)

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Website

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Customer support

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Shipping information

List of contents

- Inspire T600 aircraft
- Zenmuse XT thermal camera with stabilized gimbal
- Zenmuse X3 video camera with stabilized gimbal
- Controller (x2, one for the operator and one for the pilot)
- Battery (x2)
- FLIR Tools+
- Monitor hoods (x2)
- Rugged carry case (x2)
- Landing Pad

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Aircraft	
Model	Inspire 1 – T600
Weight (battery included)	2935 g (6.471 lb.)
Hovering accuracy (P mode)	<ul style="list-style-type: none"> Vertical: 0.5 m (1.6 ft.) Horizontal: 2.5 m (8.2 ft.)
Maximum angular velocity	<ul style="list-style-type: none"> Pitch: 300°/s Yaw: 150°/s
Maximum tilt angle	35°
Maximum ascent speed	5 m/s (16 ft./s)
Maximum descent speed	4 m/s (13 ft./s)
Maximum speed	22 m/s (72 ft./s) (ATTI mode, no wind)
Maximum service ceiling above sea level	4500 m (14 700 ft.)(software altitude limit: 120 m (390 ft.) above takeoff point)
Maximum wind speed resistance	10 m/s (32 ft./s)
Maximum flight time	Approximately 18 minutes
Motor model	DJI 3510
Propeller model	DJI 1345T
Indoor hovering	Enabled by default
Operating temperature range	-10 to +40°C (+14 to +104°F)
Diagonal distance	559–581 mm (22.0–22.8 in.)
Dimensions	438 mm × 451 mm × 301 mm

Gimbal (Zenmuse XT)	
Name	Zenmuse XT
Dimensions	103 mm × 74 mm × 102 mm (17.2 in. × 17.8 in. × 11.9 in.)
Weight	270 g (0.60 lb.)
Angular vibration range	±0.03°
Mount	Detachable
Controllable range	<ul style="list-style-type: none"> Tilt: +35° to -90° Pan: ±320° Roll: ±15°
Mechanical range	<ul style="list-style-type: none"> Tilt: +45° to -135° Pan: ±320° Roll: ±45°
Maximum controllable speed	120°/s



FLIR Aerial Utility Kit w/out iPad, R (9 Hz)

P/N: 76605-1507

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Website

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Customer support

<http://support.flir.com>

Gimbal (Zenmuse X3)	
Model	Zenmuse X3
Output power (with camera)	<ul style="list-style-type: none"> Static: 9 W In motion: 11 W
Operating current	<ul style="list-style-type: none"> Station: 750 mA Motion: 900 mA
Angular vibration range	±0.03°
Mounting	Detachable
Controllable range	<ul style="list-style-type: none"> Pitch: -90° to +30° Pan: ±320°
Mechanical range	<ul style="list-style-type: none"> Pitch: -125° to +45° Pan: ±330°
Max. controllable speed	<ul style="list-style-type: none"> Pitch: 120°/s Pan: 180°/s

Camera (Zenmuse XT)	
Thermal imager	Uncooled VOx microbolometer
FPA/digital video display formats	640 × 512 pixels
Analog video display formats	<ul style="list-style-type: none"> 720 × 480 pixels (NTSC) 720 × 576 pixels (PAL)
Pixel pitch	17 μm
Spectral band	7.5–13.5 μm
Frame rates	<ul style="list-style-type: none"> 7.5 Hz (NTSC) 8.3 Hz (PAL)
Sensitivity (NEΔT)	<50 mK at f/1.0
Accuracy	±5°C (±9°F)
Scene range (high gain)	-25 to +135°C (-13 to +275°F)
Scene range (low gain)	-40 to 550°C (-40 to +1022°F)
Measurement area	Temperatures measured in the full image
File storage	Micro SD card. 16 GB Class 10 included, up to 32 GB supported.
Data logging	<ul style="list-style-type: none"> 8-bit AGC + LUT video at camera frame rate packaged in either .MOV or .MP4 wrappers. 8-bit AGC + LUT still images in .JPG. 14-bit TIFF raw still images with FLIR-specified metadata.

Camera (Zenmuse X3)	
Name	X3
Model	FC350
Total pixels	12.76 Mpixel
Effective pixels	12.4 Mpixel
Image max. size	4000 × 3000
ISO range	<ul style="list-style-type: none"> 100–3200 (video) 100–1600 (photo)
Electronic shutter speed	8 s to 1/8000 s
FOV (field of view)	94°
CMOS	Sony EXMOR 1/2.3"



FLIR Aerial Utility Kit w/out iPad, R (9 Hz)

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Website

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Customer support

<http://support.flir.com>

Camera (Zemuse X3)	
Lens	<ul style="list-style-type: none">• 20 mm (35 mm format equivalent) f/2.8 focus at ∞• 9 elements in 9 groups• Anti-distortion
Still photography modes	<ul style="list-style-type: none">• Single shoot• Burst shooting: 3/5/7 frames• Auto exposure bracketing (AEB): 3/5 bracketed frames at 0.7 EV bias• Time-lapse
Video recording modes	<ul style="list-style-type: none">• UHD (4K): 4096x2160p24/25, 3840x2160p24/25/30• FHD: 1920x1080p24/25/30/48/50/60• HD: 1280x720p24/25/30/48/50/60
Max. bit rate of video storage	60 Mbps
Supported file formats	<ul style="list-style-type: none">• FAT32/exFAT• Photo: JPEG, DNG• Video: MP4/MOV (MPEG-4 AVC/H.264)
Supported SD card types	<ul style="list-style-type: none">• Micro SD• Max. capacity: 64 GB. Class 10 or UHS-1 rating required.
Operating temperature range	0 to +40°C (+32 to +104°F)

Image processing and display controls	
NTSC/PAL (field switchable)	Yes
Image optimization	Yes
Digital detail	Yes

Enhancement	
Polarity control (black hot/white hot)	Yes
Color and monochrome palettes (LUTs)	Yes
Digital zoom	2x, 4x

Lens model	
Focal length	19 mm
f number	f/1.25
FoV	32° × 26°
iFoV	0.895 mrad
Minimum focus distance	15.3 cm (6.0 in.)
Hyperfocal distance	9.5 m (31.1 ft.)
Hyperfocal depth of field	4.8 m (15.8 ft.)

Environmental	
Operating temperature range	-10 to +40°C (+14 to +104°F)
Non-operating temperature range	-30 to +70°C (-22 to +158°F)
Temperature shock	5°C/min (41°F/min)
Humidity	5-95%

Certifications	
Compliance	http://www.dji.com/euro-compliance



FLIR Aerial Utility Kit w/out iPad, R (9 Hz)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Remote controller	
Name	C1
Operating frequency	<ul style="list-style-type: none">922.7–927.7 MHz (Japan only)5.725–5.825 GHz2.400–2.483 GHz
Transmitting distance	<ul style="list-style-type: none">Up to 5.0 km (3.1 miles) (unobstructed, free of interferences and FCC compliant) when it is FCC compliantUp to 3.5 km (2.1 miles) (unobstructed, free of interferences) when it is CE compliant
EIRP	<ul style="list-style-type: none">10 dBm @ 900 m13 dBm @ 5.8 G20 dBm @ 2.4 G
Video output port	USB, Mini-HDMI
Power supply	Built-in battery
Charging	DJI charger
Dual-user capability	Host-and-slave connection
Mobile device holder	Tablet or smart phone
Output power	9 W
Operating temperature range	–10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: –20 to +45°C (–4 to 113°F)More than 3 months: 22–28°C (72–82°F)
Charging temperature range	0–40°C (32–104°F)
Battery	6000 mA h LiPo 2S

Charger	
Model	A14-100P1A
Voltage	26.3 V
Rated power	100 W

Battery (standard)	
Name	Intelligent flight battery
Model	TB47
Capacity	4500 mA h
Voltage	22.2 V
Battery type	LiPo 6S high-voltage battery
Energy	99.9 W h
Net weight	570 g
Operating temperature range	–10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: –20 to +45°C (–4 to 113°F)More than 3 months: 22–28°C (72–82°F)
Charging temperature range	0–40°C (32–104°F)
Maximum charging power	180 W
Maximum number of charging cycles	200

Battery (optional)	
Name	Intelligent flight battery
Model	TB48



FLIR Aerial Utility Kit w/out iPad, R (9 Hz)

P/N: 76605-1507

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Battery (optional)	
Capacity	5700 mA h
Voltage	22.8 V
Battery type	LiPo 6S
Energy	129.96 W h
Net weight	670 g
Operating temperature range	-10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: -20 to +45°C (-4 to 113°F)More than 3 months: 22-28°C (72-82°F)
Charging temperature range	0-40°C (32-104°F)
Maximum charging power	180 W
Maximum number of charging cycles	200

Vision positioning	
Velocity range	Below 8 m/s (26 ft./s) (2 m (6.6 ft.) above ground)
Altitude range	5-500 cm (2.0-200 in.)
Operating environment	Brightly lit (lux > 15) patterned surfaces
Operating range	0-300 cm (0-120 in.)

DJI GO app	
Mobile device system requirements	<ul style="list-style-type: none">iOS version 7.1 or laterAndroid version 4.1.2 or later
Supported mobile devices	<ul style="list-style-type: none">iPhone 6 PlusiPhone 6iPhone 5SiPad Air 2iPad Mini 3iPad AiriPad Mini 2iPad 4Samsung Note 3Samsung S5Sony Z3 EXPERIA <p>NOTE: It is recommended that you use a tablet for the best experience</p>

Documentation and firmware	
Download link	http://tinyurl.com/z8esgtc

Warranty	
Warranty	http://www.dji.com/service#warranty_period

Global trade data	
HS Code	<ul style="list-style-type: none">8802200015 (Inspire 1)9032896085 (Zenmuse XT)
ECCN code	6A993.a (Zenmuse XT)

Shipping information	
Packaging type	Cardboard box



FLIR Aerial Utility Kit w/out iPad, R (9 Hz)

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Website

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Customer support

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Shipping information

List of contents

- Inspire T600 aircraft
- Zenmuse XT thermal camera with stabilized gimbal
- Zenmuse X3 video camera with stabilized gimbal
- Controller (x2, one for the operator and one for the pilot)
- Battery (x2)
- FLIR Tools+
- Monitor hoods (x2)
- Rugged carry case (x2)
- Landing Pad

P/N: 76005-1505

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Website

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Customer support

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Aircraft	
Model	Inspire 1 – T600
Weight (battery included)	2935 g (6.471 lb.)
Hovering accuracy (P mode)	<ul style="list-style-type: none"> Vertical: 0.5 m (1.6 ft.) Horizontal: 2.5 m (8.2 ft.)
Maximum angular velocity	<ul style="list-style-type: none"> Pitch: 300°/s Yaw: 150°/s
Maximum tilt angle	35°
Maximum ascent speed	5 m/s (16 ft./s)
Maximum descent speed	4 m/s (13 ft./s)
Maximum speed	22 m/s (72 ft./s) (ATTI mode, no wind)
Maximum service ceiling above sea level	4500 m (14 700 ft.)(software altitude limit: 120 m (390 ft.) above takeoff point)
Maximum wind speed resistance	10 m/s (32 ft./s)
Maximum flight time	Approximately 18 minutes
Motor model	DJI 3510
Propeller model	DJI 1345T
Indoor hovering	Enabled by default
Operating temperature range	-10 to +40°C (+14 to +104°F)
Diagonal distance	559–581 mm (22.0–22.8 in.)
Dimensions	438 mm × 451 mm × 301 mm

Gimbal (Zenmuse XT)	
Name	Zenmuse XT
Dimensions	103 mm × 74 mm × 102 mm (17.2 in. × 17.8 in. × 11.9 in.)
Weight	270 g (0.60 lb.)
Angular vibration range	±0.03°
Mount	Detachable
Controllable range	<ul style="list-style-type: none"> Tilt: +35° to -90° Pan: ±320° Roll: ±15°
Mechanical range	<ul style="list-style-type: none"> Tilt: +45° to -135° Pan: ±320° Roll: ±45°
Maximum controllable speed	120°/s



FLIR Aerial Utility Kit, R (30 Hz)

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Gimbal (Zenmuse X3)	
Model	Zenmuse X3
Output power (with camera)	<ul style="list-style-type: none">• Static: 9 W• In motion: 11 W
Operating current	<ul style="list-style-type: none">• Station: 750 mA• Motion: 900 mA
Angular vibration range	±0.03°
Mounting	Detachable
Controllable range	<ul style="list-style-type: none">• Pitch: -90° to +30°• Pan: ±320°
Mechanical range	<ul style="list-style-type: none">• Pitch: -125° to +45°• Pan: ±330°
Max. controllable speed	<ul style="list-style-type: none">• Pitch: 120°/s• Pan: 180°/s

Camera (Zenmuse XT)	
Thermal imager	Uncooled VOx microbolometer
FPA/digital video display formats	640 × 512 pixels
Analog video display formats	<ul style="list-style-type: none">• 720 × 480 pixels (NTSC)• 720 × 576 pixels (PAL)
Pixel pitch	17 μm
Spectral band	7.5–13.5 μm
Frame rates	<ul style="list-style-type: none">• 30 Hz (NTSC)• 25 Hz (PAL)
Sensitivity (NEΔT)	<50 mK at f/1.0
Accuracy	±5°C (±9°F)
Scene range (high gain)	-25 to +135°C (-13 to +275°F)
Scene range (low gain)	-40 to 550°C (-40 to +1022°F)
Measurement area	Temperatures measured in the full image
File storage	Micro SD card. 16 GB Class 10 included, up to 32 GB supported.
Data logging	<ul style="list-style-type: none">• 8-bit AGC + LUT video at camera frame rate packaged in either .MOV or .MP4 wrappers.• 8-bit AGC + LUT still images in .JPG.• 14-bit TIFF raw still images with FLIR-specified metadata.

Camera (Zenmuse X3)	
Name	X3
Model	FC350
Total pixels	12.76 Mpixel
Effective pixels	12.4 Mpixel
Image max. size	4000 × 3000
ISO range	<ul style="list-style-type: none">• 100–3200 (video)• 100–1600 (photo)
Electronic shutter speed	8 s to 1/8000 s
FOV (field of view)	94°
CMOS	Sony EXMOR 1/2.3"



FLIR Aerial Utility Kit, R (30 Hz)

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Camera (Zemuse X3)	
Lens	<ul style="list-style-type: none">• 20 mm (35 mm format equivalent) f/2.8 focus at ∞• 9 elements in 9 groups• Anti-distortion
Still photography modes	<ul style="list-style-type: none">• Single shoot• Burst shooting: 3/5/7 frames• Auto exposure bracketing (AEB): 3/5 bracketed frames at 0.7 EV bias• Time-lapse
Video recording modes	<ul style="list-style-type: none">• UHD (4K): 4096x2160p24/25, 3840x2160p24/25/30• FHD: 1920x1080p24/25/30/48/50/60• HD: 1280x720p24/25/30/48/50/60
Max. bit rate of video storage	60 Mbps
Supported file formats	<ul style="list-style-type: none">• FAT32/exFAT• Photo: JPEG, DNG• Video: MP4/MOV (MPEG-4 AVC/H.264)
Supported SD card types	<ul style="list-style-type: none">• Micro SD• Max. capacity: 64 GB. Class 10 or UHS-1 rating required.
Operating temperature range	0 to +40°C (+32 to +104°F)

Image processing and display controls	
NTSC/PAL (field switchable)	Yes
Image optimization	Yes
Digital detail	Yes

Enhancement	
Polarity control (black hot/white hot)	Yes
Color and monochrome palettes (LUTs)	Yes
Digital zoom	2x, 4x

Lens model	
Focal length	19 mm
f number	f/1.25
FoV	32° × 26°
iFoV	0.895 mrad
Minimum focus distance	15.3 cm (6.0 in.)
Hyperfocal distance	9.5 m (31.1 ft.)
Hyperfocal depth of field	4.8 m (15.8 ft.)

Environmental	
Operating temperature range	-10 to +40°C (+14 to +104°F)
Non-operating temperature range	-30 to +70°C (-22 to +158°F)
Temperature shock	5°C/min (41°F/min)
Humidity	5-95%

Certifications	
Compliance	http://www.dji.com/euro-compliance



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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Remote controller	
Name	C1
Operating frequency	<ul style="list-style-type: none">922.7–927.7 MHz (Japan only)5.725–5.825 GHz2.400–2.483 GHz
Transmitting distance	<ul style="list-style-type: none">Up to 5.0 km (3.1 miles) (unobstructed, free of interferences and FCC compliant) when it is FCC compliantUp to 3.5 km (2.1 miles) (unobstructed, free of interferences) when it is CE compliant
EIRP	<ul style="list-style-type: none">10 dBm @ 900 m13 dBm @ 5.8 G20 dBm @ 2.4 G
Video output port	USB, Mini-HDMI
Power supply	Built-in battery
Charging	DJI charger
Dual-user capability	Host-and-slave connection
Mobile device holder	Tablet or smart phone
Output power	9 W
Operating temperature range	–10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: –20 to +45°C (–4 to 113°F)More than 3 months: 22–28°C (72–82°F)
Charging temperature range	0–40°C (32–104°F)
Battery	6000 mA h LiPo 2S

Charger	
Model	A14-100P1A
Voltage	26.3 V
Rated power	100 W

Battery (standard)	
Name	Intelligent flight battery
Model	TB47
Capacity	4500 mA h
Voltage	22.2 V
Battery type	LiPo 6S high-voltage battery
Energy	99.9 W h
Net weight	570 g
Operating temperature range	–10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: –20 to +45°C (–4 to 113°F)More than 3 months: 22–28°C (72–82°F)
Charging temperature range	0–40°C (32–104°F)
Maximum charging power	180 W
Maximum number of charging cycles	200

Battery (optional)	
Name	Intelligent flight battery
Model	TB48



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Website

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Customer support

<http://support.flir.com>

Battery (optional)	
Capacity	5700 mA h
Voltage	22.8 V
Battery type	LiPo 6S
Energy	129.96 W h
Net weight	670 g
Operating temperature range	-10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: -20 to +45°C (-4 to 113°F)More than 3 months: 22-28°C (72-82°F)
Charging temperature range	0-40°C (32-104°F)
Maximum charging power	180 W
Maximum number of charging cycles	200

Vision positioning	
Velocity range	Below 8 m/s (26 ft./s) (2 m (6.6 ft.) above ground)
Altitude range	5-500 cm (2.0-200 in.)
Operating environment	Brightly lit (lux > 15) patterned surfaces
Operating range	0-300 cm (0-120 in.)

DJI GO app	
Mobile device system requirements	<ul style="list-style-type: none">iOS version 7.1 or laterAndroid version 4.1.2 or later
Supported mobile devices	<ul style="list-style-type: none">iPhone 6 PlusiPhone 6iPhone 5SiPad Air 2iPad Mini 3iPad AiriPad Mini 2iPad 4Samsung Note 3Samsung S5Sony Z3 EXPERIA <p>NOTE: It is recommended that you use a tablet for the best experience</p>

Documentation and firmware	
Download link	http://tinyurl.com/z8esgtc

Warranty	
Warranty	http://www.dji.com/service#warranty_period

Global trade data	
HS Code	<ul style="list-style-type: none">8802200015 (Inspire 1)9032896085 (Zenmuse XT)
ECCN code	6A003.b.4.b. (Zenmuse XT)

Shipping information	
Packaging type	Cardboard box



FLIR Aerial Utility Kit, R (30 Hz)

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Website

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Customer support

<http://support.flir.com>

Shipping information

List of contents

- Inspire T600 aircraft
- Zenmuse XT thermal camera with stabilized gimbal
- Zenmuse X3 video camera with stabilized gimbal
- Controller (x2, one for the operator and one for the pilot)
- Battery (x2)
- FLIR Tools+
- iPad Mini 4 (128 GB, Wi-Fi and cellular) (x2)
- Monitor hoods (x2)
- Rugged carry case (x2)
- Landing Pad

P/N: 76605-1505

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Aircraft	
Model	Inspire 1 – T600
Weight (battery included)	2935 g (6.471 lb.)
Hovering accuracy (P mode)	<ul style="list-style-type: none"> Vertical: 0.5 m (1.6 ft.) Horizontal: 2.5 m (8.2 ft.)
Maximum angular velocity	<ul style="list-style-type: none"> Pitch: 300°/s Yaw: 150°/s
Maximum tilt angle	35°
Maximum ascent speed	5 m/s (16 ft./s)
Maximum descent speed	4 m/s (13 ft./s)
Maximum speed	22 m/s (72 ft./s) (ATTI mode, no wind)
Maximum service ceiling above sea level	4500 m (14 700 ft.)(software altitude limit: 120 m (390 ft.) above takeoff point)
Maximum wind speed resistance	10 m/s (32 ft./s)
Maximum flight time	Approximately 18 minutes
Motor model	DJI 3510
Propeller model	DJI 1345T
Indoor hovering	Enabled by default
Operating temperature range	-10 to +40°C (+14 to +104°F)
Diagonal distance	559–581 mm (22.0–22.8 in.)
Dimensions	438 mm × 451 mm × 301 mm

Gimbal (Zenmuse XT)	
Name	Zenmuse XT
Dimensions	103 mm × 74 mm × 102 mm (17.2 in. × 17.8 in. × 11.9 in.)
Weight	270 g (0.60 lb.)
Angular vibration range	±0.03°
Mount	Detachable
Controllable range	<ul style="list-style-type: none"> Tilt: +35° to -90° Pan: ±320° Roll: ±15°
Mechanical range	<ul style="list-style-type: none"> Tilt: +45° to -135° Pan: ±320° Roll: ±45°
Maximum controllable speed	120°/s



FLIR Aerial Utility Kit, R (9 Hz)

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Gimbal (Zenmuse X3)	
Model	Zenmuse X3
Output power (with camera)	<ul style="list-style-type: none">• Static: 9 W• In motion: 11 W
Operating current	<ul style="list-style-type: none">• Station: 750 mA• Motion: 900 mA
Angular vibration range	±0.03°
Mounting	Detachable
Controllable range	<ul style="list-style-type: none">• Pitch: -90° to +30°• Pan: ±320°
Mechanical range	<ul style="list-style-type: none">• Pitch: -125° to +45°• Pan: ±330°
Max. controllable speed	<ul style="list-style-type: none">• Pitch: 120°/s• Pan: 180°/s

Camera (Zenmuse XT)	
Thermal imager	Uncooled VOx microbolometer
FPA/digital video display formats	640 × 512 pixels
Analog video display formats	<ul style="list-style-type: none">• 720 × 480 pixels (NTSC)• 720 × 576 pixels (PAL)
Pixel pitch	17 μm
Spectral band	7.5–13.5 μm
Frame rates	<ul style="list-style-type: none">• 7.5 Hz (NTSC)• 8.3 Hz (PAL)
Sensitivity (NEΔT)	<50 mK at f/1.0
Accuracy	±5°C (±9°F)
Scene range (high gain)	-25 to +135°C (-13 to +275°F)
Scene range (low gain)	-40 to 550°C (-40 to +1022°F)
Measurement area	Temperatures measured in the full image
File storage	Micro SD card. 16 GB Class 10 included, up to 32 GB supported.
Data logging	<ul style="list-style-type: none">• 8-bit AGC + LUT video at camera frame rate packaged in either .MOV or .MP4 wrappers.• 8-bit AGC + LUT still images in .JPG.• 14-bit TIFF raw still images with FLIR-specified metadata.

Camera (Zenmuse X3)	
Name	X3
Model	FC350
Total pixels	12.76 Mpixel
Effective pixels	12.4 Mpixel
Image max. size	4000 × 3000
ISO range	<ul style="list-style-type: none">• 100–3200 (video)• 100–1600 (photo)
Electronic shutter speed	8 s to 1/8000 s
FOV (field of view)	94°
CMOS	Sony EXMOR 1/2.3"



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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Camera (Zemuse X3)	
Lens	<ul style="list-style-type: none">• 20 mm (35 mm format equivalent) f/2.8 focus at ∞• 9 elements in 9 groups• Anti-distortion
Still photography modes	<ul style="list-style-type: none">• Single shoot• Burst shooting: 3/5/7 frames• Auto exposure bracketing (AEB): 3/5 bracketed frames at 0.7 EV bias• Time-lapse
Video recording modes	<ul style="list-style-type: none">• UHD (4K): 4096x2160p24/25, 3840x2160p24/25/30• FHD: 1920x1080p24/25/30/48/50/60• HD: 1280x720p24/25/30/48/50/60
Max. bit rate of video storage	60 Mbps
Supported file formats	<ul style="list-style-type: none">• FAT32/exFAT• Photo: JPEG, DNG• Video: MP4/MOV (MPEG-4 AVC/H.264)
Supported SD card types	<ul style="list-style-type: none">• Micro SD• Max. capacity: 64 GB. Class 10 or UHS-1 rating required.
Operating temperature range	0 to +40°C (+32 to +104°F)

Image processing and display controls	
NTSC/PAL (field switchable)	Yes
Image optimization	Yes
Digital detail	Yes

Enhancement	
Polarity control (black hot/white hot)	Yes
Color and monochrome palettes (LUTs)	Yes
Digital zoom	2x, 4x

Lens model	
Focal length	19 mm
f number	f/1.25
FoV	32° × 26°
iFoV	0.895 mrad
Minimum focus distance	15.3 cm (6.0 in.)
Hyperfocal distance	9.5 m (31.1 ft.)
Hyperfocal depth of field	4.8 m (15.8 ft.)

Environmental	
Operating temperature range	-10 to +40°C (+14 to +104°F)
Non-operating temperature range	-30 to +70°C (-22 to +158°F)
Temperature shock	5°C/min (41°F/min)
Humidity	5-95%

Certifications	
Compliance	http://www.dji.com/euro-compliance



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Last modified

2017-06-28 10:52 UTC+1

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Remote controller	
Name	C1
Operating frequency	<ul style="list-style-type: none">922.7–927.7 MHz (Japan only)5.725–5.825 GHz2.400–2.483 GHz
Transmitting distance	<ul style="list-style-type: none">Up to 5.0 km (3.1 miles) (unobstructed, free of interferences and FCC compliant) when it is FCC compliantUp to 3.5 km (2.1 miles) (unobstructed, free of interferences) when it is CE compliant
EIRP	<ul style="list-style-type: none">10 dBm @ 900 m13 dBm @ 5.8 G20 dBm @ 2.4 G
Video output port	USB, Mini-HDMI
Power supply	Built-in battery
Charging	DJI charger
Dual-user capability	Host-and-slave connection
Mobile device holder	Tablet or smart phone
Output power	9 W
Operating temperature range	–10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: –20 to +45°C (–4 to 113°F)More than 3 months: 22–28°C (72–82°F)
Charging temperature range	0–40°C (32–104°F)
Battery	6000 mA h LiPo 2S

Charger	
Model	A14-100P1A
Voltage	26.3 V
Rated power	100 W

Battery (standard)	
Name	Intelligent flight battery
Model	TB47
Capacity	4500 mA h
Voltage	22.2 V
Battery type	LiPo 6S high-voltage battery
Energy	99.9 W h
Net weight	570 g
Operating temperature range	–10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: –20 to +45°C (–4 to 113°F)More than 3 months: 22–28°C (72–82°F)
Charging temperature range	0–40°C (32–104°F)
Maximum charging power	180 W
Maximum number of charging cycles	200

Battery (optional)	
Name	Intelligent flight battery
Model	TB48



FLIR Aerial Utility Kit, R (9 Hz)

P/N: 76605-1505

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Battery (optional)	
Capacity	5700 mA h
Voltage	22.8 V
Battery type	LiPo 6S
Energy	129.96 W h
Net weight	670 g
Operating temperature range	-10 to +40°C (+14 to +104°F)
Storage temperature range	<ul style="list-style-type: none">Less than 3 months: -20 to +45°C (-4 to 113°F)More than 3 months: 22-28°C (72-82°F)
Charging temperature range	0-40°C (32-104°F)
Maximum charging power	180 W
Maximum number of charging cycles	200

Vision positioning	
Velocity range	Below 8 m/s (26 ft./s) (2 m (6.6 ft.) above ground)
Altitude range	5-500 cm (2.0-200 in.)
Operating environment	Brightly lit (lux > 15) patterned surfaces
Operating range	0-300 cm (0-120 in.)

DJI GO app	
Mobile device system requirements	<ul style="list-style-type: none">iOS version 7.1 or laterAndroid version 4.1.2 or later
Supported mobile devices	<ul style="list-style-type: none">iPhone 6 PlusiPhone 6iPhone 5SiPad Air 2iPad Mini 3iPad AiriPad Mini 2iPad 4Samsung Note 3Samsung S5Sony Z3 EXPERIA <p>NOTE: It is recommended that you use a tablet for the best experience</p>

Documentation and firmware	
Download link	http://tinyurl.com/z8esgtc

Warranty	
Warranty	http://www.dji.com/service#warranty_period

Global trade data	
HS Code	<ul style="list-style-type: none">8802200015 (Inspire 1)9032896085 (Zenmuse XT)
ECCN code	6A993.a (Zenmuse XT)

Shipping information	
Packaging type	Cardboard box



FLIR Aerial Utility Kit, R (9 Hz)

P/N: 76605-1505

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Customer support

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Shipping information

List of contents

- Inspire T600 aircraft
- Zenmuse XT thermal camera with stabilized gimbal
- Zenmuse X3 video camera with stabilized gimbal
- Controller (x2, one for the operator and one for the pilot)
- Battery (x2)
- FLIR Tools+
- iPad Mini 4 (128 GB, Wi-Fi and cellular) (x2)
- Monitor hoods (x2)
- Rugged carry case (x2)
- Landing Pad

FLIR X6xxx series

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P/N: 80601-0101

Revision

42917

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Website

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Customer support

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Detector/image	
Sensor material	MCT
Image size	640 × 512
Pitch	15 μm
Aperture	f/4
Windowing	320 × 256/160 × 128
Arbitrary size windowing (down to)	132 × 8
Arbitrary size windowing (steps)	Horizontal: ≥32, steps of 4 pixels. Vertical: ≥8, steps of 1 pixel
Maximum frame rate (full frame)	146 Hz
Maximum frame rate ¹	<ul style="list-style-type: none"> • 146 Hz @ 640 × 512 IWR • 528 Hz @ 320 × 256/IWR • 1510 Hz @ 160 × 128/IWR • 3699 Hz @ 132 × 8/IWR
Integration time range	80 ns to 20 000 μs
Integration time step	80 ns
Integration time mode	IWR/ITR
Shutter	No
Digital output	GigE/Camlink base
Cooler type	Closed-cycle (rotary) Stirling cooler
Cooling temperature	80 K
Operability	>99%

Mechanical/environmental	
Dimensions(L × W × H) (without lens)	<ul style="list-style-type: none"> • 233 mm × 150 mm × 178 mm (9.17 in. × 5.91 in. × 7.01 in.) (without LCD) • 233 mm × 150 mm × 221 mm (9.17 in. × 5.91 in. × 8.70 in.) (with LCD)
Weight without lens	<ul style="list-style-type: none"> • 4.350 kg (9.590 lb.) without LCD • 4.800 kg (10.580 lb.) with LCD
Power supply	24 V DC
Power consumption (cooldown/stab)	48 W/35 W
Operational temperature	-20°C/+50°C (-4°F/122°F)
Shock	Operational 6 ms, 25g, IEC 68-2-29

1. Some cameras also have a minimum frame rate, unspecified. Contact your FLIR representative for more information.



FLIR X6520sc

P/N: 80601-0101

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42917

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2017-05-30 13:48 UTC+1

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Mechanical/environmental	
Vibration	Operational 2g, IEC 68-2-26

Radiometry	
Spectral range	3.7–4.8 μm
Thermal sensitivity/NETD	<25 mK
CNUC/Hypercal	Yes
Temperature measurement accuracy	$\pm 1^\circ\text{C}$ (1.8°F) or $\pm 1\%$
Maximum temperature without filter	150°C (300°F)
Filter wheel	4 slots for 1 in. filter up to 2.5 mm thick
Filter holding	Bayonet

Timings and signals	
Optical interface	USL bayonet
SYNC IN	TTL, singled ended, BNC >300 ns pulse width
SYNC IN jitter	20 ns
SYNC IN active edge	Falling or rising edge
Analog signals	1 x (0/+10V), BNC
TRIGGER IN	TTL, singled ended, BNC >300 ns pulse width
Video output	DVI 1080p30
Waveform generator	Sinus/triangle/square TTL 0–5 V. Frequency: 0.001 Hz to 250 kHz

GigE	
GigE Vision	Yes
Genicam	On specific configuration only

Camera link	
Connector type	1 x Mini MDR26
Wi-Fi type	802.11g

Lenses	
Available optics	<ul style="list-style-type: none">• L1008 MW 50 2.0 640 x 512• L1009 MW 25 2.0 640 x 512• L1019 MW 100 2.0 640 x 512• L1114 MW Close up X3

Supplies & accessories:

- T198970; Lens MW 1x f/3.0 WD30

P/N: 66601-0101

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Website

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Detector/image	
Detector type	Focal plane array (FPA)
Sensor material	MCT
IR resolution	640 × 512
Detector pitch	15 μm
f-number	f/3
Optical interface	USL bayonet
Lens identification	Automatic
Windowing	320 × 256/160 × 128
Arbitrary size windowing (down to)	132 × 8
Arbitrary size windowing (steps)	Horizontal: ≥132, steps of 4 pixels Vertical: ≥8, steps of 1 pixel
Maximum image frequency (full frame)	146 Hz
Maximum image frequency	3690 Hz
Maximum frame rate ¹	146 Hz @ 640 × 512/IWR 528 Hz @ 320 × 256/IWR 1510 Hz @ 160 × 128/IWR 3690 Hz @ 132 × 8/IWR
Integration time range	80 ns–20 000 μs
Integration time step	80 ns
Integration time mode	IWR/ITR
Digital output	GigE/Camlink base
Cooler type	Closed-cycle (rotary) Stirling cooler
Cooling temperature	80 K
Operability	>99%

Physical data	
Size (L × W × H)	233 mm × 150 mm × 178 mm (9.17" × 5.91" × 7.01") (without LCD) 233 mm × 150 mm × 178 mm (9.17" × 5.91" × 8.71") (with LCD)
Weight without lens	4.350 kg (9.590 lb.) without LCD 4.800 kg (10.580 lb.) with LCD
Tripod mounting	UNC ¼"-20

1. Some cameras also have a minimum frame rate, unspecified. Contact your FLIR representative for more information.



FLIR X6530sc

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Website

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Customer support

<http://support.flir.com>

Power system	
Power supply	24 V DC
Power consumption (cooldown/stab)	48 W/35 W

Environmental data	
Operating temperature range	-20°C/+50°C (-4°F/122°F) (-4°F/122°F)
Shock	Operational 25g, IEC 68-2-29
Vibration	Operational 2g, IEC 68-2-26
Encapsulation	IP 54 (IEC 60529)

Radiometry/measurement	
Spectral range	1.5–5.5 µm
Thermal sensitivity/NETD	<25 mK (18 mK typical)
CNUCTM/HypercalTM	Yes
CLUT/extended linear response	No
Temperature measurement accuracy	±1°C (1.8°F) or ±1%
Maximum temperature without filter	150°C (302°F) (302°F)
Well capacity (e-)	6.36 Me- (ITR) 4.99 Me- (IWR)
Filter wheel	4 slots for 1" filter up to 2.5 mm thick
Filter holding	Screw-in holder

Timings and signals	
SYNC IN	TTL, singled ended, BNC >300 ns pulse width
SYNC IN jitter	20 ns
SYNC IN active edge	Falling or rising edge
Delay between SYNC IN and integration	
Delay between SYNC IN and top frame	
Analog signals	1 × (0/+10 V), BNC
TRIGGER IN	TTL, singled ended, BNC >300 ns pulse width
Video output	DVI 1080p30
Waveform generator	Sinus/triangle/square TTL 0–5 V Frequency: 0.001 Hz to 250 kHz

Ethernet	
GigE Vision	Yes

Camera link	
Connector type	1 × Mini MDR26
Tap number	1 (A/B)
Bit depth	16 bpp

Radio	
Wi-Fi	Standard: 802.11 b/g
	Frequency range: 2412–2462 MHz
	Maximum output power: 15 dBm



FLIR X6530sc

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Radio	
Antenna	Internal

Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558008072
UPC-12	845188008420
Country of origin	Sweden

Lenses	
Available optic 1	L1009 MW 25 2.0 640 × 512
Available optic 2	L1008 MW 50 2.0 640 × 512
Available optic 3	L1019 MW 100 2.0 640 × 512
Available optic 4	L1118 MW 200 2.0 640 x 512
Available optic 5	L1114 MW Close up x3
Available optic 6	L1209 MW Close up x5
Available optic 7	L1202 MW Close up x1 wd 30cm
Available optic 8	
Available optic 9	
Available optic 10	
Available optic 11	
Available optic 12	
Available optic 13	

Supplies & accessories:

- T199084; Lens BB 100mm F/3 Bayonet (L1207)
- T199057; Lens BB 200mm F/3 Bayonet (L1208)
- T199080; Lens BB 27mm F/3 Bayonet (L1205)
- T199082; Lens BB 50mm F/3 Bayonet (L1206)
- T198970; Lens MW 1x f/3.0 WD30
- T128379ACC; FLIR Platinum SDK

P/N: 66602-0202

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Website

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Customer support

<http://support.flir.com>



Detector/image	
Detector type	Focal plane array (FPA)
Sensor material	MCT
IR resolution	640 × 512
Detector pitch	15 μm
f-number	f/3
Optical interface	M80 thread
Lens identification	N/A
Windowing	320 × 256/160 × 128
Arbitrary size windowing (down to)	132 × 8
Arbitrary size windowing (steps)	Horizontal: ≥132, steps of 4 pixels Vertical: ≥8, steps of 1 pixel
Maximum image frequency (full frame)	146 Hz
Maximum image frequency	3690 Hz
Maximum frame rate ¹	<ul style="list-style-type: none"> • 146 Hz @ 640 × 512 IWR • 528 Hz @ 320 × 256 IWR • 1510 Hz @ 160 × 128 IWR • 3699 Hz @ 132 × 8 IWR
Integration time range	80 ns–20 000 μs
Integration time step	80 ns
Integration time mode	IWR/ITR
Digital output	GigE/Camlink base
Cooler type	Closed-cycle (rotary) Stirling cooler
Cooling temperature	80 K
Operability	>99%

Physical data	
Size (L × W × H)	<ul style="list-style-type: none"> • 233 mm × 150 mm × 178 mm (9.17" × 5.91" × 7.01") (without LCD) • 233 mm × 150 mm × 178 mm (9.17" × 5.91" × 8.71") (with LCD)
Weight without lens	4.350 kg (9.590 lb.) without LCD 4.800 kg (10.580 lb.) with LCD
Tripod mounting	UNC ¼"-20

1. Some cameras also have a minimum frame rate, unspecified. Contact your FLIR representative for more information.



FLIR X6530sc M80

P/N: 66602-0202

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Power system	
Power supply	24 V DC
Power consumption (cooldown/stab)	48 W/35 W

Environmental data	
Operating temperature range	-20°C/+50°C (-4°F/122°F) (-4°F/122°F)
Shock	Operational 25g, IEC 68-2-29
Vibration	Operational 2g, IEC 68-2-26
Encapsulation	IP 54 (IEC 60529)

Radiometry/measurement	
Spectral range	1.5–5.5 µm
Thermal sensitivity/NETD	<25 mK (18 mK typical)
CNUCTM/HypercalTM	Yes
CLUT/extended linear response	No
Temperature measurement accuracy	±1°C (1.8°F) or ±1%
Maximum temperature without filter	150°C (302°F)
Well capacity (e-)	6.36 Me- (ITR) 4.99 Me- (IWR)
Filter wheel	4 slots for 1" filter up to 2.5 mm thick
Filter holding	Screw-in holder

Timings and signals	
SYNC IN	TTL, singled ended, BNC >300 ns pulse width
SYNC IN jitter	20 ns
SYNC IN active edge	Falling or rising edge
Delay between SYNC IN and integration	
Delay between SYNC IN and top frame	
Analog signals	1 × (0/+10 V), BNC
TRIGGER IN	TTL, singled ended, BNC >300 ns pulse width
Video output	DVI 1080p30
Waveform generator	Sinus/triangle/square TTL 0–5 V Frequency: 0.001 Hz to 250 kHz

Ethernet	
GigE Vision	Yes

Camera link	
Connector type	1 × Mini MDR26
Tap number	1 (A/B)
Bit depth	16 bpp

Radio	
Wi-Fi	802.11g
	Frequency range: 2412–2462 MHz
	Maximum output power: 15 dBm



FLIR X6530sc M80

P/N: 66602-0202

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Radio	
Antenna	Internal

Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558008089
UPC-12	845188008437
Country of origin	Sweden

Lenses	
Available optic 1	L0315 12 mm f/2
Available optic 2	L0116 25 mm f/2
Available optic 3	L0106 50 mm f/2
Available optic 4	L0118 100 mm f/2
Available optic 5	L0804 200 mm f/2
Available optic 6	L0120 Close up x1 f/2
Available optic 7	L0120E Close up x3 f/2
Available optic 8	L0905 Close up x1 wd 30cm
Available optic 9	L0709T 27 mm BB f/3
Available optic 10	L0608T 50 mm BB f/3
Available optic 11	L0604T 100 mm BB f/3
Available optic 12	L0701 200 mm BB f/3
Available optic 13	

Supplies & accessories:

- T198970; Lens MW 1x f/3.0 WD30
- T128379ACC; FLIR Platinum SDK

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Website

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Customer support

<http://support.flir.com>



Detector/image	
Detector type	Focal plane array (FPA)
Sensor material	InSb
IR resolution	640 × 512
Detector pitch	15 μm
f-number	f/3
Optical interface	USL bayonet
Lens identification	Automatic
Windowing	320 × 256/160 × 128
Arbitrary size windowing (down to)	64 × 8
Arbitrary size windowing (steps)	Horizontal: ≥64, steps of 16 pixels Vertical: ≥8, steps of 4 pixels
Maximum image frequency (full frame)	126 Hz
Maximum image frequency	4011 Hz
Maximum frame rate ¹	<ul style="list-style-type: none"> • 126 Hz @ 640 × 512 IWR • 410 Hz @ 320 × 256 IWR • 1087 Hz @ 160 × 128 IWR • 4011 Hz @ 64 × 8 IWR
Integration time range	160 ns–20 000 μs
Integration time step	160 ns
Integration time mode	IWR/ITR
Digital output	GigE/Camlink base
Cooler type	Closed-cycle (rotary) Stirling cooler
Cooling temperature	77 K
Operability	>99.5%

Physical data	
Size (L × W × H)	<ul style="list-style-type: none"> • 233 mm × 150 mm × 178 mm (9.17" × 5.91" × 7.01") (without LCD) • 233 mm × 150 mm × 178 mm (9.17" × 5.91" × 8.71") (with LCD)
Weight without lens	4.350 kg (9.590 lb.) without LCD 4.800 kg (10.580 lb.) with LCD
Tripod mounting	UNC ¼"-20

1. Some cameras also have a minimum frame rate, unspecified. Contact your FLIR representative for more information.



FLIR X6540sc

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Power system	
Power supply	24 V DC
Power consumption (cooldown/stab)	48 W/35 W

Environmental data	
Operating temperature range	-20°C/+50°C (-4°F/122°F) (-4°F/122°F)
Shock	Operational 25g, IEC 68-2-29
Vibration	Operational 2g, IEC 68-2-26
Encapsulation	IP 54 (IEC 60529)

Radiometry/measurement	
Spectral range	1.5–5.5 µm
Thermal sensitivity/NETD	<25 mK (18 mK typical)
CNUCTM/HypercalTM	Yes
CLUT/extended linear response	Yes
Temperature measurement accuracy	±1°C (1.8°F) or ±1%
Maximum temperature without filter	300°C (572°F)
Well capacity (e-)	6.5 Me-
Filter wheel	4 slots for 1" filter up to 2.5 mm thick
Filter holding	Screw-in holder

Timings and signals	
SYNC IN	TTL, singled ended, BNC >300 ns pulse width
SYNC IN jitter	20 ns
SYNC IN active edge	Falling or rising edge
Delay between SYNC IN and integration	690 ns in ITR
Delay between SYNC IN and top frame	
Analog signals	1 × (0/+10 V), BNC
TRIGGER IN	TTL, singled ended, BNC >300 ns pulse width
Video output	DVI 1080p30
Waveform generator	Sinus/triangle/square TTL 0–5 V Frequency: 0.001 Hz to 250 kHz

Ethernet	
GigE Vision	Yes

Camera link	
Connector type	1 × Mini MDR26
Tap number	1 (A/B)
Bit depth	16 bpp

Radio	
Wi-Fi	802.11g
	Frequency range: 2412–2462 MHz
	Maximum output power: 15 dBm



FLIR X6540sc

P/N: 66701-0101

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Radio	
Antenna	Internal

Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558008096
UPC-12	845188008444
Country of origin	Sweden

Lenses	
Available optic 1	L1009 MW 25 2.0 640 × 512
Available optic 2	L1008 MW 50 2.0 640 × 512
Available optic 3	L1019 MW 100 2.0 640 × 512
Available optic 4	L1118 MW 200 2.0 640 × 512
Available optic 5	L1114 MW Close up ×3
Available optic 6	L1209 MW Close up ×5
Available optic 7	L1202 MW Close up x1 wd 30cm
Available optic 8	
Available optic 9	
Available optic 10	
Available optic 11	
Available optic 12	
Available optic 13	

Supplies & accessories:

- T199084; Lens BB 100mm F/3 Bayonet (L1207)
- T199057; Lens BB 200mm F/3 Bayonet (L1208)
- T199080; Lens BB 27mm F/3 Bayonet (L1205)
- T199082; Lens BB 50mm F/3 Bayonet (L1206)
- T198970; Lens MW 1x f/3.0 WD30
- T128379ACC; FLIR Platinum SDK

P/N: 66702-0202

Revision

43497

Last modified

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Detector/image	
Detector type	Focal plane array (FPA)
Sensor material	InSb
IR resolution	640 × 512
Detector pitch	15 μm
f-number	f/3
Optical interface	M80 thread
Lens identification	N/A
Windowing	320 × 256/160 × 128
Arbitrary size windowing (down to)	64 × 8
Arbitrary size windowing (steps)	Horizontal: ≥64, steps of 16 pixels Vertical: ≥8, steps of 4 pixels
Maximum image frequency (full frame)	126 Hz
Maximum image frequency	4011 Hz
Maximum frame rate ¹	<ul style="list-style-type: none"> • 126 Hz @ 640 × 512 IWR • 410 Hz @ 320 × 256 IWR • 1087 Hz @ 160 × 128 IWR • 4011 Hz @ 64 × 8 IWR
Integration time range	160 ns–20 000 μs
Integration time step	160 ns
Integration time mode	IWR/ITR
Digital output	GigE/Camlink base
Cooler type	Closed-cycle (rotary) Stirling cooler
Cooling temperature	77 K
Operability	>99.5%

Physical data	
Size (L × W × H)	<ul style="list-style-type: none"> • 233 mm × 150 mm × 178 mm (9.17" × 5.91" × 7.01") (without LCD) • 233 mm × 150 mm × 178 mm (9.17" × 5.91" × 8.71") (with LCD)
Weight without lens	4.350 kg (9.590 lb.) without LCD 4.800 kg (10.580 lb.) with LCD
Tripod mounting	UNC ¼"-20

1. Some cameras also have a minimum frame rate, unspecified. Contact your FLIR representative for more information.



FLIR X6540sc M80

P/N: 66702-0202

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Website

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Customer support

<http://support.flir.com>

Power system	
Power supply	24 V DC
Power consumption (cooldown/stab)	48 W/35 W

Environmental data	
Operating temperature range	-20°C/+50°C (-4°F/122°F)
Shock	Operational 25g, IEC 68-2-29
Vibration	Operational 2g, IEC 68-2-26
Encapsulation	IP 54 (IEC 60529)

Radiometry/measurement	
Spectral range	1.5–5.5 µm
Thermal sensitivity/NETD	<25 mK (18 mK typical)
CNUCTM/HypercalTM	Yes
CLUT/extended linear response	Yes
Temperature measurement accuracy	±1°C (1.8°F) or ±1%
Maximum temperature without filter	300°C (572°F)
Well capacity (e-)	6.5 Me-
Filter wheel	4 slots for 1" filter up to 2.5 mm thick
Filter holding	Screw-in holder

Timings and signals	
SYNC IN	TTL, singled ended, BNC >300 ns pulse width
SYNC IN jitter	20 ns
SYNC IN active edge	Falling or rising edge
Delay between SYNC IN and integration	690 ns in ITR
Delay between SYNC IN and top frame	
Analog signals	1 × (0/+10 V), BNC
TRIGGER IN	TTL, singled ended, BNC >300 ns pulse width
Video output	DVI 1080p30
Waveform generator	Sinus/triangle/square TTL 0–5 V Frequency: 0.001 Hz to 250 kHz

Ethernet	
GigE Vision	Yes

Camera link	
Connector type	1 × Mini MDR26
Tap number	1 (A/B)
Bit depth	16 bpp

Radio	
Wi-Fi	802.11g
	Frequency range: 2412–2462 MHz
	Maximum output power: 15 dBm



FLIR X6540sc M80

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Radio	
Antenna	Internal

Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558008102
UPC-12	845188008451
Country of origin	Sweden

Lenses	
Available optic 1	L0315 12 mm f/2
Available optic 2	L0116 25 mm f/2
Available optic 3	L0106 50 mm f/2
Available optic 4	L0118 100 mm f/2
Available optic 5	L0804 200 mm f/2
Available optic 6	L0120 Close up x1 f/2
Available optic 7	L0120E Close up x3 f/2
Available optic 8	L0905 Close up x1 wd 30cm
Available optic 9	L0709T 27 mm BB f/3
Available optic 10	L0608T 50 mm BB f/3
Available optic 11	L0604T 100 mm BB f/3
Available optic 12	L0701 200 mm BB f/3
Available optic 13	

Supplies & accessories:

- T198970; Lens MW 1x f/3.0 WD30
- T128379ACC; FLIR Platinum SDK

P/N: 79402-0202

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Website

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Customer support

<http://support.flir.com>



Detector/image	
Sensor material	MCT
Image size	640 × 512
Pitch	15 μm
Aperture	f/2
Windowing	320 × 256/160 × 128
Arbitrary size windowing (down to)	160 × 1
Arbitrary size windowing (steps)	Horizontal: ≥4, steps of 4 pixels. Vertical: ≥1, steps of 1 pixel
Maximum frame rate (full frame)	234 Hz
Maximum frame rate ¹	<ul style="list-style-type: none"> • 233 Hz @ 640 × 512 @ 10 μs/ITR • 871 Hz @ 320 × 256 @ 10 μs/ITR • 2872 Hz @ 160 × 128 @ 10 μs/ITR • 14550 Hz @ 160 × 1 @ 10 μs/ITR
Integration time range	10–20 000 μs
Integration time step	12.5 ns
Integration time mode	ITR
Shutter	No
Digital output	GigE/Camlink base
Cooler type	Closed-cycle (rotary) Stirling cooler
Cooling temperature	80 K
Operability	>99%

Mechanical/environmental	
Dimensions (L × W × H) (without lens)	<ul style="list-style-type: none"> • 233 mm × 150 mm × 178 mm (9.17 in. × 5.91 in. × 7.01 in.) (without LCD) • 233 mm × 150 mm × 221 mm (9.17 in. × 5.91 in. × 8.70 in.) (with LCD)
Weight without lens	<ul style="list-style-type: none"> • 4.550 kg (10.030 lb.) without LCD • 5.000 kg (11.020 lb.) with LCD
Power supply	24 V DC
Power consumption (cooldown/stab)	48 W/35 W
Operational temperature	–20°C/+50°C (–4°F/122°F)
Shock	Operational 6 ms, 25g, IEC 68-2-29

1. Some cameras also have a minimum frame rate, unspecified. Contact your FLIR representative for more information.



FLIR X6570sc

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Mechanical/environmental	
Vibration	Operational 2g, IEC 68-2-26

Radiometry	
Spectral band	Long-wave infrared
Spectral range	7.7–9.3 μm
Thermal sensitivity/NETD	<25 mK (20 mK typical)
CNUC/Hypercal	Yes
Temperature measurement accuracy	$\pm 1^\circ\text{C}$ (1.8°F) or $\pm 1\%$
Maximum temperature without filter	150°C (302°F)
Filter wheel	4 slots for 1 in. filter up to 2.5 mm thick
Filter holding	Bayonet

Timings and signals	
Optical interface	M80
SYNC IN	TTL, singled ended, BNC >300 ns pulse width
SYNC IN Jitter	12.5 ns
SYNC IN active edge	Falling or rising edge
Analog signals	1 x (0/+10 V), BNC
TRIGGER IN	TTL, singled ended, BNC >300 ns pulse width
Video output	DVI 1080p30
Waveform generator	Sinus/triangle/square TTL 0–5 V. Frequency: 0.001 Hz to 250 kHz

GigE	
GigE Vision	Yes
Genicam	On specific configuration only

Camera link	
Connector type	1 x Mini MDR26
Wi-Fi type	802.11g

Lenses	
Available optics	<ul style="list-style-type: none">• L0306—12 mm f/2• L0324—25 mm f/2• L0302—50 mm f/2• L0201—100 mm f/2• L0113TV—200 mm f/F2• L0215—G1 f/2

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Website

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Detector/image	
Detector type	Digital focal plane array (FPA)
Sensor material	InSb
IR resolution	640 × 512
Detector pitch	15 μm
f-number	f/3
Optical interface	USL bayonet
Lens identification	Automatic
Windowing	320 × 256/160 × 128
Arbitrary size windowing (down to)	64 × 8
Arbitrary size windowing (steps)	Horizontal: ≥64, steps of 2 pixels Vertical: ≥8, steps of 4 pixels
Maximum image frequency (full frame)	355 Hz ¹
Maximum image frequency	4700 Hz ²
Maximum frame rate ³	<ul style="list-style-type: none"> • 355 Hz @ 640 × 512⁴ • 670 Hz @ 320 × 256⁵ • 1205 Hz @ 160 × 128⁶ • 4700 Hz @ 64 × 8⁷
Integration time range	500 ns–20 000 μs ⁸
Integration time step	12.5 ns
Integration time mode	IWR/ITR
Digital output	GigE/Camlink base—medium
Cooler type	Closed-cycle (rotary) Stirling cooler
Cooling temperature	77 K
Operability	>99.5%

1. Frame rates are achieved with Camlink Medium mode, ITR integration mode, 500 ns integration time.
2. Frame rates are achieved with Camlink Medium mode, ITR integration mode, 500 ns integration time.
3. Some cameras also have a minimum frame rate, unspecified. Contact your FLIR representative for more information.
4. Frame rates are achieved with Camlink Medium mode, ITR integration mode, 500 ns integration time.
5. Frame rates are achieved with Camlink Medium mode, ITR integration mode, 500 ns integration time.
6. Frame rates are achieved with Camlink Medium mode, ITR integration mode, 500 ns integration time.
7. Frame rates are achieved with Camlink Medium mode, ITR integration mode, 500 ns integration time.
8. These values are camera min./max. values, which may be higher and/or lower than the advisable integration time range.



FLIR X6580sc

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Website

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Customer support

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Physical data	
Size (L x W x H)	<ul style="list-style-type: none">• 233 mm x 150 mm x 178 mm (9.17" x 5.91" x 7.01") (without LCD)• 233 mm x 150 mm x 178 mm (9.17" x 5.91" x 8.71") (with LCD)
Weight without lens	<ul style="list-style-type: none">• 4.350 kg (9.590 lb.) without LCD• 4.800 kg (10.580 lb.) with LCD
Tripod mounting	UNC ¼"-20

Power system	
Power supply	24 V DC
Power consumption (cooldown/stab)	48 W/35 W

Environmental data	
Operating temperature range	-20°C/+50°C (-4°F/122°F)
Shock	Operational 25g, IEC 68-2-29
Vibration	Operational 2g, IEC 68-2-26
Encapsulation	IP 54 (IEC 60529)

Radiometry/measurement	
Spectral range	1.5–5.5 µm
Thermal sensitivity/NETD	<25 mK (20 mK typical)
CNUCTM/HypercalTM	Yes
CLUT/extended linear response	Yes
Temperature measurement accuracy	±1°C (1.8°F) or ±1%
Maximum temperature without filter	300°C (572°F)
Well capacity (e-)	5.8 Me-
Filter wheel	4 slots for 1" filter up to 2.5 mm thick
Filter holding	Screw-in holder

Timings and signals	
SYNC IN	TTL, singled ended, BNC >300 ns pulse width
SYNC IN jitter	12.5 ns
SYNC IN active edge	Falling or rising edge
Analog signals	1 x (0/+10 V), BNC
TRIGGER IN	TTL, singled ended, BNC >300 ns pulse width
Video output	DVI 1080p30
Waveform generator	Sinus/triangle/square TTL 0–5 V Frequency: 0.001 Hz to 250 kHz

Ethernet	
GigE Vision	Yes

Camera link	
Connector type	2 x Mini MDR26
Tap number	2 (A/B/C/D)
Bit depth	16 bpp



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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Radio	
Wi-Fi ¹	802.11g
	Frequency range: 2412–2462 MHz
	Maximum output power: 15 dBm
Antenna	Internal

Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558008119
UPC-12	845188008468
Country of origin	Sweden

Lenses	
Available optics	<ul style="list-style-type: none">• L1009 MW 25 2.0 640 × 512• L1008 MW 50 2.0 640 × 512• L1019 MW 100 2.0 640 × 512• L1118 MW 200 2.0 640 × 512• L1114 MW Close up ×3• L1209 MW Close up ×5• L1202 MW Close up x1 wd 30cm

Supplies & accessories:

- T199084; Lens BB 100mm F/3 Bayonet (L1207)
- T199057; Lens BB 200mm F/3 Bayonet (L1208)
- T199080; Lens BB 27mm F/3 Bayonet (L1205)
- T199082; Lens BB 50mm F/3 Bayonet (L1206)
- T198970; Lens MW 1x f/3.0 WD30
- T128379ACC; FLIR Platinum SDK

1. May be disabled at time of purchase.

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Website

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Customer support

<http://support.flir.com>



Detector/image	
Detector type	Digital focal plane array (FPA)
Sensor material	InSb
IR resolution	640 × 512
Detector pitch	15 μm
f-number	f/3
Optical interface	M80 thread
Lens identification	N/A
Windowing	320 × 256/160 × 128
Arbitrary size windowing (down to)	2 × 2
Arbitrary size windowing (steps)	Horizontal: ≥2, steps of 2 pixels Vertical: ≥2, steps of 2 pixels
Maximum image frequency (full frame)	355 Hz
Maximum image frequency	4500 Hz
Maximum frame rate ¹	<ul style="list-style-type: none"> • 355 Hz @ 640 × 512 IWR • 670 Hz @ 320 × 256 IWR • 1205 Hz @ 160 × 128 IWR • 4500 Hz @ 320 × 8 IWR
Integration time range	500 ns–20 000 μs
Integration time step	12.5 ns
Integration time mode	IWR/ITR
Digital output	GigE/Camlink base—medium
Cooler type	Closed-cycle (rotary) Stirling cooler
Cooling temperature	77 K
Operability	>99.5%

Physical data	
Size (L × W × H)	<ul style="list-style-type: none"> • 233 mm × 150 mm × 178 mm (9.17" × 5.91" × 7.01") (without LCD) • 233 mm × 150 mm × 178 mm (9.17" × 5.91" × 8.71") (with LCD)
Weight without lens	4.350 kg (9.590 lb.) without LCD 4.800 kg (10.580 lb.) with LCD
Tripod mounting	UNC ¼"-20

1. Some cameras also have a minimum frame rate, unspecified. Contact your FLIR representative for more information.



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Power system	
Power supply	24 V DC
Power consumption (cooldown/stab)	48 W/35 W

Environmental data	
Operating temperature range	-20°C/+50°C (-4°F/122°F)
Shock	Operational 25g, IEC 68-2-29
Vibration	Operational 2g, IEC 68-2-26
Encapsulation	IP 54 (IEC 60529)

Radiometry/measurement	
Spectral range	1.5–5.5 μm
Thermal sensitivity/NETD	<25 mK (20 mK typical)
CNUCTM/HypercalTM	Yes
CLUT/extended linear response	Yes
Temperature measurement accuracy	$\pm 1^\circ\text{C}$ (1.8°F) or $\pm 1\%$
Maximum temperature without filter	300°C (572°F)
Well capacity (e-)	5.8 Me-
Filter wheel	4 slots for 1" filter up to 2.5 mm thick
Filter holding	Screw-in holder

Timings and signals	
SYNC IN	TTL, singled ended, BNC >300 ns pulse width
SYNC IN jitter	12.5 ns
SYNC IN active edge	Falling or rising edge
Delay between SYNC IN and integration	
Delay between SYNC IN and top frame	
Analog signals	1 \times (0/+10 V), BNC
TRIGGER IN	TTL, singled ended, BNC >300 ns pulse width
Video output	DVI 1080p30
Waveform generator	Sinus/triangle/square TTL 0–5 V Frequency: 0.001 Hz to 250 kHz

Ethernet	
GigE Vision	Yes

Camera link	
Connector type	2 \times Mini MDR26
Tap number	2 (A/B/C/D)
Bit depth	16 bpp

Radio	
Wi-Fi	802.11g
	Frequency range: 2412–2462 MHz
	Maximum output power: 15 dBm



FLIR X6580sc M80

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Radio	
Antenna	Internal

Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558008126
UPC-12	845188008475
Country of origin	Sweden

Lenses	
Available optic 1	L0315 12 mm f/2
Available optic 2	L0116 25 mm f/2
Available optic 3	L0106 50 mm f/2
Available optic 4	L0118 100 mm f/2
Available optic 5	L0804 200 mm f/2
Available optic 6	L0120 Close up x1 f/2
Available optic 7	L0120E Close up x3 f/2
Available optic 8	L0905 Close up x1 wd 30cm
Available optic 9	L0709T 27 mm BB f/3
Available optic 10	L0608T 50 mm BB f/3
Available optic 11	L0604T 100 mm BB f/3
Available optic 12	L0701 200 mm BB f/3
Available optic 13	

Supplies & accessories:

- T198970; Lens MW 1x f/3.0 WD30
- T128379ACC; FLIR Platinum SDK

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Detector/image	
Detector type	Digital focal plane array
Sensor material	InSb
IR resolution	640 × 512
Detector pitch	15 μm
f number	f/3
Optical interface	USL bayonet
Lens identification	Automatic
Windowing	320 × 256/160 × 128
Arbitrary size windowing (down to)	64 × 8
Arbitrary size windowing (steps)	Horizontal: ≥64, steps of 2 pixels. Vertical: ≥8, steps of 4 pixels
Maximum image frequency (full frame)	303 Hz ¹
Maximum image frequency	4400 Hz ²
Maximum frame rate ³	<ul style="list-style-type: none"> • 303 Hz @ 640 × 512⁴ • 574 Hz @ 320 × 256⁵ • 1045 Hz @ 160 × 128⁶ • 4400 Hz @ 64 × 8⁷
Integration time range	500 ns–20 000 μs ⁸
Integration time step	12.5 ns
Integration time mode	IWR/ITR
Digital output	GigE/Camlink base—medium
Cooler type	Closed-cycle (rotary) Stirling cooler
Cooling temperature	77 K
Operability	>99.5%

1. Frame rates are achieved with Camlink Medium mode, ITR integration mode, 500 ns integration time.
2. Frame rates are achieved with Camlink Medium mode, ITR integration mode, 500 ns integration time.
3. Some cameras also have a minimum frame rate, unspecified. Contact your FLIR representative for more information.
4. Frame rates are achieved with Camlink Medium mode, ITR integration mode, 500 ns integration time.
5. Frame rates are achieved with Camlink Medium mode, ITR integration mode, 500 ns integration time.
6. Frame rates are achieved with Camlink Medium mode, ITR integration mode, 500 ns integration time.
7. Frame rates are achieved with Camlink Medium mode, ITR integration mode, 500 ns integration time.
8. These values are camera min./max. values, which may be higher and/or lower than the advisable integration time range.

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Physical data	
Size (L x W x H)	<ul style="list-style-type: none"> 233 mm x 150 mm x 178 mm (9.17 in. x 5.91 in. x 7.01 in.) (without LCD) 233 mm x 150 mm x 178 mm (9.17 in. x 5.91 in. x 8.71 in.) (with LCD)
Weight without lens	<ul style="list-style-type: none"> 4.350 kg (9.590 lb.) without LCD 4.800 kg (10.580 lb.) with LCD
Tripod mounting	UNC ¼-20

Power system	
Power supply	24 V DC
Power consumption (cooldown/stab)	48 W/35 W

Environmental data	
Operating temperature range	-20°C/+50°C (-4°F/122°F)
Shock	Operational 25g, IEC 68-2-29
Vibration	Operational 2g, IEC 68-2-26
Encapsulation	IP 54 (IEC 60529)

Radiometry/measurement	
Spectral range	1.5–5.5 µm
Thermal sensitivity/NETD	<25 mK (20 mK typical)
CNUC/Hypercal	Yes
CLUT/extended linear response	Yes
Temperature measurement accuracy	±1°C (1.8°F) or ±1%
Maximum temperature without filter	300°C (572°F)
Well capacity	5.8 Me ⁻
Filter wheel	4 slots for 1 in. filter up to 2.5 mm thick
Filter holding	Screw-in holder

Timings and signals	
SYNC IN	TTL, singled ended, BNC >300 ns pulse width
SYNC IN jitter	12.5 ns
SYNC IN active edge	Falling or rising edge
Analog signals	1 x (0/+10 V), BNC
TRIGGER IN	TTL, singled ended, BNC >300 ns pulse width
Video output	DVI 1080p30
Waveform generator	Sinus/triangle/square TTL 0–5 V. Frequency: 0.001 Hz to 250 kHz

Ethernet	
GigE Vision	Yes

Camera link	
Connector type	2 x Mini MDR26
Tap number	2 (A/B/C/D)
Bit depth	16 bpp



FLIR X6581sc

P/N: 66801-0201

Revision

43495

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2017-06-26 12:28 UTC+1

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Radio	
Wi-Fi ¹	802.11g
	Frequency range: 2412–2462 MHz
	Maximum output power: 15 dBm
Antenna	Internal

Lenses	
Available optics	<ul style="list-style-type: none">• L1009 MW 25 2.0 640 × 512• L1008 MW 50 2.0 640 × 512• L1019 MW 100 2.0 640 × 512• L1118 MW 200 2.0 640 × 512• L1114 MW Close up ×3• L1209 MW Close up ×5• L1202 MW Close up ×1 wd 30 cm

1. May be disabled at time of purchase.

P/N: 29420-200

Revision

47463

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2018-02-06 10:47 UTC+1

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Website

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Detector data	
Detector Type	FLIR Indium Antimonide (InSb)
Spectral Range	1.5 – 5.0 μm
Resolution	640 x 512
Detector Pitch	25 μm
Thermal Sensitivity/NETD	< 20 mK
Well Capacity	11.0 M electrons
Operability	> 99.8% (> 99.95% typical)
Sensor Cooling	Closed cycle rotary

Electronics	
Readout Type	Snapshot
Readout Modes	Asynchronous integrate while read Asynchronous integrate then read
Synchronization Modes	Genlock, Sync-in, Sync-out
Image Time Stamp	Internal IRIG-B decoder clock TSPI accurate time stamp
Integration Time	270 ns to 687 sec
Pixel Clock	355 MHz
Frame Rate (Full Window)	Programmable; 0.0015 Hz to 502 Hz
Subwindow Mode	Flexible windowing down to 64 x 4 (steps of 32 columns, 4 rows)
Dynamic Range	14-bit
On-Camera Image Storage	RAM (volatile): 16 GB, up to 26000 frames, full frame SSD (non-volatile): >4 TB
Radiometric Data Streaming	Simultaneous Gigabit Ethernet (GigE Vision), Camera Link, CoaXPress (CXP)
Standard Video	HDMI, SDI, NTSC, PAL
Command and Control	GigE, USB, RS-232, Camera Link, CXP (GenICam protocol supported over GigE or CXP)

Temperature Measurement	
Standard Temperature Range	-20°C to 350°C (-4°F to 662°F)
Optional Temperature Range	Up to 1,500°C (2,732°F), Up to 2,000°C (3,632°F), Up to 3,000°C (5,432°F)



FLIR X6800sc

P/N: 29420-200

Revision

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Temperature Measurement	
Accuracy	$\pm 1^{\circ}\text{C}$ or $\pm 1\%$ of reading: <ul style="list-style-type: none">• 0°C to $+3000^{\circ}\text{C}$ (25 mm, 50 mm, 100 mm lenses) $\pm 2^{\circ}\text{C}$ or $\pm 2\%$ of reading: <ul style="list-style-type: none">• -20°C to 0°C (25 mm, 50 mm, 100 mm lenses)

Optics	
Camera f/Number	f/2.5
Available Lenses (Uses FLIR HDC Optics)	25 mm, 50 mm, 100mm
Close-up Lenses/Microscopes	No microscopes available
Lens Interface	FLIR HDC (4-tab bayonet)
Focus	Manual
Filtering	4-position motorized filter wheel, standard 1-inch filters

Image/Video Presentation	
Palettes	Selectable 8-bit
Automatic Gain Control	Manual, Linear, Plateau equalization, ROI, DDE
Overlay	Customizable (IRIG-B, Date, Integration time, Internal temp, Frame rate, Sync mode, Cooler hours)
Video Modes	HD: 720p/50/59.9 Hz, 1080p/25/29.9 Hz, SD: NTSC, PAL
Digital Zoom	1x, 4x, 4:3

General	
Operating Temperature Range	-20°C to 50°C (-4°F to 122°F)
Shock/Vibration	40 g, 11 msec $\frac{1}{2}$ sine pulse/4.3 g RMS random vibration, all 3 axes
Power	24 VDC (< 50 W steady state)
Weight w/Handle, w/o Lens	6.35 kg (14 lbs)
Size (L x W x H) w/o Lens, Handle	249 x 158 x 147 mm (9.8 x 6.2 x 5.8 in.)
Mounting	<ul style="list-style-type: none">• 2 x $\frac{1}{4}$ in. -20• 1 x $\frac{3}{8}$ in. -16• 4 x #10-24• Side: 3x $\frac{1}{4}$ in. -20 (each side)

Supplies & accessories:

- 29425-100; Lens 1-5 μm 100 mm f/2.5 HDC Bayonet
- 29425-025; Lens 1-5 μm 25 mm f/2.5 HDC Bayonet
- 29425-050; Lens 1-5 μm 50 mm f/2.5 HDC Bayonet

P/N: 29420-201

Revision

47464

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Detector data	
Detector Type	FLIR Indium Antimonide (InSb)
Spectral Range	3.0 – 5.0 μm
Resolution	640 x 512
Detector Pitch	25 μm
Thermal Sensitivity/NETD	< 20 mK
Well Capacity	11.0 M electrons
Operability	> 99.8% (> 99.95% typical)
Sensor Cooling	Closed cycle rotary

Electronics	
Readout Type	Snapshot
Readout Modes	Asynchronous integrate while read Asynchronous integrate then read
Synchronization Modes	Genlock, Sync-in, Sync-out
Image Time Stamp	Internal IRIG-B decoder clock TSPI accurate time stamp
Integration Time	270 ns to 687 sec
Pixel Clock	355 MHz
Frame Rate (Full Window)	Programmable; 0.0015 Hz to 502 Hz
Subwindow Mode	Flexible windowing down to 64 x 4 (steps of 32 columns, 4 rows)
Dynamic Range	14-bit
On-Camera Image Storage	RAM (volatile): 16 GB, up to 26000 frames, full frame SSD (non-volatile): >4 TB
Radiometric Data Streaming	Simultaneous Gigabit Ethernet (GigE Vision), Camera Link, CoaXPress (CXP)
Standard Video	HDMI, SDI, NTSC, PAL
Command and Control	GigE, USB, RS-232, Camera Link, CXP (GenICam protocol supported over GigE or CXP)

Temperature Measurement	
Standard Temperature Range	-20°C to 350°C (-4°F to 662°F)
Optional Temperature Range	Up to 1,500°C (2,732°F), Up to 2,000°C (3,632°F), Up to 3,000°C (5,432°F)



FLIR X6801sc

P/N: 29420-201

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47464

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Temperature Measurement	
Accuracy	± 1°C or ± 1% of reading: <ul style="list-style-type: none"> 0°C to +3000°C (17 mm, 25 mm, 50 mm, 100 mm, 200 mm lenses)
	± 2°C or ± 2% of reading: <ul style="list-style-type: none"> -20°C to 0°C (17 mm, 25 mm, 50 mm, 100 mm, 200 mm lenses)

Optics	
Camera f/Number	f/2.5
Available Lenses (Uses FLIR HDC Optics)	17 mm, 25 mm, 50 mm, 100 mm, 200 mm
Close-up Lenses/Microscopes	1X, 4X
Lens Interface	FLIR HDC (4-tab bayonet)
Focus	Manual
Filtering	4-position motorized filter wheel, standard 1-inch filters

Image/Video Presentation	
Palettes	Selectable 8-bit
Automatic Gain Control	Manual, Linear, Plateau equalization, ROI, DDE
Overlay	Customizable (IRIG-B, Date, Integration time, Internal temp, Frame rate, Sync mode, Cooler hours)
Video Modes	HD: 720p/50/59.9 Hz, 1080p/25/29.9 Hz, SD: NTSC, PAL
Digital Zoom	1x, 4x, 4:3

General	
Operating Temperature Range	-20°C to 50°C (-4°F to 122°F)
Shock/Vibration	40 g, 11 msec ½ sine pulse/4.3 g RMS random vibration, all 3 axes
Power	24 VDC (< 50 W steady state)
Weight w/Handle, w/o Lens	6.35 kg (14 lbs)
Size (L x W x H) w/o Lens, Handle	249 x 158 x 147 mm (9.8 x 6.2 x 5.8 in.)
Mounting	<ul style="list-style-type: none"> 2 x ¼ in. -20 1 x 3/8 in. -16 4 x #10-24 Side: 3x ¼ in. -20 (each side)

Supplies & accessories:

- 4203499; Lens 3-5 um 100 mm f/2.5 HDC Bayonet
- 4205267; Lens 3-5 um 17 mm f/2.5 HDC Bayonet
- 4205268; Lens 3-5 um 200 mm f/2.5 HDC Bayonet
- 4203497; Lens 3-5 um 25 mm f/2.5 HDC Bayonet
- 4203498; Lens 3-5 um 50 mm f/2.5 HDC Bayonet
- 29425-001; Lens, 3-5 um, 1X microscope, f/4 HDC Bayonet
- 29425-004; Lens, 3-5 um, 4X microscope, f/4 HDC Bayonet

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Detector data	
Detector Type	FLIR Indium Antimonide (InSb)
Spectral Range	1.5 – 5.0 μm
Resolution	640 x 512
Detector Pitch	25 μm
Thermal Sensitivity/NETD	< 20 mK
Well Capacity	11.0 M electrons
Operability	> 99.8% (> 99.95% typical)
Sensor Cooling	Closed cycle rotary

Electronics	
Readout Type	Snapshot
Readout Modes	Asynchronous integrate while read Asynchronous integrate then read
Synchronization Modes	Genlock, Sync-in, Sync-out
Image Time Stamp	Internal IRIG-B decoder clock TSPI accurate time stamp
Integration Time	270 ns to 687 sec
Pixel Clock	355 MHz
Frame Rate (Full Window)	Programmable; 0.0015 Hz to 502 Hz
Subwindow Mode	Flexible windowing down to 64 x 4 (steps of 32 columns, 4 rows)
Dynamic Range	14-bit
On-Camera Image Storage	RAM (volatile): 16 GB, up to 26000 frames, full frame SSD (non-volatile): >4 TB
Radiometric Data Streaming	Simultaneous Gigabit Ethernet (GigE Vision), Camera Link, CoaXPress (CXP)
Standard Video	HDMI, SDI, NTSC, PAL
Command and Control	GigE, USB, RS-232, Camera Link, CXP (GenICam protocol supported over GigE or CXP)

Temperature Measurement	
Standard Temperature Range	-20°C to 350°C (-4°F to 662°F)
Optional Temperature Range	Up to 1,500°C (2,732°F), Up to 2,000°C (3,632°F), Up to 3,000°C (5,432°F)



FLIR X6802sc

P/N: 29420-202

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Temperature Measurement	
Accuracy	± 1°C or ± 1% of reading: <ul style="list-style-type: none">• 0°C to +3000°C (25 mm, 50 mm, 100 mm lenses)
	± 2°C or ± 2% of reading: <ul style="list-style-type: none">• -20°C to 0°C (25 mm, 50 mm, 100 mm lenses)

Optics	
Camera f/Number	f/4.1
Available Lenses (Uses FLIR HDC Optics)	25 mm, 50 mm, 100 mm
Close-up Lenses/Microscopes	No microscopes available
Lens Interface	FLIR HDC (4-tab bayonet)
Focus	Manual
Filtering	4-position motorized filter wheel, standard 1-inch filters

Image/Video Presentation	
Palettes	Selectable 8-bit
Automatic Gain Control	Manual, Linear, Plateau equalization, ROI, DDE
Overlay	Customizable (IRIG-B, Date, Integration time, Internal temp, Frame rate, Sync mode, Cooler hours)
Video Modes	HD: 720p/50/59.9 Hz, 1080p/25/29.9 Hz, SD: NTSC, PAL
Digital Zoom	1x, 4x, 4:3

General	
Operating Temperature Range	-20°C to 50°C (-4°F to 122°F)
Shock/Vibration	40 g, 11 msec ½ sine pulse/4.3 g RMS random vibration, all 3 axes
Power	24 VDC (< 50 W steady state)
Weight w/Handle, w/o Lens	6.35 kg (14 lbs)
Size (L x W x H) w/o Lens, Handle	249 x 158 x 147 mm (9.8 x 6.2 x 5.8 in.)
Mounting	<ul style="list-style-type: none">• 2 x ¼ in. -20• 1 x 3/8 in. -16• 4 x #10-24• Side: 3x ¼ in. -20 (each side)

Supplies & accessories:

- 29425-100; Lens 1-5 um 100 mm f/2.5 HDC Bayonet
- 29425-025; Lens 1-5 um 25 mm f/2.5 HDC Bayonet
- 29425-050; Lens 1-5 um 50 mm f/2.5 HDC Bayonet

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Detector data	
Detector Type	FLIR Indium Antimonide (InSb)
Spectral Range	3.0 – 5.0 μm
Resolution	640 x 512
Detector Pitch	25 μm
Thermal Sensitivity/NETD	< 20 mK
Well Capacity	11.0 M electrons
Operability	> 99.8% (> 99.95% typical)
Sensor Cooling	Closed cycle rotary

Electronics	
Readout Type	Snapshot
Readout Modes	Asynchronous integrate while read Asynchronous integrate then read
Synchronization Modes	Genlock, Sync-in, Sync-out
Image Time Stamp	Internal IRIG-B decoder clock TSPI accurate time stamp
Integration Time	270 ns to 687 sec
Pixel Clock	355 MHz
Frame Rate (Full Window)	Programmable; 0.0015 Hz to 502 Hz
Subwindow Mode	Flexible windowing down to 64 x 4 (steps of 32 columns, 4 rows)
Dynamic Range	14-bit
On-Camera Image Storage	RAM (volatile): 16 GB, up to 26000 frames, full frame SSD (non-volatile): >4 TB
Radiometric Data Streaming	Simultaneous Gigabit Ethernet (GigE Vision), Camera Link, CoaXPress (CXP)
Standard Video	HDMI, SDI, NTSC, PAL
Command and Control	GigE, USB, RS-232, Camera Link, CXP (GenICam protocol supported over GigE or CXP)

Temperature Measurement	
Standard Temperature Range	-20°C to 350°C (-4°F to 662°F)
Optional Temperature Range	Up to 1,500°C (2,732°F), Up to 2,000°C (3,632°F), Up to 3,000°C (5,432°F)



FLIR X6803sc

P/N: 29420-203

Revision

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Temperature Measurement	
Accuracy	$\pm 1^{\circ}\text{C}$ or $\pm 1\%$ of reading: <ul style="list-style-type: none">• 0°C to $+3000^{\circ}\text{C}$ (17 mm, 25 mm, 50 mm, 100 mm, 200 mm lenses) $\pm 2^{\circ}\text{C}$ or $\pm 2\%$ of reading: <ul style="list-style-type: none">• -20°C to 0°C (17 mm, 25 mm, 50 mm, 100 mm, 200 mm lenses)• -10°C to $+500^{\circ}\text{C}$ (1x & 4x Close Up lenses)

Optics	
Camera f/Number	f/4.1
Available Lenses (Uses FLIR HDC Optics)	17 mm, 25 mm, 50 mm, 100 mm, 200 mm
Close-up Lenses/Microscopes	1X, 4X
Lens Interface	FLIR HDC (4-tab bayonet)
Focus	Manual
Filtering	4-position motorized filter wheel, standard 1-inch filters

Image/Video Presentation	
Palettes	Selectable 8-bit
Automatic Gain Control	Manual, Linear, Plateau equalization, ROI, DDE
Overlay	Customizable (IRIG-B, Date, Integration time, Internal temp, Frame rate, Sync mode, Cooler hours)
Video Modes	HD: 720p/50/59.9 Hz, 1080p/25/29.9 Hz, SD: NTSC, PAL
Digital Zoom	1x, 4x, 4:3

General	
Operating Temperature Range	-20°C to 50°C (-4°F to 122°F)
Shock/Vibration	40 g, 11 msec $\frac{1}{2}$ sine pulse/4.3 g RMS random vibration, all 3 axes
Power	24 VDC (< 50 W steady state)
Weight w/Handle, w/o Lens	6.35 kg (14 lbs)
Size (L x W x H) w/o Lens, Handle	249 x 158 x 147 mm (9.8 x 6.2 x 5.8 in.)
Mounting	<ul style="list-style-type: none">• 2 x $\frac{1}{4}$ in. -20• 1 x $\frac{3}{8}$ in. -16• 4 x #10-24• Side: 3x $\frac{1}{4}$ in. -20 (each side)

Supplies & accessories:

- 4203499; Lens 3-5 um 100 mm f/2.5 HDC Bayonet
- 4205267; Lens 3-5 um 17 mm f/2.5 HDC Bayonet
- 4205268; Lens 3-5 um 200 mm f/2.5 HDC Bayonet
- 4203497; Lens 3-5 um 25 mm f/2.5 HDC Bayonet
- 4203498; Lens 3-5 um 50 mm f/2.5 HDC Bayonet
- 29425-001; Lens, 3-5 um, 1X microscope, f/4 HDC Bayonet
- 29425-004; Lens, 3-5 um, 4X microscope, f/4 HDC Bayonet

P/N: 29267-200

Revision

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Website

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Detector data	
Detector Type	FLIR Indium Antimonide (InSb)
Spectral Range	1.5 – 5.0 μm
Resolution	640 x 512
Detector Pitch	25 μm
Thermal Sensitivity/NETD	< 20 mK
Well Capacity	11.0 M electrons
Operability	> 99.8% (> 99.95% typical)
Sensor Cooling	Closed cycle rotary

Electronics	
Readout Type	Snapshot
Readout Modes	Asynchronous integrate while read Asynchronous integrate then read
Synchronization Modes	Genlock, Sync-in, Sync-out
Image Time Stamp	Internal IRIG-B decoder clock TSPI accurate time stamp
Integration Time	270 ns to 687 sec
Pixel Clock	355 MHz
Frame Rate (Full Window)	Programmable; 0.0015 Hz to 1004 Hz
Subwindow Mode	Flexible windowing down to 64 x 4 (steps of 32 columns, 4 rows)
Dynamic Range	14-bit
On-Camera Image Storage	RAM (volatile): 16 GB, up to 26000 frames, full frame SSD (non-volatile): >4 TB
Radiometric Data Streaming	Simultaneous Gigabit Ethernet (GigE Vision), Camera Link, CoaXPress (CXP)
Standard Video	HDMI, SDI, NTSC, PAL
Command and Control	GigE, USB, RS-232, Camera Link, CXP (GenICam protocol supported over GigE or CXP)

Temperature Measurement	
Standard Temperature Range	-20°C to 350°C (-4°F to 662°F)
Optional Temperature Range	Up to 1,500°C (2,732°F), Up to 2,000°C (3,632°F), Up to 3,000°C (5,432°F)



FLIR X6900sc

P/N: 29267-200

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Temperature Measurement	
Accuracy	$\pm 1^{\circ}\text{C}$ or $\pm 1\%$ of reading: <ul style="list-style-type: none">• 0°C to $+3000^{\circ}\text{C}$ (25 mm, 50 mm, 100 mm lenses) $\pm 2^{\circ}\text{C}$ or $\pm 2\%$ of reading: <ul style="list-style-type: none">• -20°C to 0°C (25 mm, 50 mm, 100 mm lenses)

Optics	
Camera f/Number	f/2.5
Available Lenses (Uses FLIR HDC Optics)	25 mm, 50 mm, 100mm
Close-up Lenses/Microscopes	N/A
Lens Interface	FLIR HDC (4-tab bayonet)
Focus	Manual
Filtering	4-position motorized filter wheel, standard 1-inch filters

Image/Video Presentation	
Palettes	Selectable 8-bit
Automatic Gain Control	Manual, Linear, Plateau equalization, ROI, DDE
Overlay	Customizable (IRIG-B, Date, Integration time, Internal temp, Frame rate, Sync mode, Cooler hours)
Video Modes	HD: 720p/50/59.9 Hz, 1080p/25/29.9 Hz, SD: NTSC, PAL
Digital Zoom	1x, 4x, 4:3

General	
Operating Temperature Range	-20°C to 50°C (-4°F to 122°F)
Shock/Vibration	40 g, 11 msec $\frac{1}{2}$ sine pulse/4.3 g RMS random vibration, all 3 axes
Power	24 VDC (< 50 W steady state)
Weight w/Handle, w/o Lens	6.35 kg (14 lbs)
Size (L x W x H) w/o Lens, Handle	249 x 158 x 147 mm (9.8 x 6.2 x 5.8 in.)
Mounting	<ul style="list-style-type: none">• 2 x $\frac{1}{4}$ in. -20• 1 x $\frac{3}{8}$ in. -16• 4 x #10-24• Side: 3x $\frac{1}{4}$ in. -20 (each side)

Supplies & accessories:

- 29425-100; Lens 1-5 μm 100 mm f/2.5 HDC Bayonet
- 29425-025; Lens 1-5 μm 25 mm f/2.5 HDC Bayonet
- 29425-050; Lens 1-5 μm 50 mm f/2.5 HDC Bayonet

P/N: 29421-200

Revision

44554

Last modified

2017-08-29 14:24 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Detector data	
Detector Type	Strained-Layer Superlattice
Spectral Range	3 - 12 microns
Resolution	640 x 512
Detector Pitch	25 µm
Thermal Sensitivity/NETD	< 40 mK
Well Capacity	11.0 M electrons
Operability	> 99% (> 99.5% typical)
Sensor Cooling	Closed cycle rotary

Electronics	
Readout Type	Snapshot
Readout Modes	Asynchronous integrate while read Asynchronous integrate then read
Synchronization Modes	Genlock, Sync-in, Sync-out
Image Time Stamp	Internal IRIG-B decoder clock TSPI accurate time stamp
Integration Time	270 ns to 687 sec
Pixel Clock	355 MHz
Frame Rate (Full Window)	Programmable; 0.0015 Hz to 1004 Hz
Subwindow Mode	Flexible windowing down to 64 x 4 (steps of 32 columns, 4 rows)
Dynamic Range	14-bit
On-Camera Image Storage	RAM (volatile): 16 GB, up to 26000 frames, full frame SSD (non-volatile): >4 TB
Radiometric Data Streaming	Simultaneous Gigabit Ethernet (GigE Vision), Camera Link, CoaXPress (CXP)
Standard Video	HDMI, SDI, NTSC, PAL
Command and Control	GigE, USB, RS-232, Camera Link, CXP (GenICam protocol supported over GigE or CXP)

Temperature Measurement	
Standard Temperature Range	No calibrations available
Optional Temperature Range	No calibrations available



FLIR X6900sc SLS

P/N: 29421-200

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44554

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2017-08-29 14:24 UTC+1

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Website

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Temperature Measurement	
Accuracy	No calibrations available

Optics	
Camera f/Number	f/2.5
Available Lenses (Uses FLIR HDC Optics)	No lenses available
Close-up Lenses/Microscopes	No microscopes available
Lens Interface	FLIR HDC (4-tab bayonet)
Focus	Manual
Filtering	4-position motorized filter wheel, standard 1-inch filters

Image/Video Presentation	
Palettes	Selectable 8-bit
Automatic Gain Control	Manual, Linear, Plateau equalization, ROI, DDE
Overlay	Customizable (IRIG-B, Date, Integration time, Internal temp, Frame rate, Sync mode, Cooler hours)
Video Modes	HD: 720p/50/59.9 Hz, 1080p/25/29.9 Hz, SD: NTSC, PAL
Digital Zoom	1x, 4x, 4:3

General	
Operating Temperature Range	-20°C to 50°C (-4°F to 122°F)
Shock/Vibration	40 g, 11 msec ½ sine pulse/4.3 g RMS random vibration, all 3 axes
Power	24 VDC (< 50 W steady state)
Weight w/Handle, w/o Lens	6.35 kg (14 lbs)
Size (L x W x H) w/o Lens, Handle	249 x 158 x 147 mm (9.8 x 6.2 x 5.8 in.)
Mounting	<ul style="list-style-type: none">• 2 x ¼ in. -20• 1 x 3/8 in. -16• 4 x #10-24• Side: 3x ¼ in. -20 (each side)

Supplies & accessories:

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Detector data	
Detector Type	FLIR Indium Antimonide (InSb)
Spectral Range	3.0 – 5.0 μm
Resolution	640 x 512
Detector Pitch	25 μm
Thermal Sensitivity/NETD	< 20 mK
Well Capacity	11.0 M electrons
Operability	> 99.8% (> 99.95% typical)
Sensor Cooling	Closed cycle rotary

Electronics	
Readout Type	Snapshot
Readout Modes	Asynchronous integrate while read Asynchronous integrate then read
Synchronization Modes	Genlock, Sync-in, Sync-out
Image Time Stamp	Internal IRIG-B decoder clock TSPI accurate time stamp
Integration Time	270 ns to 687 sec
Pixel Clock	355 MHz
Frame Rate (Full Window)	Programmable; 0.0015 Hz to 1004 Hz
Subwindow Mode	Flexible windowing down to 64 x 4 (steps of 32 columns, 4 rows)
Dynamic Range	14-bit
On-Camera Image Storage	RAM (volatile): 16 GB, up to 26000 frames, full frame SSD (non-volatile): >4 TB
Radiometric Data Streaming	Simultaneous Gigabit Ethernet (GigE Vision), Camera Link, CoaXPress (CXP)
Standard Video	HDMI, SDI, NTSC, PAL
Command and Control	GigE, USB, RS-232, Camera Link, CXP (GenICam protocol supported over GigE or CXP)

Temperature Measurement	
Standard Temperature Range	-20°C to 350°C (-4°F to 662°F)
Optional Temperature Range	Up to 1,500°C (2,732°F), Up to 2,000°C (3,632°F), Up to 3,000°C (5,432°F)



FLIR X6901sc

P/N: 29267-201

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Temperature Measurement	
Accuracy	$\pm 1^{\circ}\text{C}$ or $\pm 1\%$ of reading: <ul style="list-style-type: none">• 0°C to $+3000^{\circ}\text{C}$ (17 mm, 25 mm, 50 mm, 100 mm, 200 mm lenses) $\pm 2^{\circ}\text{C}$ or $\pm 2\%$ of reading: <ul style="list-style-type: none">• -20°C to 0°C (17 mm, 25 mm, 50 mm, 100 mm, 200 mm lenses)• -10°C to $+500^{\circ}\text{C}$ (1x & 4x Close Up lenses)

Optics	
Camera f/Number	f/2.5
Available Lenses (Uses FLIR HDC Optics)	17 mm, 25 mm, 50 mm, 100 mm, 200 mm
Close-up Lenses/Microscopes	1X, 4X
Lens Interface	FLIR HDC (4-tab bayonet)
Focus	Manual
Filtering	4-position motorized filter wheel, standard 1-inch filters

Image/Video Presentation	
Palettes	Selectable 8-bit
Automatic Gain Control	Manual, Linear, Plateau equalization, ROI, DDE
Overlay	Customizable (IRIG-B, Date, Integration time, Internal temp, Frame rate, Sync mode, Cooler hours)
Video Modes	HD: 720p/50/59.9 Hz, 1080p/25/29.9 Hz, SD: NTSC, PAL
Digital Zoom	1x, 4x, 4:3

General	
Operating Temperature Range	-20°C to 50°C (-4°F to 122°F)
Shock/Vibration	40 g, 11 msec $\frac{1}{2}$ sine pulse/4.3 g RMS random vibration, all 3 axes
Power	24 VDC (< 50 W steady state)
Weight w/Handle, w/o Lens	6.35 kg (14 lbs)
Size (L x W x H) w/o Lens, Handle	249 x 158 x 147 mm (9.8 x 6.2 x 5.8 in.)
Mounting	<ul style="list-style-type: none">• 2 x $\frac{1}{4}$ in. -20• 1 x $\frac{3}{8}$ in. -16• 4 x #10-24• Side: 3x $\frac{1}{4}$ in. -20 (each side)

Supplies & accessories:

- 4203499; Lens 3-5 um 100 mm f/2.5 HDC Bayonet
- 4205267; Lens 3-5 um 17 mm f/2.5 HDC Bayonet
- 4205268; Lens 3-5 um 200 mm f/2.5 HDC Bayonet
- 4203497; Lens 3-5 um 25 mm f/2.5 HDC Bayonet
- 4203498; Lens 3-5 um 50 mm f/2.5 HDC Bayonet
- 29425-001; Lens, 3-5 um, 1X microscope, f/4 HDC Bayonet
- 29425-004; Lens, 3-5 um, 4X microscope, f/4 HDC Bayonet

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Website

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Customer support

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Detector data	
Detector Type	Strained-Layer Superlattice
Spectral Range	7.5 - 12 microns
Resolution	640 x 512
Detector Pitch	25 µm
Thermal Sensitivity/NETD	< 40 mK
Well Capacity	11.0 M electrons
Operability	> 99.8% (> 99.95% typical)
Sensor Cooling	Closed cycle rotary

Electronics	
Readout Type	Snapshot
Readout Modes	Asynchronous integrate while read Asynchronous integrate then read
Synchronization Modes	Genlock, Sync-in, Sync-out
Image Time Stamp	Internal IRIG-B decoder clock TSPI accurate time stamp
Integration Time	270 ns to 687 sec
Pixel Clock	355 MHz
Frame Rate (Full Window)	Programmable; 0.0015 Hz to 1004 Hz
Subwindow Mode	Flexible windowing down to 64 x 4 (steps of 32 columns, 4 rows)
Dynamic Range	14-bit
On-Camera Image Storage	RAM (volatile): 16 GB, up to 26000 frames, full frame SSD (non-volatile): >4 TB
Radiometric Data Streaming	Simultaneous Gigabit Ethernet (GigE Vision), Camera Link, CoaXPress (CXP)
Standard Video	HDMI, SDI, NTSC, PAL
Command and Control	GigE, USB, RS-232, Camera Link, CXP (GenICam protocol supported over GigE or CXP)

Temperature Measurement	
Standard Temperature Range	-20°C to 350°C (-4°F to 662°F)
Optional Temperature Range	Up to 1,500°C (2,732°F), Up to 2,000°C (3,632°F), Up to 3,000°C (5,432°F)



FLIR X6901sc SLS

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Temperature Measurement	
Accuracy	$\pm 1^\circ\text{C}$ or $\pm 1\%$ of reading: <ul style="list-style-type: none">0°C to $+3000^\circ\text{C}$ (25 mm, 50 mm, 100 mm lenses) $\pm 2^\circ\text{C}$ or $\pm 2\%$ of reading: <ul style="list-style-type: none">-20°C to 0°C (25 mm, 50 mm, 100 mm lenses)

Optics	
Camera f/Number	f/2.5
Available Lenses (Uses FLIR HDC Optics)	25 mm, 50 mm, 100 mm
Close-up Lenses/Microscopes	1X
Lens Interface	FLIR HDC (4-tab bayonet)
Focus	Manual
Filtering	4-position motorized filter wheel, standard 1-inch filters

Image/Video Presentation	
Palettes	Selectable 8-bit
Automatic Gain Control	Manual, Linear, Plateau equalization, ROI, DDE
Overlay	Customizable (IRIG-B, Date, Integration time, Internal temp, Frame rate, Sync mode, Cooler hours)
Video Modes	HD: 720p/50/59.9 Hz, 1080p/25/29.9 Hz, SD: NTSC, PAL
Digital Zoom	1x, 4x, 4:3

General	
Operating Temperature Range	-20°C to 50°C (-4°F to 122°F)
Shock/Vibration	40 g, 11 msec $\frac{1}{2}$ sine pulse/4.3 g RMS random vibration, all 3 axes
Power	24 VDC (< 50 W steady state)
Weight w/Handle, w/o Lens	6.35 kg (14 lbs)
Size (L x W x H) w/o Lens, Handle	249 x 158 x 147 mm (9.8 x 6.2 x 5.8 in.)
Mounting	<ul style="list-style-type: none">2 x $\frac{1}{4}$ in. -201 x $\frac{3}{8}$ in. -164 x #10-24Side: 3x $\frac{1}{4}$ in. -20 (each side)

Supplies & accessories:

- 4209169; Lens 7.5-12 μm 100 mm f/2.5 HDC Bayonet
- 4209167; Lens 7.5-12 μm 25 mm f/2.5 HDC Bayonet
- 4209168; Lens 7.5-12 μm 50 mm f/2.5 HDC Bayonet

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Website

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Customer support

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Detector data	
Detector Type	FLIR Indium Antimonide (InSb)
Spectral Range	1.5 – 5.0 μm
Resolution	640 x 512
Detector Pitch	25 μm
Thermal Sensitivity/NETD	< 20 mK
Well Capacity	11.0 M electrons
Operability	> 99.8% (> 99.95% typical)
Sensor Cooling	Closed cycle rotary

Electronics	
Readout Type	Snapshot
Readout Modes	Asynchronous integrate while read Asynchronous integrate then read
Synchronization Modes	Genlock, Sync-in, Sync-out
Image Time Stamp	Internal IRIG-B decoder clock TSPI accurate time stamp
Integration Time	270 ns to 687 sec
Pixel Clock	355 MHz
Frame Rate (Full Window)	Programmable; 0.0015 Hz to 1004 Hz
Subwindow Mode	Flexible windowing down to 64 x 4 (steps of 32 columns, 4 rows)
Dynamic Range	14-bit
On-Camera Image Storage	RAM (volatile): 16 GB, up to 26000 frames, full frame SSD (non-volatile): >4 TB
Radiometric Data Streaming	Simultaneous Gigabit Ethernet (GigE Vision), Camera Link, CoaXPress (CXP)
Standard Video	HDMI, SDI, NTSC, PAL
Command and Control	GigE, USB, RS-232, Camera Link, CXP (GenICam protocol supported over GigE or CXP)

Temperature Measurement	
Standard Temperature Range	-20°C to 350°C (-4°F to 662°F)
Optional Temperature Range	Up to 1,500°C (2,732°F), Up to 2,000°C (3,632°F), Up to 3,000°C (5,432°F)



FLIR X6902sc

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Temperature Measurement	
Accuracy	$\pm 1^\circ\text{C}$ or $\pm 1\%$ of reading: <ul style="list-style-type: none">• 0°C to $+3000^\circ\text{C}$ (25 mm, 50 mm, 100 mm lenses) $\pm 2^\circ\text{C}$ or $\pm 2\%$ of reading: <ul style="list-style-type: none">• -20°C to 0°C (25 mm, 50 mm, 100 mm lenses)

Optics	
Camera f/Number	f/4.1
Available Lenses (Uses FLIR HDC Optics)	25 mm, 50 mm, 100 mm
Close-up Lenses/Microscopes	N/A
Lens Interface	FLIR HDC (4-tab bayonet)
Focus	Manual
Filtering	4-position motorized filter wheel, standard 1-inch filters

Image/Video Presentation	
Palettes	Selectable 8-bit
Automatic Gain Control	Manual, Linear, Plateau equalization, ROI, DDE
Overlay	Customizable (IRIG-B, Date, Integration time, Internal temp, Frame rate, Sync mode, Cooler hours)
Video Modes	HD: 720p/50/59.9 Hz, 1080p/25/29.9 Hz, SD: NTSC, PAL
Digital Zoom	1x, 4x, 4:3

General	
Operating Temperature Range	-20°C to 50°C (-4°F to 122°F)
Shock/Vibration	40 g, 11 msec $\frac{1}{2}$ sine pulse/4.3 g RMS random vibration, all 3 axes
Power	24 VDC (< 50 W steady state)
Weight w/Handle, w/o Lens	6.35 kg (14 lbs)
Size (L x W x H) w/o Lens, Handle	249 x 158 x 147 mm (9.8 x 6.2 x 5.8 in.)
Mounting	<ul style="list-style-type: none">• 2 x $\frac{1}{4}$ in. -20• 1 x $\frac{3}{8}$ in. -16• 4 x #10-24• Side: 3x $\frac{1}{4}$ in. -20 (each side)

Supplies & accessories:

- 29425-100; Lens 1-5 μm 100 mm f/2.5 HDC Bayonet
- 29425-025; Lens 1-5 μm 25 mm f/2.5 HDC Bayonet
- 29425-050; Lens 1-5 μm 50 mm f/2.5 HDC Bayonet

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Website

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Detector data	
Detector Type	Strained-Layer Superlattice
Spectral Range	3 - 12 μm
Resolution	640 x 512
Detector Pitch	25 μm
Thermal Sensitivity/NETD	< 40 mK
Well Capacity	11.0 M electrons
Operability	> 99% (> 99.5% typical)
Sensor Cooling	Closed cycle rotary

Electronics	
Readout Type	Snapshot
Readout Modes	Asynchronous integrate while read Asynchronous integrate then read
Synchronization Modes	Genlock, Sync-in, Sync-out
Image Time Stamp	Internal IRIG-B decoder clock TSPI accurate time stamp
Integration Time	270 ns to 687 sec
Pixel Clock	355 MHz
Frame Rate (Full Window)	Programmable; 0.0015 Hz to 1004 Hz
Subwindow Mode	Flexible windowing down to 64 x 4 (steps of 32 columns, 4 rows)
Dynamic Range	14-bit
On-Camera Image Storage	RAM (volatile): 16 GB, up to 26000 frames, full frame SSD (non-volatile): >4 TB
Radiometric Data Streaming	Simultaneous Gigabit Ethernet (GigE Vision), Camera Link, CoaXPress (CXP)
Standard Video	HDMI, SDI, NTSC, PAL
Command and Control	GigE, USB, RS-232, Camera Link, CXP (GenICam protocol supported over GigE or CXP)

Temperature Measurement	
Standard Temperature Range	No calibrations available
Optional Temperature Range	No calibrations available



FLIR X6902sc SLS

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Temperature Measurement	
Accuracy	No calibrations available

Optics	
Camera f/Number	f/2.5
Available Lenses (Uses FLIR HDC Optics)	No lenses available
Close-up Lenses/Microscopes	No microscopes available
Lens Interface	FLIR HDC (4-tab bayonet)
Focus	Manual
Filtering	4-position motorized filter wheel, standard 1-inch filters

Image/Video Presentation	
Palettes	Selectable 8-bit
Automatic Gain Control	Manual, Linear, Plateau equalization, ROI, DDE
Overlay	Customizable (IRIG-B, Date, Integration time, Internal temp, Frame rate, Sync mode, Cooler hours)
Video Modes	HD: 720p/50/59.9 Hz, 1080p/25/29.9 Hz, SD: NTSC, PAL
Digital Zoom	1x, 4x, 4:3

General	
Operating Temperature Range	-20°C to 50°C (-4°F to 122°F)
Shock/Vibration	40 g, 11 msec ½ sine pulse/4.3 g RMS random vibration, all 3 axes
Power	24 VDC (< 50 W steady state)
Weight w/Handle, w/o Lens	6.35 kg (14 lbs)
Size (L x W x H) w/o Lens, Handle	249 x 158 x 147 mm (9.8 x 6.2 x 5.8 in.)
Mounting	<ul style="list-style-type: none">• 2 x ¼ in. -20• 1 x 3/8 in. -16• 4 x #10-24• Side: 3x ¼ in. -20 (each side)

Supplies & accessories:

P/N: 29267-203

Revision

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Detector data	
Detector Type	FLIR Indium Antimonide (InSb)
Spectral Range	3.0 – 5.0 μm
Resolution	640 x 512
Detector Pitch	25 μm
Thermal Sensitivity/NETD	< 20 mK
Well Capacity	11.0 M electrons
Operability	> 99.8% (> 99.95% typical)
Sensor Cooling	Closed cycle rotary

Electronics	
Readout Type	Snapshot
Readout Modes	Asynchronous integrate while read Asynchronous integrate then read
Synchronization Modes	Genlock, Sync-in, Sync-out
Image Time Stamp	Internal IRIG-B decoder clock TSPI accurate time stamp
Integration Time	270 ns to 687 sec
Pixel Clock	355 MHz
Frame Rate (Full Window)	Programmable; 0.0015 Hz to 1004 Hz
Subwindow Mode	Flexible windowing down to 64 x 4 (steps of 32 columns, 4 rows)
Dynamic Range	14-bit
On-Camera Image Storage	RAM (volatile): 16 GB, up to 26000 frames, full frame SSD (non-volatile): >4 TB
Radiometric Data Streaming	Simultaneous Gigabit Ethernet (GigE Vision), Camera Link, CoaXPress (CXP)
Standard Video	HDMI, SDI, NTSC, PAL
Command and Control	GigE, USB, RS-232, Camera Link, CXP (GenICam protocol supported over GigE or CXP)

Temperature Measurement	
Standard Temperature Range	-20°C to 350°C (-4°F to 662°F)
Optional Temperature Range	Up to 1,500°C (2,732°F), Up to 2,000°C (3,632°F), Up to 3,000°C (5,432°F)



FLIR X6903sc

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Revision

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Temperature Measurement	
Accuracy	± 1°C or ± 1% of reading: <ul style="list-style-type: none"> 0°C to +3000°C (17 mm, 25 mm, 50 mm, 100 mm, 200 mm lenses) ± 2°C or ± 2% of reading: <ul style="list-style-type: none"> -20°C to 0°C (17 mm, 25 mm, 50 mm, 100 mm, 200 mm lenses) -10°C to +500°C (1x & 4x Close Up lenses)

Optics	
Camera f/Number	f/4.1
Available Lenses (Uses FLIR HDC Optics)	17 mm, 25 mm, 50 mm, 100 mm, 200 mm
Close-up Lenses/Microscopes	1X, 4X
Lens Interface	FLIR HDC (4-tab bayonet)
Focus	Manual
Filtering	4-position motorized filter wheel, standard 1-inch filters

Image/Video Presentation	
Palettes	Selectable 8-bit
Automatic Gain Control	Manual, Linear, Plateau equalization, ROI, DDE
Overlay	Customizable (IRIG-B, Date, Integration time, Internal temp, Frame rate, Sync mode, Cooler hours)
Video Modes	HD: 720p/50/59.9 Hz, 1080p/25/29.9 Hz, SD: NTSC, PAL
Digital Zoom	1x, 4x, 4:3

General	
Operating Temperature Range	-20°C to 50°C (-4°F to 122°F)
Shock/Vibration	40 g, 11 msec ½ sine pulse/4.3 g RMS random vibration, all 3 axes
Power	24 VDC (< 50 W steady state)
Weight w/Handle, w/o Lens	6.35 kg (14 lbs)
Size (L x W x H) w/o Lens, Handle	249 x 158 x 147 mm (9.8 x 6.2 x 5.8 in.)
Mounting	<ul style="list-style-type: none"> 2 x ¼ in. -20 1 x 3/8 in. -16 4 x #10-24 Side: 3x ¼ in. -20 (each side)

Supplies & accessories:

- 4203499; Lens 3-5 um 100 mm f/2.5 HDC Bayonet
- 4205267; Lens 3-5 um 17 mm f/2.5 HDC Bayonet
- 4205268; Lens 3-5 um 200 mm f/2.5 HDC Bayonet
- 4203497; Lens 3-5 um 25 mm f/2.5 HDC Bayonet
- 4203498; Lens 3-5 um 50 mm f/2.5 HDC Bayonet
- 29425-001; Lens, 3-5 um, 1X microscope, f/4 HDC Bayonet
- 29425-004; Lens, 3-5 um, 4X microscope, f/4 HDC Bayonet

P/N: 29421-203

Revision

47472

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Detector data	
Detector Type	Strained-Layer Superlattice
Spectral Range	7.5 - 12 μm
Resolution	640 x 512
Detector Pitch	25 μm
Thermal Sensitivity/NETD	< 40 mK
Well Capacity	11.0 M electrons
Operability	> 99% (> 99.5% typical)
Sensor Cooling	Closed cycle rotary

Electronics	
Readout Type	Snapshot
Readout Modes	Asynchronous integrate while read Asynchronous integrate then read
Synchronization Modes	Genlock, Sync-in, Sync-out
Image Time Stamp	Internal IRIG-B decoder clock TSPI accurate time stamp
Integration Time	270 ns to 387 sec
Pixel Clock	355 MHz
Frame Rate (Full Window)	Programmable; 0.0015 Hz to 1004 Hz
Subwindow Mode	Flexible windowing down to 64 x 4 (steps of 32 columns, 4 rows)
Dynamic Range	14-bit
On-Camera Image Storage	RAM (volatile): 16 GB, up to 26000 frames, full frame SSD (non-volatile): >4 TB
Radiometric Data Streaming	Simultaneous Gigabit Ethernet (GigE Vision), Camera Link, CoaXPress (CXP)
Standard Video	HDMI, SDI, NTSC, PAL
Command and Control	GigE, USB, RS-232, Camera Link, CXP (GenICam protocol supported over GigE or CXP)

Temperature Measurement	
Standard Temperature Range	-20°C to 650°C (-4°F to 1202°F)
Optional Temperature Range	Up to 1,500°C (2,732°F), Up to 2,000°C (3,632°F), Up to 3,000°C (5,432°F)



FLIR X6903sc SLS

P/N: 29421-203

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Temperature Measurement	
Accuracy	$\pm 1^{\circ}\text{C}$ or $\pm 1\%$ of reading: <ul style="list-style-type: none">0°C to $+3000^{\circ}\text{C}$ (25 mm, 50 mm, 100 mm lenses) $\pm 2^{\circ}\text{C}$ or $\pm 2\%$ of reading: <ul style="list-style-type: none">-20°C to 0°C (25 mm, 50 mm, 100 mm lenses)

Optics	
Camera f/Number	f/4
Available Lenses (Uses FLIR HDC Optics)	25 mm, 50 mm, 100 mm
Close-up Lenses/Microscopes	1X
Lens Interface	FLIR HDC (4-tab bayonet)
Focus	Manual
Filtering	4-position motorized filter wheel, standard 1-inch filters

Image/Video Presentation	
Palettes	Selectable 8-bit
Automatic Gain Control	Manual, Linear, Plateau equalization, ROI, DDE
Overlay	Customizable (IRIG-B, Date, Integration time, Internal temp, Frame rate, Sync mode, Cooler hours)
Video Modes	HD: 720p/50/59.9 Hz, 1080p/25/29.9 Hz, SD: NTSC, PAL
Digital Zoom	1x, 4x, 4:3

General	
Operating Temperature Range	-20°C to 50°C (-4°F to 122°F)
Shock/Vibration	40 g, 11 msec $\frac{1}{2}$ sine pulse/4.3 g RMS random vibration, all 3 axes
Power	24 VDC (< 50 W steady state)
Weight w/Handle, w/o Lens	6.35 kg (14 lbs)
Size (L x W x H) w/o Lens, Handle	249 x 158 x 147 mm (9.8 x 6.2 x 5.8 in.)
Mounting	<ul style="list-style-type: none">2 x $\frac{1}{4}$ in. -201 x $\frac{3}{8}$ in. -164 x #10 -24Side: 3x $\frac{1}{4}$ in. -20 (each side)

Supplies & accessories:

- 4209169; Lens 7.5-12 μm 100 mm f/2.5 HDC Bayonet
- 4209167; Lens 7.5-12 μm 25 mm f/2.5 HDC Bayonet
- 4209168; Lens 7.5-12 μm 50 mm f/2.5 HDC Bayonet

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FLIR X8xxx series

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P/N: 66901-0101

Revision

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Website

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Customer support

<http://support.flir.com>



Detector/image	
Detector type	Digital focal plane array (FPA)
Sensor material	InSb
IR resolution	1280 × 1024
Detector pitch	15 μm
f-number	f/2
Optical interface	Bayonet
Lens identification	Automatic
Windowing	640 × 512/320 × 256
Arbitrary size windowing (down to)	2 × 2
Arbitrary size windowing (steps)	Horizontal: ≥2, steps of 2 pixels Vertical: ≥2, steps of 2 pixels
Maximum image frequency (full frame)	106 Hz
Maximum image frequency	3690 Hz
Maximum frame rate ¹	<ul style="list-style-type: none"> • 167 Hz @ 640 × 512 ITR • 321 Hz @ 320 × 256 ITR • 594 Hz @ 160 × 128 ITR • 3695 Hz @ 1280 × 2 ITR
Integration time range	500 ns–20 000 μs
Integration time step	12.5 ns
Integration time mode	IWR/ITR
Digital output	GigE/Camlink base—medium
Cooler type	Closed-cycle (rotary) Stirling cooler
Cooling temperature	77 K
Operability	>99.5%
Physical data	
Size (L × W × H)	<ul style="list-style-type: none"> • 233 mm × 150 mm × 178 mm (9.17" × 5.91" × 7.01") (without LCD) • 233 mm × 150 mm × 178 mm (9.17" × 5.91" × 8.71") (with LCD)

1. Some cameras also have a minimum frame rate, unspecified. Contact your FLIR representative for more information.



FLIR X8400sc

P/N: 66901-0101

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Physical data	
Weight without lens	4.650 kg (10.250 lb.) without LCD 5.100 kg (11.240 lb.) with LCD
Tripod mounting	UNC 1/4"-20

Power system	
Power supply	24 V DC
Power consumption (cooldown/stab)	48 W/35 W

Environmental data	
Operating temperature range	-20°C/+50°C (-4°F/122°F)
Bump	Operational 15G, IEC 68-2-29
Vibration	Operational 2G, IEC 68-2-26
Encapsulation	IP 54 (IEC 60529)

Radiometry/measurement	
Spectral range	1.5–5.5 µm
Thermal sensitivity/NETD	<25 mK (20 mK typical)
CNUCTM/HypercalTM	Yes
CLUT/extended linear response	Yes
Temperature measurement accuracy	±1°C (1.8°F) or ±1%
Maximum temperature without filter	300°C (572°F)
Well capacity (e-)	5.8 Me-
Filter wheel	4 slots for 1" filter up to 2.5 mm thick
Filter holding	Screw-in holder

Timings and signals	
SYNC IN	TTL, singled ended, BNC >300 ns pulse width
SYNC IN jitter	12.5 ns
SYNC IN active edge	Falling or rising edge
Delay between SYNC IN and integration	
Delay between SYNC IN and top frame	
Analog signals	1 × (0/+10 V), BNC
TRIGGER IN	TTL, singled ended, BNC >300 ns pulse width
Video output	DVI 1080p30
Waveform generator	Sinus/triangle/square TTL 0–5 V Frequency: 0.001 Hz to 250 kHz

Ethernet	
GigE Vision	Yes

Camera link	
Connector type	2 × Mini MDR26
Tap number	2 (A/B/C/D)
Bit depth	16 bpp



FLIR X8400sc

P/N: 66901-0101

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Radio	
Wi-Fi	802.11g
	Frequency range: 2412–2462 MHz
	Maximum output power: 15 dBm
Antenna	Internal

Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558008133
UPC-12	845188008482
Country of origin	Sweden

Lenses	
Available optic 1	L1002 MW 50 2.0 HD
Available optic 2	L1003 MW 28 2.0 HD
Available optic 3	L1013 MW 100 2.0 HD
Available optic 4	L1101 MW 200 2.0 HD
Available optic 5	L1117 MW Close up x3 HD
Available optic 6	
Available optic 7	
Available optic 8	
Available optic 9	
Available optic 10	
Available optic 11	
Available optic 12	
Available optic 13	

Supplies & accessories:

- T128379ACC; FLIR Platinum SDK

P/N: 29422-200

Revision

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Website

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Customer support

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Detector data	
Detector Type	FLIR Indium Antimonide (InSb)
Spectral Range	1.5 – 5.0 μm
Resolution	1280 x 1024
Detector Pitch	12 μm
Thermal Sensitivity/NETD	< 20 mK
Well Capacity	Gain 0: 3.0 Me-, Gain 1: 11.5 Me-
Operability	> 99.5% (> 99.9% typical)
Sensor Cooling	Linear Sterling Cooler

Electronics	
Readout Type	Snapshot
Readout Modes	Asynchronous integrate while read Asynchronous integrate then read
Synchronization Modes	Genlock, Sync-in, Sync-out
Image Time Stamp	Internal IRIG-B decoder clock TSPI accurate time stamp
Integration Time	270 ns to 687 sec
Pixel Clock	355 MHz
Frame Rate (Full Window)	Programmable; 0.0015 Hz to 181 Hz
Subwindow Mode	Flexible windowing down to 64 x 4 (steps of 64 columns, 4 rows)
Dynamic Range	14-bit
On-Camera Image Storage	RAM (volatile): 16 GB, up to 6,100 frames, full frame SSD (non-volatile): >4 TB
Radiometric Data Streaming	Simultaneous Gigabit Ethernet (GigE Vision), Camera Link, CoaXPress (CXP)
Standard Video	HDMI, SDI, NTSC, PAL
Command and Control	GigE, USB, RS-232, Camera Link, CXP (GenICam protocol supported over GigE or CXP)

Temperature Measurement	
Standard Temperature Range	-20°C to 350°C (-4°F to 662°F)
Optional Temperature Range	Up to 1,500°C (2,732°F), Up to 2,000°C (3,632°F), Up to 3,000°C (5,432°F)



FLIR X8500sc

P/N: 29422-200

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Temperature Measurement	
Accuracy	± 1°C or ± 1% of reading: <ul style="list-style-type: none"> 0°C to +3000°C (25 mm, 50 mm, 100 mm lenses) ± 2°C or ± 2% of reading: <ul style="list-style-type: none"> -20°C to 0°C (25 mm, 50 mm, 100 mm lenses)

Optics	
Camera f/Number	f/2.5
Available Lenses (Uses FLIR HDC Optics)	25 mm, 50 mm, 100mm
Close-up Lenses/Microscopes	N/A
Lens Interface	FLIR HDC (4-tab bayonet)
Focus	Manual
Filtering	4-position motorized filter wheel, standard 1-inch filters

Image/Video Presentation	
Palettes	Selectable 8-bit
Automatic Gain Control	Manual, Linear, Plateau equalization, ROI, DDE
Overlay	Customizable (IRIG-B, Date, Integration time, Internal temp, Frame rate, Sync mode, Cooler hours)
Video Modes	HD: 720p/50/59.9 Hz, 1080p/25/29.9 Hz, SD: NTSC, PAL
Digital Zoom	1x, 4x, 4:3

General	
Operating Temperature Range	-20°C to 50°C (-4°F to 122°F)
Shock/Vibration	40 g, 11 msec ½ sine pulse/4.3 g RMS random vibration, all 3 axes
Power	24 VDC (< 50 W steady state)
Weight w/Handle, w/o Lens	6.35 kg (14 lbs)
Size (L x W x H) w/o Lens, Handle	249 x 158 x 147 mm (9.8 x 6.2 x 5.8 in.)
Mounting	<ul style="list-style-type: none"> 2 x ¼ in. -20 1 x 3/8 in. -16 4 x #10-24 Side: 3x ¼ in. -20 (each side)

Supplies & accessories:

- 29425-100; Lens 1-5 um 100 mm f/2.5 HDC Bayonet
- 29425-025; Lens 1-5 um 25 mm f/2.5 HDC Bayonet
- 29425-050; Lens 1-5 um 50 mm f/2.5 HDC Bayonet

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Revision

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Website

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Detector data	
Detector Type	Strained-Layer Superlattice
Spectral Range	3 - 12 microns
Resolution	1280 x 1024
Detector Pitch	12 μ m
Thermal Sensitivity/NETD	< 20 mK
Well Capacity	Gain 0: 3.0 Me-, Gain 1: 11.5 Me-
Operability	> 99.5% (> 99.9% typical)
Sensor Cooling	Linear Sterling Cooler

Electronics	
Readout Type	Snapshot
Readout Modes	Asynchronous integrate while read Asynchronous integrate then read
Synchronization Modes	Genlock, Sync-in, Sync-out
Image Time Stamp	Internal IRIG-B decoder clock TSPI accurate time stamp
Integration Time	270 ns to 687 sec
Pixel Clock	355 MHz
Frame Rate (Full Window)	Programmable; 0.0015 Hz to 181 Hz
Subwindow Mode	Flexible windowing down to 64 x 4 (steps of 64 columns, 4 rows)
Dynamic Range	14-bit
On-Camera Image Storage	RAM (volatile): 16 GB, up to 6,100 frames, full frame SSD (non-volatile): >4 TB
Radiometric Data Streaming	Simultaneous Gigabit Ethernet (GigE Vision), Camera Link, CoaXPress (CXP)
Standard Video	HDMI, SDI, NTSC, PAL
Command and Control	GigE, USB, RS-232, Camera Link, CXP (GenICam protocol supported over GigE or CXP)

Temperature Measurement	
Standard Temperature Range	No calibrations available
Optional Temperature Range	No calibrations available



FLIR X8500sc SLS

P/N: 29428-200

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Temperature Measurement	
Accuracy	No calibrations available

Optics	
Camera f/Number	f/2.5
Available Lenses (Uses FLIR HDC Optics)	No lenses available
Close-up Lenses/Microscopes	No microscopes available
Lens Interface	FLIR HDC (4-tab bayonet)
Focus	Manual
Filtering	4-position motorized filter wheel, standard 1-inch filters

Image/Video Presentation	
Palettes	Selectable 8-bit
Automatic Gain Control	Manual, Linear, Plateau equalization, ROI, DDE
Overlay	Customizable (IRIG-B, Date, Integration time, Internal temp, Frame rate, Sync mode, Cooler hours)
Video Modes	HD: 720p/50/59.9 Hz, 1080p/25/29.9 Hz, SD: NTSC, PAL
Digital Zoom	1x, 4x, 4:3

General	
Operating Temperature Range	-20°C to 50°C (-4°F to 122°F)
Shock/Vibration	40 g, 11 msec ½ sine pulse/4.3 g RMS random vibration, all 3 axes
Power	24 VDC (< 50 W steady state)
Weight w/Handle, w/o Lens	6.35 kg (14 lbs)
Size (L x W x H) w/o Lens, Handle	249 x 158 x 147 mm (9.8 x 6.2 x 5.8 in.)
Mounting	<ul style="list-style-type: none">• 2 x ¼ in. -20• 1 x 3/8 in. -16• 4 x #10-24• Side: 3x ¼ in. -20 (each side)

Supplies & accessories:

P/N: 29422-201

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Website

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Detector data	
Detector Type	FLIR Indium Antimonide (InSb)
Spectral Range	3.0 – 5.0 μm
Resolution	1280 x 1024
Detector Pitch	12 μm
Thermal Sensitivity/NETD	< 20 mK
Well Capacity	Gain 0: 3.0 Me-, Gain 1: 11.5 Me-
Operability	> 99.5% (> 99.9% typical)
Sensor Cooling	Linear Sterling Cooler

Electronics	
Readout Type	Snapshot
Readout Modes	Asynchronous integrate while read Asynchronous integrate then read
Synchronization Modes	Genlock, Sync-in, Sync-out
Image Time Stamp	Internal IRIG-B decoder clock TSPI accurate time stamp
Integration Time	270 ns to 687 sec
Pixel Clock	355 MHz
Frame Rate (Full Window)	Programmable; 0.0015 Hz to 1004 Hz
Subwindow Mode	Flexible windowing down to 64 x 4 (steps of 32 columns, 4 rows)
Dynamic Range	14-bit
On-Camera Image Storage	RAM (volatile): 16 GB, up to 6,100 frames, full frame SSD (non-volatile): >4 TB
Radiometric Data Streaming	Simultaneous Gigabit Ethernet (GigE Vision), Camera Link, CoaXPress (CXP)
Standard Video	HDMI, SDI, NTSC, PAL
Command and Control	GigE, USB, RS-232, Camera Link, CXP (GenICam protocol supported over GigE or CXP)

Temperature Measurement	
Standard Temperature Range	-20°C to 350°C (-4°F to 662°F)
Optional Temperature Range	Up to 1,500°C (2,732°F), Up to 2,000°C (3,632°F), Up to 3,000°C (5,432°F)



FLIR X8501sc

P/N: 29422-201

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Temperature Measurement	
Accuracy	$\pm 1^{\circ}\text{C}$ or $\pm 1\%$ of reading: <ul style="list-style-type: none">0°C to $+3000^{\circ}\text{C}$ (17 mm, 25 mm, 50 mm, 100 mm, 200 mm lenses) $\pm 2^{\circ}\text{C}$ or $\pm 2\%$ of reading: <ul style="list-style-type: none">-20°C to 0°C (17 mm, 25 mm, 50 mm, 100 mm, 200 mm lenses)-10°C to $+500^{\circ}\text{C}$ (1x & 4x Close Up lenses)

Optics	
Camera f/Number	f/2.5
Available Lenses (Uses FLIR HDC Optics)	17 mm, 25 mm, 50 mm, 100 mm, 200 mm
Close-up Lenses/Microscopes	1X, 4X
Lens Interface	FLIR HDC (4-tab bayonet)
Focus	Manual
Filtering	4-position motorized filter wheel, standard 1-inch filters

Image/Video Presentation	
Palettes	Selectable 8-bit
Automatic Gain Control	Manual, Linear, Plateau equalization, ROI, DDE
Overlay	Customizable (IRIG-B, Date, Integration time, Internal temp, Frame rate, Sync mode, Cooler hours)
Video Modes	HD: 720p/50/59.9 Hz, 1080p/25/29.9 Hz, SD: NTSC, PAL
Digital Zoom	1x, 4x, 4:3

General	
Operating Temperature Range	-20°C to 50°C (-4°F to 122°F)
Shock/Vibration	40 g, 11 msec $\frac{1}{2}$ sine pulse/4.3 g RMS random vibration, all 3 axes
Power	24 VDC (< 50 W steady state)
Weight w/Handle, w/o Lens	6.35 kg (14 lbs)
Size (L x W x H) w/o Lens, Handle	249 x 158 x 147 mm (9.8 x 6.2 x 5.8 in.)
Mounting	2 x $\frac{1}{4}$ in. -20 1 x $\frac{3}{8}$ in. -16 4 x #10 -24 Side: 3x $\frac{1}{4}$ in. -20 (each side) <ul style="list-style-type: none">2 x $\frac{1}{4}$ in. -201 x $\frac{3}{8}$ in. -164 x #10-24Side: 3x $\frac{1}{4}$ in. -20 (each side)

Supplies & accessories:

- 4203499; Lens 3-5 um 100 mm f/2.5 HDC Bayonet
- 4205267; Lens 3-5 um 17 mm f/2.5 HDC Bayonet
- 4205268; Lens 3-5 um 200 mm f/2.5 HDC Bayonet
- 4203497; Lens 3-5 um 25 mm f/2.5 HDC Bayonet
- 4203498; Lens 3-5 um 50 mm f/2.5 HDC Bayonet
- 29425-001; Lens, 3-5 um, 1X microscope, f/4 HDC Bayonet
- 29425-004; Lens, 3-5 um, 4X microscope, f/4 HDC Bayonet

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Detector data	
Detector Type	Strained-Layer Superlattice
Spectral Range	7.5 - 12 microns
Resolution	1280 x 1024
Detector Pitch	12 μ m
Thermal Sensitivity/NETD	< 20 mK
Well Capacity	Gain 0: 3.0 Me-, Gain 1: 11.5 Me-
Operability	> 99.5% (> 99.9% typical)
Sensor Cooling	Linear Sterling Cooler

Electronics	
Readout Type	Snapshot
Readout Modes	Asynchronous integrate while read Asynchronous integrate then read
Synchronization Modes	Genlock, Sync-in, Sync-out
Image Time Stamp	Internal IRIG-B decoder clock TSPI accurate time stamp
Integration Time	270 ns to 687 sec
Pixel Clock	355 MHz
Frame Rate (Full Window)	Programmable; 0.0015 Hz to 181 Hz
Subwindow Mode	Flexible windowing down to 64 x 4 (steps of 64 columns, 4 rows)
Dynamic Range	14-bit
On-Camera Image Storage	RAM (volatile): 16 GB, up to 6,100 frames, full frame SSD (non-volatile): >4 TB
Radiometric Data Streaming	Simultaneous Gigabit Ethernet (GigE Vision), Camera Link, CoaXPress (CXP)
Standard Video	HDMI, SDI, NTSC, PAL
Command and Control	GigE, USB, RS-232, Camera Link, CXP (GenICam protocol supported over GigE or CXP)

Temperature Measurement	
Standard Temperature Range	-20°C to 350°C (-4°F to 662°F)
Optional Temperature Range	Up to 1,500°C (2,732°F), Up to 2,000°C (3,632°F), Up to 3,000°C (5,432°F)



FLIR X8501sc SLS

P/N: 29428-201

Revision

47475

Last modified

2018-02-06 11:12 UTC+1

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Temperature Measurement	
Accuracy	$\pm 1^\circ\text{C}$ or $\pm 1\%$ of reading: <ul style="list-style-type: none">0°C to $+3000^\circ\text{C}$ (25 mm, 50 mm, 100 mm lenses) $\pm 2^\circ\text{C}$ or $\pm 2\%$ of reading: <ul style="list-style-type: none">-20°C to 0°C (25 mm, 50 mm, 100 mm lenses)

Optics	
Camera f/Number	f/2.5
Available Lenses (Uses FLIR HDC Optics)	25 mm, 50 mm, 100 mm
Close-up Lenses/Microscopes	1X
Lens Interface	FLIR HDC (4-tab bayonet)
Focus	Manual
Filtering	4-position motorized filter wheel, standard 1-inch filters

Image/Video Presentation	
Palettes	Selectable 8-bit
Automatic Gain Control	Manual, Linear, Plateau equalization, ROI, DDE
Overlay	Customizable (IRIG-B, Date, Integration time, Internal temp, Frame rate, Sync mode, Cooler hours)
Video Modes	HD: 720p/50/59.9 Hz, 1080p/25/29.9 Hz, SD: NTSC, PAL
Digital Zoom	1x, 4x, 4:3

General	
Operating Temperature Range	-20°C to 50°C (-4°F to 122°F)
Shock/Vibration	40 g, 11 msec $\frac{1}{2}$ sine pulse/4.3 g RMS random vibration, all 3 axes
Power	24 VDC (< 50 W steady state)
Weight w/Handle, w/o Lens	6.35 kg (14 lbs)
Size (L x W x H) w/o Lens, Handle	249 x 158 x 147 mm (9.8 x 6.2 x 5.8 in.)
Mounting	<ul style="list-style-type: none">2 x $\frac{1}{4}$ in. -201 x $\frac{3}{8}$ in. -164 x #10 -24Side: 3x $\frac{1}{4}$ in. -20 (each side)

Supplies & accessories:

- 4209169; Lens 7.5-12 μm 100 mm f/2.5 HDC Bayonet
- 4209167; Lens 7.5-12 μm 25 mm f/2.5 HDC Bayonet
- 4209168; Lens 7.5-12 μm 50 mm f/2.5 HDC Bayonet

P/N: 29422-202

Revision

47476

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Detector data	
Detector Type	FLIR Indium Antimonide (InSb)
Spectral Range	1.5 – 5.0 μm
Resolution	1280 x 1024
Detector Pitch	12 μm
Thermal Sensitivity/NETD	< 20 mK
Well Capacity	Gain 0: 3.0 Me-, Gain 1: 11.5 Me-
Operability	> 99.5% (> 99.9% typical)
Sensor Cooling	Linear Sterling Cooler

Electronics	
Readout Type	Snapshot
Readout Modes	Asynchronous integrate while read Asynchronous integrate then read
Synchronization Modes	Genlock, Sync-in, Sync-out
Image Time Stamp	Internal IRIG-B decoder clock TSPI accurate time stamp
Integration Time	270 ns to 687 sec
Pixel Clock	355 MHz
Frame Rate (Full Window)	Programmable; 0.0015 Hz to 181 Hz
Subwindow Mode	Flexible windowing down to 64 x 4 (steps of 64 columns, 4 rows)
Dynamic Range	14-bit
On-Camera Image Storage	RAM (volatile): 16 GB, up to 6,100 frames, full frame SSD (non-volatile): >4 TB
Radiometric Data Streaming	Simultaneous Gigabit Ethernet (GigE Vision), Camera Link, CoaXPress (CXP)
Standard Video	HDMI, SDI, NTSC, PAL
Command and Control	GigE, USB, RS-232, Camera Link, CXP (GenICam protocol supported over GigE or CXP)

Temperature Measurement	
Standard Temperature Range	-20°C to 350°C (-4°F to 662°F)
Optional Temperature Range	Up to 1,500°C (2,732°F), Up to 2,000°C (3,632°F), Up to 3,000°C (5,432°F)



FLIR X8502sc

P/N: 29422-202

Revision

47476

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Temperature Measurement	
Accuracy	$\pm 1^\circ\text{C}$ or $\pm 1\%$ of reading: <ul style="list-style-type: none">• 0°C to $+3000^\circ\text{C}$ (25 mm, 50 mm, 100 mm lenses) $\pm 2^\circ\text{C}$ or $\pm 2\%$ of reading: <ul style="list-style-type: none">• -20°C to 0°C (25 mm, 50 mm, 100 mm lenses)

Optics	
Camera f/Number	f/4.1
Available Lenses (Uses FLIR HDC Optics)	25 mm, 50 mm, 100 mm
Close-up Lenses/Microscopes	N/A
Lens Interface	FLIR HDC (4-tab bayonet)
Focus	Manual
Filtering	4-position motorized filter wheel, standard 1-inch filters

Image/Video Presentation	
Palettes	Selectable 8-bit
Automatic Gain Control	Manual, Linear, Plateau equalization, ROI, DDE
Overlay	Customizable (IRIG-B, Date, Integration time, Internal temp, Frame rate, Sync mode, Cooler hours)
Video Modes	HD: 720p/50/59.9 Hz, 1080p/25/29.9 Hz, SD: NTSC, PAL
Digital Zoom	1x, 4x, 4:3

General	
Operating Temperature Range	-20°C to 50°C (-4°F to 122°F)
Shock/Vibration	40 g, 11 msec $\frac{1}{2}$ sine pulse/4.3 g RMS random vibration, all 3 axes
Power	24 VDC (< 50 W steady state)
Weight w/Handle, w/o Lens	6.35 kg (14 lbs)
Size (L x W x H) w/o Lens, Handle	249 x 158 x 147 mm (9.8 x 6.2 x 5.8 in.)
Mounting	<ul style="list-style-type: none">• 2 x $\frac{1}{4}$ in. -20• 1 x $\frac{3}{8}$ in. -16• 4 x #10-24• Side: 3x $\frac{1}{4}$ in. -20 (each side)

Supplies & accessories:

- 29425-100; Lens 1-5 μm 100 mm f/2.5 HDC Bayonet
- 29425-025; Lens 1-5 μm 25 mm f/2.5 HDC Bayonet
- 29425-050; Lens 1-5 μm 50 mm f/2.5 HDC Bayonet

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Revision

44565

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2017-08-29 14:40 UTC+1

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Website

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Customer support

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Detector data	
Detector Type	Strained-Layer Superlattice
Spectral Range	3 - 12 μm
Resolution	1280 x 1024
Detector Pitch	12 μm
Thermal Sensitivity/NETD	< 20 mK
Well Capacity	Gain 0: 3.0 Me-, Gain 1: 11.5 Me-
Operability	> 99.5% (> 99.9% typical)
Sensor Cooling	Linear Sterling Cooler

Electronics	
Readout Type	Snapshot
Readout Modes	Asynchronous integrate while read Asynchronous integrate then read
Synchronization Modes	Genlock, Sync-in, Sync-out
Image Time Stamp	Internal IRIG-B decoder clock TSPI accurate time stamp
Integration Time	270 ns to 687 sec
Pixel Clock	355 MHz
Frame Rate (Full Window)	Programmable; 0.0015 Hz to 181 Hz
Subwindow Mode	Flexible windowing down to 64 x 4 (steps of 64 columns, 4 rows)
Dynamic Range	14-bit
On-Camera Image Storage	RAM (volatile): 16 GB, up to 6,100 frames, full frame SSD (non-volatile): >4 TB
Radiometric Data Streaming	Simultaneous Gigabit Ethernet (GigE Vision), Camera Link, CoaXPress (CXP)
Standard Video	HDMI, SDI, NTSC, PAL
Command and Control	GigE, USB, RS-232, Camera Link, CXP (GenICam protocol supported over GigE or CXP)

Temperature Measurement	
Standard Temperature Range	No calibrations available
Optional Temperature Range	No calibrations available



FLIR X8502sc SLS

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Website

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Temperature Measurement	
Accuracy	No calibrations available

Optics	
Camera f/Number	f/2.5
Available Lenses (Uses FLIR HDC Optics)	No lenses available
Close-up Lenses/Microscopes	No microscopes available
Lens Interface	FLIR HDC (4-tab bayonet)
Focus	Manual
Filtering	4-position motorized filter wheel, standard 1-inch filters

Image/Video Presentation	
Palettes	Selectable 8-bit
Automatic Gain Control	Manual, Linear, Plateau equalization, ROI, DDE
Overlay	Customizable (IRIG-B, Date, Integration time, Internal temp, Frame rate, Sync mode, Cooler hours)
Video Modes	HD: 720p/50/59.9 Hz, 1080p/25/29.9 Hz, SD: NTSC, PAL
Digital Zoom	1x, 4x, 4:3

General	
Operating Temperature Range	-20°C to 50°C (-4°F to 122°F)
Shock/Vibration	40 g, 11 msec ½ sine pulse/4.3 g RMS random vibration, all 3 axes
Power	24 VDC (< 50 W steady state)
Weight w/Handle, w/o Lens	6.35 kg (14 lbs)
Size (L x W x H) w/o Lens, Handle	249 x 158 x 147 mm (9.8 x 6.2 x 5.8 in.)
Mounting	<ul style="list-style-type: none">• 2 x ¼ in. -20• 1 x 3/8 in. -16• 4 x #10 -24• Side: 3x ¼ in. -20 (each side)

Supplies & accessories:

P/N: 29428-203

Revision

47477

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Website

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Detector data	
Detector Type	Strained-Layer Superlattice
Spectral Range	7.5 - 12 μm
Resolution	1280 x 1024
Detector Pitch	12 μm
Thermal Sensitivity/NETD	< 20 mK
Well Capacity	Gain 0: 3.0 Me-, Gain 1: 11.5 Me-
Operability	> 99.5% (> 99.9% typical)
Sensor Cooling	Linear Sterling Cooler

Electronics	
Readout Type	Snapshot
Readout Modes	Asynchronous integrate while read Asynchronous integrate then read
Synchronization Modes	Genlock, Sync-in, Sync-out
Image Time Stamp	Internal IRIG-B decoder clock TSPI accurate time stamp
Integration Time	270 ns to 687 sec
Pixel Clock	355 MHz
Frame Rate (Full Window)	Programmable; 0.0015 Hz to 181 Hz
Subwindow Mode	Flexible windowing down to 64 x 4 (steps of 64 columns, 4 rows)
Dynamic Range	14-bit
On-Camera Image Storage	RAM (volatile): 16 GB, up to 6,100 frames, full frame SSD (non-volatile): >4 TB
Radiometric Data Streaming	Simultaneous Gigabit Ethernet (GigE Vision), Camera Link, CoaXPress (CXP)
Standard Video	HDMI, SDI, NTSC, PAL
Command and Control	GigE, USB, RS-232, Camera Link, CXP (GenICam protocol supported over GigE or CXP)

Temperature Measurement	
Standard Temperature Range	-20°C to 650°C (-4°F to 1202°F)
Optional Temperature Range	Up to 1,500°C (2,732°F), Up to 2,000°C (3,632°F), Up to 3,000°C (5,432°F)



FLIR X8503sc SLS

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Temperature Measurement	
Accuracy	$\pm 1^{\circ}\text{C}$ or $\pm 1\%$ of reading: <ul style="list-style-type: none">0°C to $+3000^{\circ}\text{C}$ (25 mm, 50 mm, 100 mm lenses) $\pm 2^{\circ}\text{C}$ or $\pm 2\%$ of reading: <ul style="list-style-type: none">-20°C to 0°C (25 mm, 50 mm, 100 mm lenses)

Optics	
Camera f/Number	f/4
Available Lenses (Uses FLIR HDC Optics)	25 mm, 50 mm, 100 mm
Close-up Lenses/Microscopes	1X
Lens Interface	FLIR HDC (4-tab bayonet)
Focus	Manual
Filtering	4-position motorized filter wheel, standard 1-inch filters

Image/Video Presentation	
Palettes	Selectable 8-bit
Automatic Gain Control	Manual, Linear, Plateau equalization, ROI, DDE
Overlay	Customizable (IRIG-B, Date, Integration time, Internal temp, Frame rate, Sync mode, Cooler hours)
Video Modes	HD: 720p/50/59.9 Hz, 1080p/25/29.9 Hz, SD: NTSC, PAL
Digital Zoom	1x, 4x, 4:3

General	
Operating Temperature Range	-20°C to 50°C (-4°F to 122°F)
Shock/Vibration	40 g, 11 msec $\frac{1}{2}$ sine pulse/4.3 g RMS random vibration, all 3 axes
Power	24 VDC (< 50 W steady state)
Weight w/Handle, w/o Lens	6.35 kg (14 lbs)
Size (L x W x H) w/o Lens, Handle	249 x 158 x 147 mm (9.8 x 6.2 x 5.8 in.)
Mounting	<ul style="list-style-type: none">2 x $\frac{1}{4}$ in. -201 x $\frac{3}{8}$ in. -164 x #10 -24Side: 3x $\frac{1}{4}$ in. -20 (each side)

Supplies & accessories:

- 4209169; Lens 7.5-12 μm 100 mm f/2.5 HDC Bayonet
- 4209167; Lens 7.5-12 μm 25 mm f/2.5 HDC Bayonet
- 4209168; Lens 7.5-12 μm 50 mm f/2.5 HDC Bayonet

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Revision

44562

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Website

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Customer support

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Detector data	
Detector Type	FLIR Indium Antimonide (InSb)
Spectral Range	3.0 – 5.0 μm
Resolution	1280 x 1024
Detector Pitch	12 μm
Thermal Sensitivity/NETD	< 20 mK
Well Capacity	Gain 0: 3.0 Me-, Gain 1: 11.5 Me-
Operability	> 99.5% (> 99.9% typical)
Sensor Cooling	Linear Sterling Cooler

Electronics	
Readout Type	Snapshot
Readout Modes	Asynchronous integrate while read Asynchronous integrate then read
Synchronization Modes	Genlock, Sync-in, Sync-out
Image Time Stamp	Internal IRIG-B decoder clock TSPI accurate time stamp
Integration Time	270 ns to 687 sec
Pixel Clock	355 MHz
Frame Rate (Full Window)	Programmable; 0.0015 Hz to 181 Hz
Subwindow Mode	Flexible windowing down to 64 x 4 (steps of 64 columns, 4 rows)
Dynamic Range	14-bit
On-Camera Image Storage	RAM (volatile): 16 GB, up to 6,100 frames, full frame SSD (non-volatile): >4 TB
Radiometric Data Streaming	Simultaneous Gigabit Ethernet (GigE Vision), Camera Link, CoaXPress (CXP)
Standard Video	HDMI, SDI, NTSC, PAL
Command and Control	GigE, USB, RS-232, Camera Link, CXP (GenICam protocol supported over GigE or CXP)

Temperature Measurement	
Standard Temperature Range	-20°C to 350°C (-4°F to 662°F)
Optional Temperature Range	Up to 1,500°C (2,732°F) Up to 3,000°C (5,432°F)



FLIR X8503sc

P/N: 29422-203

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Temperature Measurement	
Accuracy	$\pm 1^{\circ}\text{C}$ or $\pm 1\%$ of reading: <ul style="list-style-type: none">0°C to $+3000^{\circ}\text{C}$ (17 mm, 25 mm, 50 mm, 100 mm, 200 mm lenses) $\pm 2^{\circ}\text{C}$ or $\pm 2\%$ of reading: <ul style="list-style-type: none">-20°C to 0°C (17 mm, 25 mm, 50 mm, 100 mm, 200 mm lenses)-10°C to $+500^{\circ}\text{C}$ (1x & 4x Close Up lenses)

Optics	
Camera f/Number	f/4.1
Available Lenses (Uses FLIR HDC Optics)	17 mm, 25 mm, 50 mm, 100 mm, 200 mm
Close-up Lenses/Microscopes	1x, 4x (3-5 μm)
Lens Interface	FLIR HDC (4-tab bayonet)
Focus	Manual
Filtering	4-position motorized filter wheel, standard 1-inch filters

Image/Video Presentation	
Palettes	Selectable 8-bit
Automatic Gain Control	Manual, Linear, Plateau equalization, ROI, DDE
Overlay	Customizable (IRIG-B, Date, Integration time, Internal temp, Frame rate, Sync mode, Cooler hours)
Video Modes	HD: 720p/50/59.9 Hz, 1080p/25/29.9 Hz, SD: NTSC, PAL
Digital Zoom	1x, 4x, 4:3

General	
Operating Temperature Range	-20°C to 50°C (-4°F to 122°F)
Shock/Vibration	40 g, 11 msec $\frac{1}{2}$ sine pulse/4.3 g RMS random vibration, all 3 axes
Power	24 VDC (< 50 W steady state)
Weight w/Handle, w/o Lens	6.35 kg (14 lbs)
Size (L x W x H) w/o Lens, Handle	249 x 158 x 147 mm (9.8 x 6.2 x 5.8 in.)
Mounting	<ul style="list-style-type: none">2 x $\frac{1}{4}$ in. -201 x $\frac{3}{8}$ in. -164 x #10-24Side: 3x $\frac{1}{4}$ in. -20 (each side)

Supplies & accessories:

- 4203499; Lens 3-5 μm 100 mm f/2.5 HDC Bayonet
- 4205267; Lens 3-5 μm 17 mm f/2.5 HDC Bayonet
- 4205268; Lens 3-5 μm 200 mm f/2.5 HDC Bayonet
- 4203497; Lens 3-5 μm 25 mm f/2.5 HDC Bayonet
- 4203498; Lens 3-5 μm 50 mm f/2.5 HDC Bayonet
- 29425-001; Lens, 3-5 μm , 1X microscope, f/4 HDC Bayonet
- 29425-004; Lens, 3-5 μm , 4X microscope, f/4 HDC Bayonet

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P/N: T199233

Revision

32685

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Website

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Customer support

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General description

The FLIR Atlas SDK for .NET is a software development kit that enables developers to create applications. Supported by help files and sample code, developers can add functionality or collaborate with other FLIR products to get the result they want in their application.

Key features:

- Supports communication and streaming using FireWire, Gigabit, RTSP, and USB interfaces.
- Gives the user full control of the camera.
- Supports recording of images using FireWire, Gigabit, RTSP, and USB interfaces.
- Converts 16-bit signal pixels into temperature data, for maximum user flexibility.
- Allows 16-bit temperature linear, histogram, and signal outputs.

Release notes

Version	3.1
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Shipping information

Packaging, type	Cardboard box
List of contents	Download card with printed license key
Packaging, weight	0.056 kg (0.123 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558011126
UPC-12	845188012014
Country of origin	Sweden

System requirements

Operating system	<ul style="list-style-type: none"> • Windows 7 (32- and 64-bit) • Windows 8 (32- and 64-bit) • Windows 10 (32- and 64-bit)
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Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case

P/N: T199233

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- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 73309-0102; FLIR A35 f=9 mm with SC kit
- 83225-0101; FLIR A35 FOV 13 (60 Hz, ver. 2017)
- 83213-0102; FLIR A35 FOV 25 (60 Hz, ver. 2017)
- 83207-0102; FLIR A35 FOV 45 (60 Hz, ver. 2017)
- 83250-0101; FLIR A35 FOV 6.5 (60 Hz, ver. 2017)
- 83209-0102; FLIR A35 FOV 69 (30 Hz, ver. 2017)
- 73413-0102; FLIR A65 f=13 mm with SC kit (30 Hz)
- 73513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 75050-0101; FLIR A65 FOV 12.4 (30 Hz, ver. 2016)
- 75025-0101; FLIR A65 FOV 25 (30 Hz, ver. 2016)
- 75013-0101; FLIR A65 FOV 45 (30 Hz, ver. 2016)
- 75010-0101; FLIR A65 FOV 6.2 (30 Hz, ver. 2016)
- 75007-0101; FLIR A65 FOV 90 (30 Hz, ver. 2016)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°



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- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 65702-0102; FLIR GF343 24° Fixed lens
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 71502-0101; FLIR G300 a 14.5° fixed lens
- 71502-0102; FLIR G300 a 24° fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 63901-0101; FLIR E4
- 63906-0604; FLIR E4 (incl. Wi-Fi)
- 63905-0501; FLIR E5
- 63909-0904; FLIR E5 (incl. Wi-Fi)
- 63902-0202; FLIR E6
- 63907-0704; FLIR E6 (incl. Wi-Fi)
- 63903-0303; FLIR E8
- 63908-0805; FLIR E8 (incl. Wi-Fi)
- 72001-0101; FLIR C2
- 72002-0202; FLIR C2 Educational Kit
- 72003-0303; FLIR C3 (incl. Wi-Fi)
- 72003-0404; FLIR C3 (incl. Wi-Fi) Educational Kit

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General description	
The FLIR Atlas SDK for MATLAB is a software development kit that enables developers to create applications. Supported by help files and sample code, developers can add functionality or collaborate with other FLIR products to get the result they want in their application.	
Key features:	
<ul style="list-style-type: none"> • Supports communication and streaming using FireWire, Gigabit, RTSP, and USB interfaces. • Gives the user full control of the camera. • Supports recording of images using FireWire, Gigabit, RTSP, and USB interfaces. • Converts 16-bit signal pixels into temperature data, for maximum user flexibility. • Allows 16-bit temperature linear, histogram, and signal outputs. 	
Release notes	
Version	3.1
Shipping information	
Packaging, type	Cardboard box
List of contents	Download card with printed license key
Packaging, weight	0.056 kg (0.123 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558011133
UPC-12	845188012021
Country of origin	Sweden
System requirements	
Operating system	MATLAB 2015 (32- and 64-bit) and one of the following operating systems: <ul style="list-style-type: none"> • Windows 7 (32- and 64-bit) • Windows 8 (32- and 64-bit) • Windows 10 (32- and 64-bit)

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)

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- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 73309-0102; FLIR A35 f=9 mm with SC kit
- 83225-0101; FLIR A35 FOV 13 (60 Hz, ver. 2017)
- 83213-0102; FLIR A35 FOV 25 (60 Hz, ver. 2017)
- 83207-0102; FLIR A35 FOV 45 (60 Hz, ver. 2017)
- 83250-0101; FLIR A35 FOV 6.5 (60 Hz, ver. 2017)
- 83209-0102; FLIR A35 FOV 69 (30 Hz, ver. 2017)
- 73413-0102; FLIR A65 f=13 mm with SC kit (30 Hz)
- 73513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 75050-0101; FLIR A65 FOV 12.4 (30 Hz, ver. 2016)
- 75025-0101; FLIR A65 FOV 25 (30 Hz, ver. 2016)
- 75013-0101; FLIR A65 FOV 45 (30 Hz, ver. 2016)
- 75010-0101; FLIR A65 FOV 6.2 (30 Hz, ver. 2016)
- 75007-0101; FLIR A65 FOV 90 (30 Hz, ver. 2016)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°

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- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 65702-0102; FLIR GF343 24° Fixed lens
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 71502-0101; FLIR G300 a 14.5° fixed lens
- 71502-0102; FLIR G300 a 24° fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 63901-0101; FLIR E4
- 63906-0604; FLIR E4 (incl. Wi-Fi)
- 63905-0501; FLIR E5
- 63909-0904; FLIR E5 (incl. Wi-Fi)
- 63902-0202; FLIR E6
- 63907-0704; FLIR E6 (incl. Wi-Fi)
- 63903-0303; FLIR E8
- 63908-0805; FLIR E8 (incl. Wi-Fi)
- 72001-0101; FLIR C2
- 72002-0202; FLIR C2 Educational Kit
- 72003-0303; FLIR C3 (incl. Wi-Fi)
- 72003-0404; FLIR C3 (incl. Wi-Fi) Educational Kit

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General description

The FLIR BHP SDK allows users of A6600/A6200sc/A6700sc/A8300sc/SC6x00/SC8x00/RS6700 series cameras to integrate camera control and GigE data streaming into their own applications.

The BHP SDK provides C/C++ functions to control all available camera operations. The SDK is in the form of a Visual Studio project that includes integrated help and many example programs to demonstrate how to use the various functions.

Main features:

- Supplies functions for all camera control features.
- Functions for GigE streaming.
- Functions for accessing temperature-calibrated data.
- Designed specifically for Visual Studio 2012 but Visual Studio 2008, 2010, and 2013 are supported.
- C#.NET wrappers are included.
- Integrated help.
- A large amount of sample code is provided.

Download

Download your copy of FLIR BHP SDK here (password required):

<http://support.flir.com/bhpsdk>

Shipping information

Packaging, type	Cardboard box
List of contents	FLIR BHP SDK download card, incl. password.
Packaging, weight	0.068 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558010501
UPC-12	845188011154
Country of origin	Sweden

Compatible with the following products:

- 24048-200; FLIR SC6700
- 29249-203; FLIR A6700sc InSb, 3 - 5 μm, 640x512, w/ResearchIR Max

P/N: DSW-10000

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Disclaimer

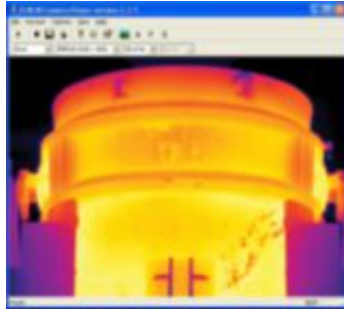
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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

FLIR IR Camera Player is a PC-based remote control and viewer that you can use with cameras from FLIR Systems.

You can perform one or more of the following with FLIR IR Camera Player:

- Record a video stream from the camera.
- Save a frame from the video stream as a snapshot image (*.bmp).
- Autofocus, focus far, and focus near.
- Autoadjust the camera image.
- Freeze the camera image.
- Save a camera image in the camera.
- Change Color palette.
- Add an image description and a text comment to an image.

You connect a camera in one of the following ways:

- Ethernet
- FireWire
- USB

Download

This software is a freeware. To download, click the following link:

<http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=89>

Release notes

Version	2.3.3
New features	<p>Main improvements in version 2.3.3:</p> <ul style="list-style-type: none"> • Added latest device drivers (1.9.1.0). • Various bugfixes <p>Main improvements in version 2.2.7:</p> <ul style="list-style-type: none"> • Added support for FLIR Ax5 series.

System requirements

Operating system	<ul style="list-style-type: none"> • Windows XP, 32-bit • Windows Vista, 32-bit/64-bit • Windows 7, 32-bit/64-bit
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Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)



FLIR IR Camera Player

P/N: DSW-10000

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 73309-0102; FLIR A35 f=9 mm with SC kit
- 83225-0101; FLIR A35 FOV 13 (60 Hz, ver. 2017)
- 83213-0102; FLIR A35 FOV 25 (60 Hz, ver. 2017)
- 83207-0102; FLIR A35 FOV 45 (60 Hz, ver. 2017)
- 83250-0101; FLIR A35 FOV 6.5 (60 Hz, ver. 2017)
- 83209-0102; FLIR A35 FOV 69 (30 Hz, ver. 2017)
- 73413-0102; FLIR A65 f=13 mm with SC kit (30 Hz)
- 73513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 75050-0101; FLIR A65 FOV 12.4 (30 Hz, ver. 2016)
- 75025-0101; FLIR A65 FOV 25 (30 Hz, ver. 2016)
- 75013-0101; FLIR A65 FOV 45 (30 Hz, ver. 2016)
- 75010-0101; FLIR A65 FOV 6.2 (30 Hz, ver. 2016)
- 75007-0101; FLIR A65 FOV 90 (30 Hz, ver. 2016)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)



FLIR Platinum SDK

P/N: T128379ACC

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

General description
The FLIR Platinum SDK allows users of X6500sc-series and X8400sc-series cameras to integrate camera control and GigE data streaming into their own applications. The Platinum SDK provides C/C++ functions to control all available function of the camera. The SDK is in the form of a Visual Studio project which includes integrated help and many example programs to demonstrate how to use the various functions.
Main features:
<ul style="list-style-type: none">• Supplies functions for all camera control features.• Functions for GigE streaming.• Functions for accessing temperature calibrated data.• Designed specifically for Visual Studio 2012 but VS2008, 2010, and 2013 are supported.• C#/ .NET wrappers are included.• Integrated help.• A large amount of sample code is provided.

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• FLIR Platinum SDK download card.
Packaging, weight	0.135 kg (0.30 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558009765
UPC-12	845188010300
Country of origin	Sweden

Compatible with the following products:

- 66601-0101; FLIR X6530sc
- 66602-0202; FLIR X6530sc M80
- 66701-0101; FLIR X6540sc
- 66702-0202; FLIR X6540sc M80
- 67801-0101; FLIR X6541sc MW
- 66801-0101; FLIR X6580sc
- 66802-0202; FLIR X6580sc M80
- 66901-0101; FLIR X8400sc

P/N: T198586

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
FLIR Reporter Professional is a powerful software for creating compelling and professional, fully customized, easy-to-interpret maintenance reports.	
Professional Report Wizard guides you step-by-step in combining all IR inspection data - infrared and visual images, temperature measurements, and text notes – into a professional, easy-to-interpret maintenance report.	
Key features:	
<ul style="list-style-type: none"> • Flexible report page design and layout for customized reports • Use quick insert function to easily create custom report pages • Fully integrated with standard Microsoft Word • Generates reports in standard MS Office format and PDF-format • Powerful temperature analysis • Triple Fusion Picture-in-Picture (movable, sizable, scalable) • Rapid report manager supporting automatic report generation by drag-and-drop • Support for MSX (Multi-Spectral Dynamic Imaging) images • Support for sketch images in both IR and visual with on/off toggling • Support for same FOV ("Field of View Match") • Grid settings • Trending functionality • Automatic link to Google™ Maps for images with GPS coordinates • Automatic summary table for the report • Fine tune images and make full temperature analysis directly in Microsoft Word • Spell check • Create your own formulas including measurement values from images • Play radiometric sequences directly in the report • Search functionality to quickly finding images for your report • Panorama tool for combining several images to a larger image • Support for GF series IR images • Auto Update function • Support for METERLiNK™ data • *.docx compatibility 	

Download	
Download your copy of FLIR Reporter Professional here:	
http://support.flir.com/reporter	

Release notes	
Version	9.2
New features	<p>News in 9.2</p> <ul style="list-style-type: none"> • Option to hide Zoom Viewer • Option to extract Visual image from MSI/Fusion image. • Support for the new FLIR Ex and Exx series cameras. • Support for multispectral images. • Support for auto-oriented images. • Various bug fixes.



FLIR Reporter Professional (license only)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">FLIR Reporter Professional scratchcard
Packaging, weight	0.135 kg (0.3 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005286 4743254001893 (Estonia plant)
UPC-12	845188005498
Country of origin	Sweden

System requirements	
Operating system	<ul style="list-style-type: none">Windows 7, 32-bitWindows 7, 64-bitWindows 8, 32-bitWindows 8, 64-bitWindows 10, 32-bitWindows 10, 64-bit
Software requirements	<ul style="list-style-type: none">Office 2007 (32-bit)Office 2010 (32-bit)Office 2013 (32-bit)Office 2016 (32-bit)

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

P/N: T198697

Revision

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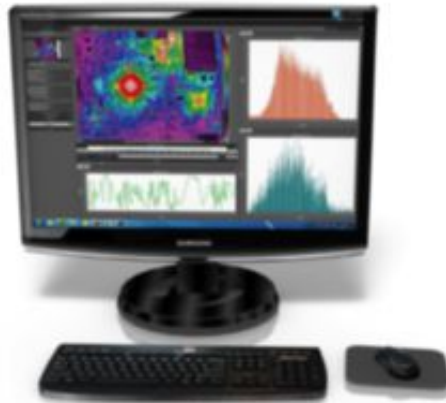
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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description
FLIR ResearchIR Max + HSDR 4 contains all the features of FLIR ResearchIR Max 4, plus support for FLIR High Speed Data Recorder (HSDR) products.
Main features:
<ul style="list-style-type: none"> • Pre/post-recording. • Mathematical processing toolbox. • Image filtering toolbox. • Radiometric digital detail enhancement (DDE) improves dramatically the understanding of the thermal image, while maintaining radiometric measurement accuracy. • View, record and store images at high speed. • Post-processing of fast thermal events. • Generate time-temperature plots from live images or recorded sequences. • Advanced start/stop recording conditions. • Unlimited number of analysis functions (spot, line, area). • File organizer. • Zoom and pan allows a closer look. • Multiple dockable objects for plots and statistics. • Export images and results to bitmap, video, Excel, MATLAB or CSV formats • Local scale gain control on measurement - automatically adjusts the contrast in a specific part of the image.
FLIR ResearchIR Max + HSDR 4 in combination with a FLIR thermal imaging camera is the perfect solution for any R&D or scientific application. It will allow researchers in all fields to make the smallest of temperature differences visible and to thoroughly analyze the thermal process in real-time.

Download
Download your copy of FLIR ResearchIR Max + HSDR 4 here (hardware security device required to run the software):
http://support.flir.com/rir4

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • FLIR ResearchIR Max + HSDR 4 download card. • Hardware security device.
Packaging, weight	0.068 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558007280
UPC-12	845188007652
Country of origin	Sweden

Compatible with the following products:

- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°



FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)

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Website

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Customer support

<http://support.flir.com>

- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens



FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)

P/N: T198697

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

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Website

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<http://support.flir.com>



General description

FLIR ResearchIR Max + HSDR 4 contains all the features of FLIR ResearchIR Max 4, plus support for FLIR High Speed Data Recorder (HSDR) products.

Main features:

- Pre/post-recording.
- Mathematical processing toolbox.
- Image filtering toolbox.
- Radiometric digital detail enhancement (DDE) improves dramatically the understanding of the thermal image, while maintaining radiometric measurement accuracy.
- View, record and store images at high speed.
- Post-processing of fast thermal events.
- Generate time-temperature plots from live images or recorded sequences.
- Advanced start/stop recording conditions.
- Unlimited number of analysis functions (spot, line, area).
- File organizer.
- Zoom and pan allows a closer look.
- Multiple dockable objects for plots and statistics.
- Export images and results to bitmap, video, Excel, MATLAB or CSV formats
- Local scale gain control on measurement - automatically adjusts the contrast in a specific part of the image.

FLIR ResearchIR Max + HSDR 4 in combination with a FLIR thermal imaging camera is the perfect solution for any R&D or scientific application. It will allow researchers in all fields to make the smallest of temperature differences visible and to thoroughly analyze the thermal process in real-time.

Download

Download your copy of FLIR ResearchIR Max + HSDR 4 here (evaluation copy only – license key required):

<http://support.flir.com/rir4>

Shipping information

Packaging, type	Cardboard box
List of contents	FLIR ResearchIR Max + HSDR 4 download card, incl. license key.
Packaging, weight	0.068 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558010464
UPC-12	845188011116
Country of origin	Sweden

Compatible with the following products:

- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case



FLIR ResearchIR Max + HSDR 4 (printed license key)

P/N: T199014

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)



FLIR ResearchIR Max + HSDR 4 (printed license key)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

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Main features:

- Pre/post-recording.
- Mathematical processing toolbox.
- Image filtering toolbox.
- Radiometric digital detail enhancement (DDE) improves dramatically the understanding of the thermal image, while maintaining radiometric measurement accuracy.
- View, record and store images at high speed.
- Post-processing of fast thermal events.
- Generate time-temperature plots from live images or recorded sequences.
- Advanced start/stop recording conditions.
- Unlimited number of analysis functions (spot, line, area).
- File organizer.
- Zoom and pan allows a closer look.
- Multiple dockable objects for plots and statistics.
- Export images and results to bitmap, video, Excel, MATLAB or CSV formats
- Local scale gain control on measurement - automatically adjusts the contrast in a specific part of the image.

FLIR ResearchIR Max + HSDR 4 in combination with a FLIR thermal imaging camera is the perfect solution for any R&D or scientific application. It will allow researchers in all fields to make the smallest of temperature differences visible and to thoroughly analyze the thermal process in real-time.

Download

Download your copy of FLIR ResearchIR Max + HSDR 4 here (evaluation copy only – license key required):

<http://support.flir.com/rir4>

Shipping information

Packaging, type	Cardboard box
List of contents	FLIR ResearchIR Max + HSDR 4 download card, incl. license key.
Packaging, weight	0.068 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558010495
UPC-12	845188011147
Country of origin	Sweden

Compatible with the following products:

- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case



FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)



FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)

P/N: T199044

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

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General description

FLIR ResearchIR Max 4 is aimed at R&D and science professionals who use thermal imaging cameras with a cooled or uncooled detectors. FLIR ResearchIR Max makes the most of a thermal imaging camera, and allows high-speed recording and advanced thermal pattern analysis. FLIR ResearchIR Max is the perfect tool for industrial R&D.

Main features:

- Pre/post-recording.
- Mathematical processing toolbox.
- Image filtering toolbox.
- Radiometric digital detail enhancement (DDE) improves dramatically the understanding of the thermal image, while maintaining radiometric measurement accuracy.
- View, record and store images at high speed.
- Post-processing of fast thermal events.
- Generate time-temperature plots from live images or recorded sequences.
- Advanced start/stop recording conditions.
- Unlimited number of analysis functions (spot, line, area).
- File organizer.
- Zoom and pan allows a closer look.
- Multiple dockable objects for plots and statistics.
- Export images and results to bitmap, video, Excel, MATLAB or CSV formats
- Local scale gain control on measurement - automatically adjusts the contrast in a specific part of the image.

FLIR ResearchIR Max 4 in combination with a FLIR thermal imaging camera is the perfect solution for any R&D or scientific application. It will allow researchers in all fields to make the smallest of temperature differences visible and to thoroughly analyze the thermal process in real-time.

Download

Download your copy of FLIR ResearchIR Max 4 here (hardware security device required to run the software):

<http://support.flir.com/rir4>

Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • FLIR ResearchIR Max 4 download card. • Hardware security device.
Packaging, weight	0.066 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558007266
UPC-12	845188007638
Country of origin	Sweden

Compatible with the following products:

- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0401; FLIR T1050sc 12°



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- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°



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Website

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Customer support

<http://support.flir.com>

- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 84502-0201; FLIR E53 24°
- 78501-0101; FLIR E75 14°
- 78502-0101; FLIR E75 24°
- 78504-0101; FLIR E75 24° + 14°
- 78506-0101; FLIR E75 24° + 14° & 42°
- 78505-0101; FLIR E75 24° + 42°
- 78503-0101; FLIR E75 42°
- 78507-0101; FLIR E75 42° + 14°
- 78501-0201; FLIR E85 14°
- 78502-0201; FLIR E85 24°
- 78504-0201; FLIR E85 24° + 14°
- 78506-0201; FLIR E85 24° + 14° & 42°
- 78505-0201; FLIR E85 24° + 42°
- 78503-0201; FLIR E85 42°
- 78507-0201; FLIR E85 42° + 14°
- 78501-0301; FLIR E95 14°
- 78502-0301; FLIR E95 24°
- 78504-0301; FLIR E95 24° + 14°
- 78506-0301; FLIR E95 24° + 14° & 42°
- 78505-0301; FLIR E95 24° + 42°
- 78503-0301; FLIR E95 42°
- 78507-0301; FLIR E95 42° + 14°
- 79301-0101; FLIR T530 14°
- 79302-0101; FLIR T530 24°
- 79304-0101; FLIR T530 24° + 14°
- 79306-0101; FLIR T530 24° + 14° & 42°
- 79305-0101; FLIR T530 24° + 42°
- 79303-0101; FLIR T530 42°
- 79307-0101; FLIR T530 42° + 14°
- 79301-0201; FLIR T540 14°
- 79302-0201; FLIR T540 24°
- 79304-0201; FLIR T540 24° + 14°
- 79306-0201; FLIR T540 24° + 14° & 42°
- 79305-0201; FLIR T540 24° + 42°
- 79303-0201; FLIR T540 42°
- 79307-0201; FLIR T540 42° + 14°

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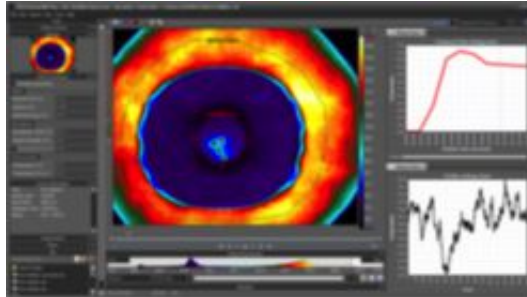
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Website

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Customer support

<http://support.flir.com>



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- Mathematical processing toolbox.
- Image filtering toolbox.
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- Post-processing of fast thermal events.
- Generate time-temperature plots from live images or recorded sequences.
- Advanced start/stop recording conditions.
- Unlimited number of analysis functions (spot, line, area).
- File organizer.
- Zoom and pan allows a closer look.
- Multiple dockable objects for plots and statistics.
- Export images and results to bitmap, video, Excel, MATLAB or CSV formats
- Local scale gain control on measurement - automatically adjusts the contrast in a specific part of the image.

FLIR ResearchIR Max 4 in combination with a FLIR thermal imaging camera is the perfect solution for any R&D or scientific application. It will allow researchers in all fields to make the smallest of temperature differences visible and to thoroughly analyze the thermal process in real-time.

Download

Download your copy of FLIR ResearchIR Max 4 here (evaluation copy only – license key required):

<http://support.flir.com/rir4>

Shipping information

Packaging, type	Cardboard box
List of contents	FLIR ResearchIR Max 4 download card, incl. license key.
Packaging, weight	0.066 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558010457
UPC-12	845188011109
Country of origin	Sweden

Compatible with the following products:

- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case



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- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
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- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 84502-0201; FLIR E53 24°
- 78501-0101; FLIR E75 14°
- 78502-0101; FLIR E75 24°
- 78504-0101; FLIR E75 24° + 14°
- 78506-0101; FLIR E75 24° + 14° & 42°
- 78505-0101; FLIR E75 24° + 42°
- 78503-0101; FLIR E75 42°
- 78507-0101; FLIR E75 42° + 14°
- 78501-0201; FLIR E85 14°
- 78502-0201; FLIR E85 24°
- 78504-0201; FLIR E85 24° + 14°
- 78506-0201; FLIR E85 24° + 14° & 42°
- 78505-0201; FLIR E85 24° + 42°
- 78503-0201; FLIR E85 42°
- 78507-0201; FLIR E85 42° + 14°
- 78501-0301; FLIR E95 14°
- 78502-0301; FLIR E95 24°
- 78504-0301; FLIR E95 24° + 14°
- 78506-0301; FLIR E95 24° + 14° & 42°
- 78505-0301; FLIR E95 24° + 42°
- 78503-0301; FLIR E95 42°
- 78507-0301; FLIR E95 42° + 14°
- 79301-0101; FLIR T530 14°
- 79302-0101; FLIR T530 24°
- 79304-0101; FLIR T530 24° + 14°
- 79306-0101; FLIR T530 24° + 14° & 42°
- 79305-0101; FLIR T530 24° + 42°
- 79303-0101; FLIR T530 42°
- 79307-0101; FLIR T530 42° + 14°
- 79301-0201; FLIR T540 14°
- 79302-0201; FLIR T540 24°
- 79304-0201; FLIR T540 24° + 14°
- 79306-0201; FLIR T540 24° + 14° & 42°
- 79305-0201; FLIR T540 24° + 42°
- 79303-0201; FLIR T540 42°
- 79307-0201; FLIR T540 42° + 14°

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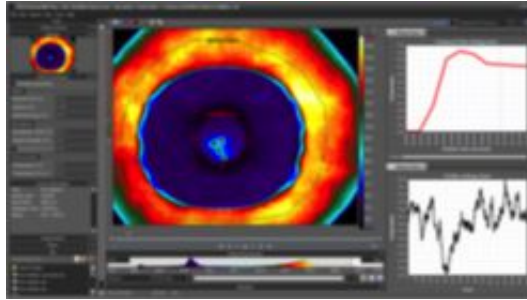
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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description
FLIR ResearchIR Max 4 is aimed at R&D and science professionals who use thermal imaging cameras with a cooled or uncooled detectors. FLIR ResearchIR Max makes the most of a thermal imaging camera, and allows high-speed recording and advanced thermal pattern analysis. FLIR ResearchIR Max is the perfect tool for industrial R&D.
Main features:
<ul style="list-style-type: none"> • Pre/post-recording. • Mathematical processing toolbox. • Image filtering toolbox. • Radiometric digital detail enhancement (DDE) improves dramatically the understanding of the thermal image, while maintaining radiometric measurement accuracy. • View, record and store images at high speed. • Post-processing of fast thermal events. • Generate time-temperature plots from live images or recorded sequences. • Advanced start/stop recording conditions. • Unlimited number of analysis functions (spot, line, area). • File organizer. • Zoom and pan allows a closer look. • Multiple dockable objects for plots and statistics. • Export images and results to bitmap, video, Excel, MATLAB or CSV formats • Local scale gain control on measurement - automatically adjusts the contrast in a specific part of the image.
FLIR ResearchIR Max 4 in combination with a FLIR thermal imaging camera is the perfect solution for any R&D or scientific application. It will allow researchers in all fields to make the smallest of temperature differences visible and to thoroughly analyze the thermal process in real-time.

Download
Download your copy of FLIR ResearchIR Max 4 here (evaluation copy only – license key required):
http://support.flir.com/rir4

Shipping information	
Packaging, type	Cardboard box
List of contents	FLIR ResearchIR Max 4 download card, incl. license key.
Packaging, weight	0.066 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558010488
UPC-12	845188011130
Country of origin	Sweden

Compatible with the following products:

- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case



FLIR ResearchIR Max 4 Upgrade (printed license key)

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Website

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Customer support

<http://support.flir.com>

- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)



FLIR ResearchIR Max 4 Upgrade (printed license key)

P/N: T199043

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Website

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Customer support

<http://support.flir.com>

- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 84502-0201; FLIR E53 24°
- 78501-0101; FLIR E75 14°
- 78502-0101; FLIR E75 24°
- 78504-0101; FLIR E75 24° + 14°
- 78506-0101; FLIR E75 24° + 14° & 42°
- 78505-0101; FLIR E75 24° + 42°
- 78503-0101; FLIR E75 42°
- 78507-0101; FLIR E75 42° + 14°
- 78501-0201; FLIR E85 14°
- 78502-0201; FLIR E85 24°
- 78504-0201; FLIR E85 24° + 14°
- 78506-0201; FLIR E85 24° + 14° & 42°
- 78505-0201; FLIR E85 24° + 42°
- 78503-0201; FLIR E85 42°
- 78507-0201; FLIR E85 42° + 14°
- 78501-0301; FLIR E95 14°
- 78502-0301; FLIR E95 24°
- 78504-0301; FLIR E95 24° + 14°
- 78506-0301; FLIR E95 24° + 14° & 42°
- 78505-0301; FLIR E95 24° + 42°
- 78503-0301; FLIR E95 42°
- 78507-0301; FLIR E95 42° + 14°
- 79301-0101; FLIR T530 14°
- 79302-0101; FLIR T530 24°
- 79304-0101; FLIR T530 24° + 14°
- 79306-0101; FLIR T530 24° + 14° & 42°
- 79305-0101; FLIR T530 24° + 42°
- 79303-0101; FLIR T530 42°
- 79307-0101; FLIR T530 42° + 14°
- 79301-0201; FLIR T540 14°
- 79302-0201; FLIR T540 24°
- 79304-0201; FLIR T540 24° + 14°
- 79306-0201; FLIR T540 24° + 14° & 42°
- 79305-0201; FLIR T540 24° + 42°
- 79303-0201; FLIR T540 42°
- 79307-0201; FLIR T540 42° + 14°

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Website

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General description	
FLIR ResearchIR Standard 4.0 is aimed at the R&D benchtop testing environment for users of uncooled cameras. FLIR ResearchIR Standard provides the core analysis tools needed for rapid testing and assessment of thermal issues.	
Main features:	
<ul style="list-style-type: none"> • View live imagery from the camera • Record snapshots or movies to disk. • Post-processing of fast thermal events. • Generate time-temperature plots from live images or recorded sequences. • Analysis by region (spot, line, area). • File organizer. • Zoom and pan allows a closer look. • Multiple dockable objects for plots and statistics. • Export images and results to bitmap, Excel, or CSV formats 	
FLIR ResearchIR Standard 4 in combination with a FLIR thermal imaging camera is the perfect solution for any benchtop testing application application.	

Shipping information	
List of contents	<ul style="list-style-type: none"> • FLIR ResearchIR Standard download card. • Hardware security device.
Packaging, weight	0.069 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558008638
UPC-12	845188009151
Country of origin	Sweden

Compatible with the following products:

- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)

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Website

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Customer support

<http://support.flir.com>

- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 78502-0101; FLIR E75 24°
- 78504-0101; FLIR E75 24° + 14°
- 78506-0101; FLIR E75 24° + 14° & 42°



P/N: T198731

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 78505-0101; FLIR E75 24° + 42°
- 78503-0101; FLIR E75 42°
- 78507-0101; FLIR E75 42° + 14°
- 78502-0201; FLIR E85 24°
- 78504-0201; FLIR E85 24° + 14°
- 78506-0201; FLIR E85 24° + 14° & 42°
- 78505-0201; FLIR E85 24° + 42°
- 78503-0201; FLIR E85 42°
- 78507-0201; FLIR E85 42° + 14°
- 78502-0301; FLIR E95 24°
- 78504-0301; FLIR E95 24° + 14°
- 78506-0301; FLIR E95 24° + 14° & 42°
- 78505-0301; FLIR E95 24° + 42°
- 78503-0301; FLIR E95 42°
- 78507-0301; FLIR E95 42° + 14°
- 79302-0101; FLIR T530 24°
- 79306-0101; FLIR T530 24° + 14° & 42°
- 79305-0101; FLIR T530 24° + 42°
- 79304-0101; FLIR T530 24° + 14°
- 79303-0101; FLIR T530 42°
- 79307-0101; FLIR T530 42° + 14°
- 79302-0201; FLIR T540 24°
- 79304-0201; FLIR T540 24° + 14°
- 79306-0201; FLIR T540 24° + 14° & 42°
- 79305-0201; FLIR T540 24° + 42°
- 79303-0201; FLIR T540 42°
- 79307-0201; FLIR T540 42° + 14°

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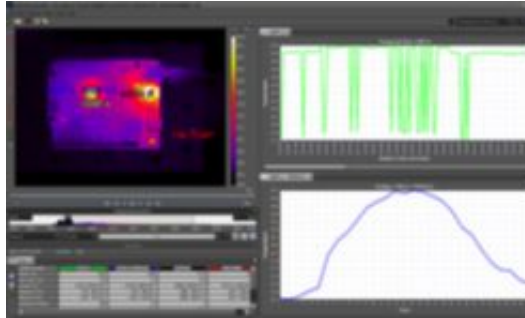
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General description
FLIR ResearchIR Standard 4 is aimed at the R&D benchtop testing environment for users of uncooled cameras. FLIR ResearchIR Standard provides the core analysis tools needed for rapid testing and assessment of thermal issues.
Main features:
<ul style="list-style-type: none"> • View live imagery from the camera • Record snapshots or movies to disk. • Post-processing of fast thermal events. • Generate time-temperature plots from live images or recorded sequences. • Analysis by region (spot, line, area). • File organizer. • Zoom and pan allows a closer look. • Multiple dockable objects for plots and statistics. • Export images and results to bitmap, Excel, or CSV formats
FLIR ResearchIR Standard 4 in combination with a FLIR thermal imaging camera is the perfect solution for any benchtop testing application application.

Download
Download your copy of FLIR ResearchIR 4 here (evaluation copy only – license key required):
http://support.flir.com/rir4

Shipping information	
List of contents	FLIR ResearchIR Standard download card, incl. license key.
Packaging, weight	0.069 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558010440
UPC-12	845188011093
Country of origin	Sweden

Compatible with the following products:

- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72002-0202; FLIR C2 Educational Kit

P/N: T199042

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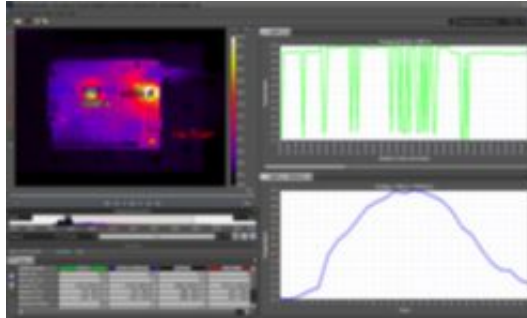
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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

FLIR ResearchIR Standard 4 is aimed at the R&D benchtop testing environment for users of uncooled cameras. FLIR ResearchIR Standard provides the core analysis tools needed for rapid testing and assessment of thermal issues.

Main features:

- View live imagery from the camera
- Record snapshots or movies to disk.
- Post-processing of fast thermal events.
- Generate time-temperature plots from live images or recorded sequences.
- Analysis by region (spot, line, area).
- File organizer.
- Zoom and pan allows a closer look.
- Multiple dockable objects for plots and statistics.
- Export images and results to bitmap, Excel, or CSV formats

FLIR ResearchIR Standard 4 in combination with a FLIR thermal imaging camera is the perfect solution for any benchtop testing application application.

Download

Download your copy of FLIR ResearchIR 4 here (evaluation copy only – license key required):

<http://support.flir.com/rir4>

Shipping information

List of contents	FLIR ResearchIR Standard download card, incl. license key.
Packaging, weight	0.069 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558010471
UPC-12	845188011123
Country of origin	Sweden

Compatible with the following products:

- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)



FLIR ResearchIR Standard 4 Upgrade (printed license key)

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Website

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Customer support

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- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

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Website

<http://www.flir.com>

Customer support

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General description
<p>Software to manage and control FLIR Systems thermal imaging cameras for security and safety applications</p> <p>FLIR Sensors Manager offers powerful and efficient management capabilities for any security installation with FLIR Systems thermal imaging cameras. FLIR Sensors Manager allows to automatically locate FLIR Systems thermal imaging cameras in the network and to easily control them. Just connect the thermal imaging camera to the network, install FLIR Sensors Manager and hit the "discover" button and you will be able to manage and control the camera. Thanks to FLIR Sensors Manager, the management of FLIR Systems thermal imaging cameras over a network will become extremely easy.</p> <p>FLIR Sensors Manager does not only allow controlling F-, PT- and D-Series thermal imaging cameras. It is also suited for managing thermal imaging cameras with temperature capabilities like the FLIR A310 f and FLIR A310 pt.</p> <p>FLIR Sensors Manager allows you to get the most out of your thermal imaging camera with temperature measurement capability. It is ideal for monitoring critical infrastructure and for preventing fires.</p> <p>FLIR Sensors Manager allows to automatically locate FLIR A310 pt and FLIR A310 f cameras in the network. They can be easily controlled and set-up in a distributed multi-camera environment</p>
<p>FLIR Sensors Manager is available in two different versions: Basic (freeware) and Pro. Depending on your exact needs and your security network, you can choose the version that best fits your system's requirements. A free demo version is available and can be downloaded from our website. After registration, the demo version is converted to the basic version.</p>
<p>The Basic version of FLIR Sensors Manager (freeware) allows to:</p> <ul style="list-style-type: none"> • Discover sensors in the network • Command and control of up to four networked sensors: focus, pan/tilt, zoom • Display network video • Define presets • Manage scan lists • Create panoramas • Configure user profiles(toolbars, layout, etc) • Show thermal images on multiple monitors • Capture images • Geo Mapping
<p>The Pro version of FLIR Sensors Manager contains all the features that are incorporated in the Basic version, plus a number of useful modes that will help you make the most out of your security network.</p>



FLIR Sensors Manager, pro

P/N: 4130235

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

General description

Video analytics

Allows to perform video analytics within FLIR Sensors Manager. It includes:

- Video Motion Detection: FLIR's pro proprietary algorithm will work on thermal or visible video in the most harsh environments.
- Target detection with alarms based on spatial rules like trip wires crossing or areas triggered by enter, exit or both events.
- Software based video-tracking of moving objects for control of PTZ sensors.

Radar Cueing and radar tracks display

Allows display of real-time position and classification information of radar targets (ID, course, speed, lat/lon, classification, ...) coming from Nexus enabled radars. Allows users to command cameras in advanced radar slave modes (ARPA tracking).

Video wall display

Allows fully configurable video mosaic layouts, supporting both network and analog frame grabber sources. E-stab Provides a steady image. Can be extremely useful when cameras are installed on high poles where they can be affected by wind or vibration.

Download

The demo version is a freeware. To download, click the following link:

<http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=157>

Release notes

Version	FLIR Sensors Manager - FSM

Shipping information

Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009987
UPC-12	845188010522
Country of origin	Sweden

System requirements

Operating system	<ul style="list-style-type: none">• Windows XP, 32-bit• Windows Vista, 32-bit• Windows 7, 32-bit• Windows 7, 64-bit
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Compatible with the following products:

- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°



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- 61201-1105; FLIR A310f 90°

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Website

<http://www.flir.com>

Customer support

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Website

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Customer support

<http://support.flir.com>



General description	
FLIR Tools is a software suite specifically designed to provide an easy way to update your camera and create inspection reports.	
Key features:	
<ul style="list-style-type: none"> • Report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR). • Manual IR/Visual Image Grouping • Import images from your camera to your computer. • Apply filters when searching for images. • Search all text in images and text annotations. • Store the five latest search criteria's. • Lay out, move, and resize measurement tools on any infrared image. • Create PDF imagesheets of any images of your choice. • Add headers, footers, and logos to imagesheets. • Create PDF reports for images of your choice. • Add headers, footers, and logos to reports. • Report editor (report page preview and snap to grid). • Sort function (by date, groups sorted by path, and groups sorted by date). • Browse and purchase infrared cameras, software, and accessories in the webshop. • Software localized to 21 languages. • Support for MSX (Multi-Spectral Dynamic Imaging) Images • Support for Sketch Images on both IR and Visual with toggling ON/OFF feature. • Support for Same FOV (Field of View Match) • Display of Compass Information in Edit and in Report. • Display of GPS Information in Edit and in Report. • Camera update (applies to FLIR Ex, Kxx, Exx and T6xx series only). 	
Download	
This software is a freeware. To download, click the following link:	
http://support.flir.com/tools	
Release notes	
Version	5.9
New features in version 5.9	<ul style="list-style-type: none"> • Additional trigger options for FLIR K53, K55, and K65 cameras • Added user account registration and login • New Pleora version support • Various bug fixes
New features in version 5.7	<ul style="list-style-type: none"> • Five modes supported for K65, K55, and K53 cameras. • Support for Kx3 cameras. • Auto gain mode now available for K2 cameras. • Various bug fixes.
New features in version 5.5	<ul style="list-style-type: none"> • Added support for Microsoft Office 2016 (32-bit) for the FLIR Word Reporting module. • Various bug fixes.

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Release notes	
New features in version 5.3	<ul style="list-style-type: none"> Support for the FLIR T1020 and T1040 cameras for import, edit, report creation, and camera update. Support for the FLIR K2 camera for configuration, video streaming, and camera update. Delta (difference) readings are now on one line instead of two.
New features in version 5.2.1	<ul style="list-style-type: none"> Option added to change color distribution mode (histogram equalization, signal linear, temperature linear). Option added to extract photos at their full field of view. Various bug fixes.
New features in version 5.2	<ul style="list-style-type: none"> Support for auto-adjusting a region. Support for zoom. Various bug fixes.
New features in version 5.1	<ul style="list-style-type: none"> Improved import performance. Added support for video recording settings for FLIR Kxx series. Added support for importing video files from FLIR Kxx series. Added support for FLIR C2 camera. Various bug fixes.
New features in version 5.0	<ul style="list-style-type: none"> Local object parameters for measurement tools. Save a report in-process with the ability to edit at a later time. Pull-down menus for text annotations. Variable playback speed for recordings. Show or hide min./max./avg. temperature, and hot/cold markers, for areas and lines. Smoother display for low-resolution images. UltraMax image enhancement. Dropping support for Windows XP. Various bug fixes.
New features in version 4.1	<ul style="list-style-type: none"> Previous/next in Edit mode. Clone in the Library. Extract visual photo from a multispectral image. Import *.mp4, *.seq, and *.csq files from the camera. Playback/edit *.seq and *.csq files. Scale enhancement for the FLIR GF3xx series. Auto resize of thumbnails during importing for the FLIR T6xx series. Grouping/ungrouping now added. Various bug fixes.
New features in version 4.0	<ul style="list-style-type: none"> Support for the new FLIR Ex and Exx series cameras. Interactive quick start guide when connecting a FLIR camera. Improved library view. Support for multispectral images. Support for auto-oriented images. Various bug fixes.
New features in version 3.1	<ul style="list-style-type: none"> Support for FLIR K series cameras. Interactive quick start guide when connecting a FLIR K series camera. Live image streaming from FLIR K series cameras. PC-side configuration of FLIR K series cameras. New report templates for DC images only added. Various bug fixes.
New features in version 3.0	<ul style="list-style-type: none"> Add folder to library. Support for isotherms and color alarms Image description for both IR and DC. Export functionality (*.avi, *.csv). Microsoft Windows 8 (32- and 64-bit) New web installer Various bug fixes.

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Release notes	
New features in version 2.2	<ul style="list-style-type: none"> Camera tab: <ul style="list-style-type: none"> Logging feature in Camera Tab Recording and playback of SEQ files. Various bug fixes.
New features in version 2.1	<ul style="list-style-type: none"> New Text Comment Template Tab: <ul style="list-style-type: none"> Create, Edit and Transfer templates to and from any FLIR Camera. Import and Export of Templates. Support for MSX (Multi-Spectral Dynamic Imaging) Images Support for Sketch Images on both IR and Visual with toggling ON/OFF feature. Support for Same FOV (Field of View Match) Display of Compass Information in Edit and in Report. Display of GPS Information in Edit and in Report. <ul style="list-style-type: none"> Direct Link to Google Maps for GPS Tagged images from Report. Support for 3x5 and 6x5 A-series cameras
New features in version 2.0	<ul style="list-style-type: none"> Camera tab: <ul style="list-style-type: none"> Camera connection with FLIR UVC cameras. Measurement data analysis. Plotting. Snapshot saving with text annotation and plot. Performance improvement for large reports: can now create reports and imagesheets of up to 200 pages. Various bug fixes.
New features in version 1.3	<ul style="list-style-type: none"> Import from ix series cameras. Add and remove a form from a group. Text comments are now saved in the infrared image. The indexing engine can create groups from IR, DC, and text annotations when indexing the paths in the watch folder. Arrow tool in the report toolbar. Reorder pages. Text annotations can now be edited in the report. New report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR). New sample images.
New features in version 1.2 SP1	<ul style="list-style-type: none"> Various bug fixes.
New features in version 1.2	<ul style="list-style-type: none"> Search function: <ul style="list-style-type: none"> Store the five latest search criterias. Search in all texts in images and text annotations. Sort function: <ul style="list-style-type: none"> By date. Groups sorted by by path. Groups sorted by date. Report editor: <ul style="list-style-type: none"> Report page preview. Snap to grid. Various bug fixes.
New features in version 1.1 SP1	<ul style="list-style-type: none"> Extension to the camera update functionality. Various bug fixes
New features in version 1.1	<ul style="list-style-type: none"> Software localized to 21 languages. Camera update. (Exx, T6xx) Option to rotate an infrared image in the infrared editor.

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> Digital download, or CD-ROM
Packaging, weight	0.106 kg (0.23 lb.)



FLIR Tools

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Shipping information	
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005279
UPC-12	845188005481
Country of origin	Sweden

System requirements	
Operating system	<ul style="list-style-type: none">• Windows 7, 32-bit• Windows 7, 64-bit• Windows 8, 32-bit• Windows 8, 64-bit• Windows 10, 32-bit• Windows 10, 64-bit

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 73309-0102; FLIR A35 f=9 mm with SC kit
- 83225-0101; FLIR A35 FOV 13 (60 Hz, ver. 2017)
- 83213-0102; FLIR A35 FOV 25 (60 Hz, ver. 2017)
- 83207-0102; FLIR A35 FOV 45 (60 Hz, ver. 2017)
- 83250-0101; FLIR A35 FOV 6.5 (60 Hz, ver. 2017)
- 83209-0102; FLIR A35 FOV 69 (30 Hz, ver. 2017)
- 73413-0102; FLIR A65 f=13 mm with SC kit (30 Hz)
- 73513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 75050-0101; FLIR A65 FOV 12.4 (30 Hz, ver. 2016)
- 75025-0101; FLIR A65 FOV 25 (30 Hz, ver. 2016)
- 75013-0101; FLIR A65 FOV 45 (30 Hz, ver. 2016)
- 75010-0101; FLIR A65 FOV 6.2 (30 Hz, ver. 2016)
- 75007-0101; FLIR A65 FOV 90 (30 Hz, ver. 2016)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72001-0101; FLIR C2
- 72002-0202; FLIR C2 Educational Kit
- 72003-0303; FLIR C3 (incl. Wi-Fi)
- 72003-0404; FLIR C3 (incl. Wi-Fi) Educational Kit

P/N: APP-10002

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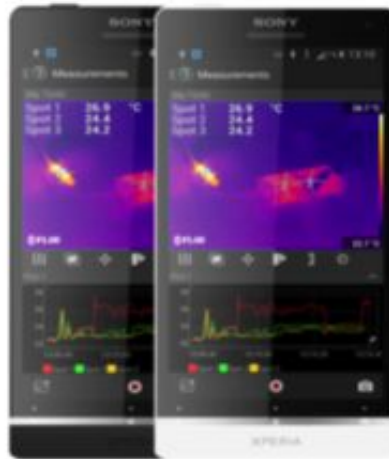
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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
FLIR Tools Mobile is an intuitive Android app for analyzing, managing, and distributing infrared images.	
Key features:	
<ul style="list-style-type: none"> • Remote control • MSX • Images with sketch on DC and IR • Images with field of view follow • Editable text comments • Emissivity table • Import images from your Wi-Fi-enabled camera. • Connect and stream infrared images from the camera. • Connect and stream measurement data from FLIR Test & Measurement meters • Lay out and move measurement tools on the image. • Read out temperature measurements. • Create and configure temporal plots based on results of measurement tools on the infrared image. • Log measurement data and export it as a *.csv file. • Save a measurement scenario as a data snapshot. • Zoom in on images. • On the Android device, remotely take snapshots when a camera is connected. • On the camera, take snapshots that will automatically be saved on the Android device. • Delete images on the Android device. • Display an image's GPS coordinates on Google Maps. • Create and e-mail reports. • Save images in the Android device photo library. • Send images to FTP sites and other file-sharing services (Dropbox, Box.net, etc.). • Display image information, e.g., object parameters, text comments, and file details. • Play back voice comments. • Change the level and span. • Change general settings in the app. • Change the palette. 	
Download	
The application can be downloaded from Android Market or Amazon Marketplace, see the link below.	
https://market.android.com/details?id=com.flir.viewer	
Release notes	
Version	3.8.0
New features	Main improvements in version 3.8.0: <ul style="list-style-type: none"> • Fixed loading of Japanese help files. • Fixed import bug for Samsung S6. • Fixed opening image taken from CAT S60. • Support for Ex, C3, and the new Exx cameras. • Import from Work folders. • Area measurement and length measurement feature based on object distance. • Various bug fixes.



FLIR Tools Mobile (Android Application)

P/N: APP-10002

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

System requirements

Operating system

- Android 4.03 and later

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

P/N: APP-10003

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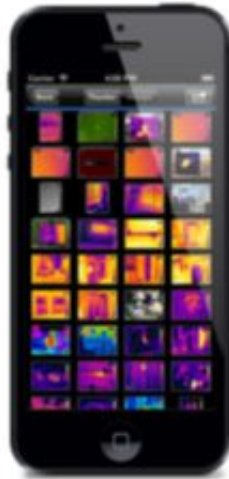
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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



<p>General description</p> <p>FLIR Tools Mobile lets professional thermographers use an iPad, iPhone, or iPod touch to see and capture live, streaming infrared video and stills from select FLIR cameras.</p> <p>With FLIR Tools Mobile the camera can be stationed in one area and operated wirelessly from another – highly useful for IR inspections of energized equipment or performing IR surveys in hard-to-reach locations and harsh working environments. Streaming video and remote access also gives decision makers and others on your team a valuable opportunity to observe and collaborate in the thermal imaging process.</p>
<p>Using FLIR Tools Mobile, you can do one or more of the following:</p> <ul style="list-style-type: none"> • Import images from your infrared camera • Lay out and move measurement tools on the image • Read out temperature measurements • Zoom in on images • On the iPhone/iPad, remotely take snapshots when a camera is connected • On the camera, take snapshots that will automatically be saved in the iPhone/iPad • Delete any images on the iPhone/iPad • Display an image's GPS coordinates on Google Maps • Create and e-mail imagesheets • Create and e-mail reports • Print imagesheets and reports to any AirPrint-enabled printer • Save images to iPhone/iPad photo library • Send images to FTP sites and other file sharing services (Dropbox, Box.net, etc.) • Display image information, such as object parameters, text comments, file information, etc. • Play-back voice comments • Change level and span • Change general settings in the app • Change palette
<p>FLIR Tools Mobile lets you take control of the following features on selected cameras:</p> <ul style="list-style-type: none"> • Remote control of your FLIR camera. • Support for MSX (Multi-Spectral Dynamic Imaging) images. • Support for sketch images in both IR and visual with on/off toggling. • Support for same FOV ("Field of View Match"). • Editable text comments. • Auto and manual focus • Level and span • Color palettes • Temperature measurement analytics • Spot • Area box • Circle • Line • Parameter settings • Emissivity • Reflected temperature • Relative humidity • Atmospheric temperature • IR and visible light image blending • Picture-in-picture • Thermal fusion • Image storage • MPEG 4 video • Radiometric JPEG stills



FLIR Tools Mobile (iPad/iPhone Application)

P/N: APP-10003

Revision

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Download
The application can be downloaded from App Store, see the link below.
http://itunes.apple.com/app/flir-tools/id511247887?mt=8

Release notes	
Version	1.8.2
New features	Main improvements in version 1.8.2: Various bug fixes.

System requirements	
Operating system	• iOS 8.0 or later
Hardware requirements	• iPhone • iPad • iPod

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°

P/N: T198583

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42932

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

Compared to FLIR Tools, FLIR Tools+ has the following features:

- Radiometric Panorama incl. MSX
- Radiometric IR Video Recording
- Advanced Reporting

FLIR Tools/Tools+ is a software suite specifically designed to provide an easy way to update your camera and create inspection reports.

FLIR Tools+ main features:

- Manual IR/Visual Image Grouping
- Radiometric Panorama incl. MSX
- Radiometric IR Video Recording
- Advanced Reporting for Microsoft Office.
- Report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR).
- Import images from your camera to your computer.
- Apply filters when searching for images.
- Search all text in images and text annotations.
- Store the five latest search criteria's.
- Lay out, move, and resize measurement tools on any infrared image.
- Create PDF imagesheets of any images of your choice.
- Add headers, footers, and logos to imagesheets.
- Create PDF reports for images of your choice.
- Add headers, footers, and logos to reports.
- Report editor (report page preview and snap to grid).
- Sort function (by date, groups sorted by path, and groups sorted by date).
- Browse and purchase infrared cameras, software, and accessories in the webshop.
- Software localized to 21 languages.
- Support for MSX (Multi-Spectral Dynamic Imaging) Images
- Support for Sketch Images on both IR and Visual with toggling ON/OFF feature.
- Support for Same FOV (Field of View Match)
- Display of Compass Information in Edit and in Report.
- Display of GPS Information in Edit and in Report.
- Camera update (applies to FLIR Ex, Kxx, Exx and T6xx series only).

Download

Download a 30-day evaluation version here:

<http://support.flir.com/toolsplus>

Release notes

Version	5.9
New features in version 5.9	<ul style="list-style-type: none"> • Additional trigger options for FLIR K53, K55, and K65 cameras • Added user account registration and login • New Pleora version support • Various bug fixes
New features in version 5.7	<ul style="list-style-type: none"> • Five modes supported for K65, K55, and K53 cameras. • Support for Kx3 cameras. • Auto gain mode now available for K2 cameras. • Various bug fixes.



FLIR Tools+ (download card incl. license key)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Release notes	
New features in version 5.5	<ul style="list-style-type: none"> Added support for Microsoft Office 2016 (32-bit) for the FLIR Word Reporting module. Various bug fixes.
New features in version 5.3	<ul style="list-style-type: none"> Support for the FLIR T1020 and T1040 cameras for import, edit, report creation, and camera update. Support for the FLIR K2 camera for configuration, video streaming, and camera update. Delta (difference) readings are now on one line instead of two.
New features in version 5.2.1	<ul style="list-style-type: none"> Option added to change color distribution mode (histogram equalization, signal linear, temperature linear). "Rapid Report" shortcuts added to simplify reporting using a drag-and-drop operation. Option added to extract photos at their full field of view. Two new templates for express export added (Photo_Large and Thermalx1 Photox2). Various bug fixes.
New features in version 5.2	<ul style="list-style-type: none"> Support for auto-adjusting a region. Support for zoom. Express Microsoft Word reporting (*.docx). Various bug fixes.
New features in version 5.1	<ul style="list-style-type: none"> Improved import performance. Added support for video recording settings for FLIR Kxx series. Added support for importing video files from FLIR Kxx series. Added support for FLIR C2 camera. Various bug fixes.
New features in version 5.0	<ul style="list-style-type: none"> Local object parameters for measurement tools. Save a report in-process with the ability to edit at a later time. Pull-down menus for text annotations. Variable playback speed for recordings. Show or hide min./max./avg. temperature, and hot/cold markers, for areas and lines. Smoother display for low-resolution images. UltraMax image enhancement. Dropping support for Windows XP. Various bug fixes.
New features in version 4.1	<ul style="list-style-type: none"> Previous/next in Edit mode. Clone in the Library. Extract visual photo from a multispectral image. Import *.mp4, *.seq, and *.csq files from the camera. Playback/edit *.seq and *.csq files. Scale enhancement for the FLIR GF3xx series. Auto resize of thumbnails during importing for the FLIR T6xx series. Grouping/ungrouping now added. Various bug fixes.
New features in version 4.0	<ul style="list-style-type: none"> Support for the new FLIR Ex and Exx series cameras. Interactive quick start guide when connecting a FLIR camera. Improved library view. Support for multispectral images. Support for auto-oriented images. Various bug fixes.
New features in version 3.1	<ul style="list-style-type: none"> Support for FLIR K series cameras. Interactive quick start guide when connecting a FLIR K series camera. Live image streaming from FLIR K series cameras. PC-side configuration of FLIR K series cameras. New report templates for DC images only added. Various bug fixes.



FLIR Tools+ (download card incl. license key)

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>**Release notes**

New features in version 3.0

- Add folder to library.
- Support for isotherms and color alarms
- Image description for both IR and DC.
- Export functionality (*.avi, *.csv).
- Microsoft Windows 8 (32- and 64-bit)
- New web installer
- Radiometric panorama with MSX images.
- Advanced reports.
- Manual grouping/ungrouping of images.
- Various bug fixes.

New features in version 2.2

- Camera tab:
 - Logging feature in Camera Tab
 - Recording and playback of SEQ files.
- Various bug fixes.

Shipping information

Packaging, type

Cardboard box

List of contents

- FLIR Tools+ (download card incl. license key)

Packaging, weight

0.059 kg (0.13 lb.)

Packaging, size

202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)

EAN-13

73325585378
4743254001442 (Estonia plant)

UPC-12

845188005580

Country of origin

Sweden

System requirements

Operating system

- Windows 7, 32-bit
- Windows 7, 64-bit
- Windows 8, 32-bit
- Windows 8, 64-bit
- Windows 10, 32-bit
- Windows 10, 64-bit

Software requirements

- Office 2007 (32-bit)
- Office 2010 (32-bit)
- Office 2013 (32-bit)
- Office 2016 (32-bit)

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)

P/N: T198583

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 73309-0102; FLIR A35 f=9 mm with SC kit
- 83225-0101; FLIR A35 FOV 13 (60 Hz, ver. 2017)
- 83213-0102; FLIR A35 FOV 25 (60 Hz, ver. 2017)
- 83207-0102; FLIR A35 FOV 45 (60 Hz, ver. 2017)
- 83250-0101; FLIR A35 FOV 6.5 (60 Hz, ver. 2017)
- 83209-0102; FLIR A35 FOV 69 (30 Hz, ver. 2017)
- 73413-0102; FLIR A65 f=13 mm with SC kit (30 Hz)
- 73513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 75050-0101; FLIR A65 FOV 12.4 (30 Hz, ver. 2016)
- 75025-0101; FLIR A65 FOV 25 (30 Hz, ver. 2016)
- 75013-0101; FLIR A65 FOV 45 (30 Hz, ver. 2016)
- 75010-0101; FLIR A65 FOV 6.2 (30 Hz, ver. 2016)
- 75007-0101; FLIR A65 FOV 90 (30 Hz, ver. 2016)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 84502-0201; FLIR E53 24°
- 78501-0101; FLIR E75 14°
- 78502-0101; FLIR E75 24°
- 78504-0101; FLIR E75 24° + 14°
- 78506-0101; FLIR E75 24° + 14° & 42°
- 78505-0101; FLIR E75 24° + 42°
- 78503-0101; FLIR E75 42°
- 78507-0101; FLIR E75 42° + 14°
- 78501-0201; FLIR E85 14°
- 78502-0201; FLIR E85 24°
- 78504-0201; FLIR E85 24° + 14°
- 78506-0201; FLIR E85 24° + 14° & 42°
- 78505-0201; FLIR E85 24° + 42°
- 78503-0201; FLIR E85 42°
- 78507-0201; FLIR E85 42° + 14°
- 78501-0301; FLIR E95 14°
- 78502-0301; FLIR E95 24°
- 78504-0301; FLIR E95 24° + 14°
- 78506-0301; FLIR E95 24° + 14° & 42°
- 78505-0301; FLIR E95 24° + 42°
- 78503-0301; FLIR E95 42°
- 78507-0301; FLIR E95 42° + 14°
- 63901-0101; FLIR E4
- 63906-0604; FLIR E4 (incl. Wi-Fi)
- 63905-0501; FLIR E5
- 63909-0904; FLIR E5 (incl. Wi-Fi)
- 63902-0202; FLIR E6
- 63907-0704; FLIR E6 (incl. Wi-Fi)
- 63903-0303; FLIR E8
- 63908-0805; FLIR E8 (incl. Wi-Fi)
- 79301-0101; FLIR T530 14°
- 79302-0101; FLIR T530 24°
- 79304-0101; FLIR T530 24° + 14°
- 79306-0101; FLIR T530 24° + 14° & 42°
- 79305-0101; FLIR T530 24° + 42°
- 79303-0101; FLIR T530 42°
- 79307-0101; FLIR T530 42° + 14°
- 79301-0201; FLIR T540 14°
- 79302-0201; FLIR T540 24°
- 79304-0201; FLIR T540 24° + 14°



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 79306-0201; FLIR T540 24° + 14° & 42°
- 79305-0201; FLIR T540 24° + 42°
- 79303-0201; FLIR T540 42°
- 79307-0201; FLIR T540 42° + 14°
- 72001-0101; FLIR C2
- 72002-0202; FLIR C2 Educational Kit
- 72003-0303; FLIR C3 (incl. Wi-Fi)
- 72003-0404; FLIR C3 (incl. Wi-Fi) Educational Kit

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Website

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Customer support

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General description	
<p>FLIR VideoReport makes reports including videos easy. You can create and edit your video clips taken with the FLIR GF series cameras. Build your movie with a few simple drag-and-drops. Delete bad shots and include only the best scenes.</p> <p>FLIR VideoReport is a software package specifically designed to provide an easy way to edit non-radiometric *.mp4 and *.avi video clips, taken with FLIR GF series cameras.</p>	
Key features:	
<ul style="list-style-type: none"> • Create a longer video clip from several shorter ones, using a storyboard. • Rearrange the order of shorter video clips on a storyboard before you create a longer video clip. • Trim a video clip and make the portions that you don't want to display invisible. • Save any frame from a video clip as an image. • Add a title screen with custom text. • Add explanatory text to any video clip. • Play video clips at several different speeds. • Read out measurement values, stored as metadata from, an *.mp4 video clip. • Add digital photos to a video clip. • Add IR images to a video clip. • Add GPS information from the camera to a video clip. • Review file properties and information about the camera type, lens, and serial number. • Split a video clip into two parts. • Add markers (circle or arrow) as overlay graphics to any video clip. • Auto Update function 	
Download	
This software is a freeware. To download, click the following link:	
http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=90	
Release notes	
Version	1.1 SP4
New features	<ul style="list-style-type: none"> • --- News in SP4: --- • New codec implemented. • Various bug fixes. • --- News in SP3: --- • New user interface design • New logo functionality • Various bug fixes
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Digital download, or • CD-ROM
Packaging, weight	0.106 kg (0.23 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)



FLIR VideoReport

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Shipping information	
EAN-13	7332558005385
UPC-12	845188005597
Country of origin	Sweden

System requirements	
Operating system	<ul style="list-style-type: none">• Microsoft Windows XP with Service Pack 3 (SP3), 32-bit• Microsoft Windows Vista with Service Pack 1 (SP1), 32-bit and 64-bit• Microsoft Windows Vista with Service Pack 2 (SP2), 32-bit and 64-bit• Microsoft Windows 7, 32-bit and 64-bit
Software note	Run Windows® Update before you install FLIR VideoReport
Hardware requirements	<ul style="list-style-type: none">• Personal computer with a 1 GHz 32-bit (x86) processor• 1 GB of RAM (minimum)• 40 GB hard disk, with at least 15 GB available hard disk space• DVD-ROM drive• Support for DirectX® 9 graphics with:<ul style="list-style-type: none">• - WDDM driver• - 128 MB of graphics memory (minimum)• - Pixel shader 2.0 in hardware• - 32 bits per pixel• Super VGA (1024 × 768) or higher-resolution monitor• Internet access• Audio output• Keyboard and Microsoft® mouse, or a compatible pointing device
Hardware note	Actual requirements and product functionality may vary based on your system configuration.

Compatible with the following products:

- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

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Website

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Customer support

<http://support.flir.com>



General description	
<p>The ThermoVision LabVIEW Toolkit is a set of VIs (virtual instruments) for cameras that support alarms, measurement functions, and I/O functionality.</p> <p>Through LabVIEW, you can use these VIs as sub-VIs to manage communications with a FLIR IR camera in digital mode.</p> <p>You can also generate true temperature images from images acquired through LabVIEW, and can use the LabVIEW IR Measurement and Display tools to analyze the temperatures of imaged objects.</p>	
<p>Key features:</p> <ul style="list-style-type: none"> • Set up communications between LabVIEW VI and a FLIR IR camera • Capture and collect images via FireWire or Ethernet interfaces • Adjust the camera configuration parameters and focus as you view a live image • Control the camera calibration • Send any other camera command to the camera • Generate a true temperature image from a 16-bit image acquired using the camera's FireWire or Ethernet interfaces • Close communications to the IR camera 	
<p>Users with licenses for the previous version can download a free upgrade via the following link: http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=63</p>	
<p>Note: Only supports National Instrument 32-bit Labview</p>	

Release notes	
Version	3.3
New features	<ul style="list-style-type: none"> • Windows 7 32- and 64-bit support • Support for FLIR A615 and FLIR SC6X5 (including windowing) • Support for windowing in FLIR SC660 • Various bug fixes • New example VIs

Shipping information	
Packaging, type	Cardboard box
Packaging, weight	0.133 kg (0.3 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005187
UPC-12	845188005399
Country of origin	Sweden

Compatible with the following products:

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
ThermoVision™ System Developers Kit	
Key features:	
<ul style="list-style-type: none"> • Supports communication and broadcasting via FireWire™, Ethernet, and USB interfaces. • Gives the user full control of the camera. • Allows the user to set alarm conditions and measurement functions in the camera • Allows the user to define I/O functionality (FLIR A series). • Based on ActiveX technology. • Supports acquisition of images through FireWire™, Ethernet, and USB interfaces. • Reads from and writes to file in FLIR Systems' proprietary file format and writes to files in FLIR Systems' open floating point format (*.fpf). • Converts 16-bit absolute pixels into temperature pixels and several intermediate types of pixels formats, for maximum user flexibility. Applies to all camera models with temperature measurement capabilities. • Allows 16-bit temperature linear outputs from FLIR A series cameras. • Includes method that allows using individual emissivity value correction on any single pixel or condensed measuring value – e.g. average, minimum etc. • Supports conditional recording to file through FireWire™, Ethernet, and USB interfaces. 	
Users with licenses for the previous version can download a free upgrade via the following link: http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=62	

Release notes	
Version	ThermoVision 2.6 SP2
New features	<ul style="list-style-type: none"> • --- News in SP2: • Support for FLIR GF3XX series • Support for windowing in FLIR A615 and FLIR SC6x5 • Support for windowing in FLIR SC6x0 • Various bug fixes

Shipping information	
Packaging, type	Cardboard box
Packaging, weight	0.132 kg (0.3 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005293
UPC-12	845188005504
Country of origin	Sweden

Compatible with the following products:

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

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Accessories for FLIR A3xx series

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P/N: 1196961

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General description

The 15° lens is a popular lens accessory and provides 1.7x magnification compared to the standard lens. Ideal for small or distant targets such as overhead power lines.

Imaging and optical data

Field of view (FOV)	15° × 11.25°
Minimum focus distance	1.2 m (3.93 ft.)
Focal length	30.38 mm (1.2 in.)
Spatial resolution (IFOV)	Depends on the IR resolution of the camera: 1.65 mrad for 160 × 120 pixels 1.32 mrad for 200 × 150 pixels 1.10 mrad for 240 × 180 pixels 0.82 mrad for 320 × 240 pixels
F-number	1.3

Physical data

Weight	0.092 kg (0.203 lb.), incl. two lens caps
Size (L × D)	24 × 58 mm (1.0 × 2.3 in.)

Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Lens • Lens case
Packaging, weight	0.32 kg (0.71 lb.)
Packaging, size	172 × 131 × 133 mm (6.8 × 5.2 × 5.2 in.)
EAN-13	7332558001134 4743254000889 (Estonia plant)
UPC-12	845188000127
Country of origin	Sweden

Compatible with the following products:

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)



IR lens, f = 30 mm, 15° incl. case

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Website

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Customer support

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- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

P/N: 1196960

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Website

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Customer support

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General description

This wide angle lens has a field of view almost double that of the standard lens. Perfect for wide or tall targets or when working in crowded spaces.

Imaging and optical data

Field of view (FOV)	45° × 33.8°
Minimum focus distance	0.20 m (0.66 ft.)
Focal length	9.66 mm (0.38 in.)
Spatial resolution (IFOV)	Depends on the IR resolution of the camera: 5.18 mrad for 160 × 120 pixels 4.14 mrad for 200 × 150 pixels 3.45 mrad for 240 × 180 pixels 2.59 mrad for 320 × 240 pixels
F-number	1.3

Physical data

Weight	0.105 kg (0.231 lb.), incl. two lens caps
Size (L × D)	38 × 47 mm (1.5 × 1.9 in.)

Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Lens • Lens case
Packaging, weight	0.33 kg (0.73 lb.)
Packaging, size	172 × 131 × 133 mm (6.8 × 5.2 × 5.2 in.)
EAN-13	7332558001141 4743254000834 (Estonia plant)
UPC-12	845188000134
Country of origin	Sweden

Compatible with the following products:

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)



IR lens, f = 10 mm, 45° incl. case

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Website

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Customer support

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- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

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Website

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Customer support

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General description

For R&D usage or development purposes. As an example looking at PCB's or small electronic components.

Imaging and optical data

Field of view (FOV)	32 × 24 mm
Magnifying factor	4x
Working distance	79 mm
Depth of field	±2.0 mm
Focal length	73 mm (2.9 in.)
Spatial resolution (IFOV)	Depends on the IR resolution of the camera: 200 µm for 160 × 120 pixels 160 µm for 200 × 150 pixels 133 µm for 240 × 180 pixels 100 µm for 320 × 240 pixels
F-number	1.3
Number of lenses	2 (2 asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	3%

Physical data

Weight	0.11 kg (0.24 lb.)
Size (L × D)	35.2 × 55 mm

Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Lens • Lens case
Packaging, weight	0.340 kg (0.75 lb.)
Packaging, size	172 × 131 × 133 mm (6.8 × 5.2 × 5.2 in.)
EAN-13	7332558005088
UPC-12	845188005115
Country of origin	Sweden

Compatible with the following products:

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315



Close-up 4x (100 µm) incl. case

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Website

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Customer support

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- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc

P/N: T197214

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General description

For R&D usage or development purposes. As an example looking at PCB's or small electronic components.

Imaging and optical data

Field of view (FOV)	16 × 12 mm
Magnifying factor	2x
Working distance	33 mm
Depth of field	±0.4 mm
Focal length	37 mm (1.5 in.)
Spatial resolution (IFOV)	Depends on the IR resolution of the camera: 100 µm for 160 × 120 pixels 80 µm for 200 × 150 pixels 67 µm for 240 × 180 pixels 50 µm for 320 × 240 pixels
F-number	1.3
Number of lenses	2 (2 asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	3%

Physical data

Weight	0.11 kg (0.24 lb.)
Size (L × D)	35.2 × 55 mm

Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Lens • Lens case
Packaging, weight	0.346 kg (0.8 lb.)
Packaging, size	172 × 131 × 133 mm (6.8 × 5.2 × 5.2 in.)
EAN-13	7332558005095
UPC-12	845188005122
Country of origin	Sweden

Compatible with the following products:

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315



Close-up 2x (50 µm) incl. case

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Website

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Customer support

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- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc

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Customer support

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General description

A narrow FOV is used in applications where the object that is going to be monitored is remote from the camera or when the camera needs to be far away from the object due to for an example high temperatures.

Imaging and optical data

Field of view (FOV)	6° × 4.5°
Minimum focus distance	4 m (13.11 ft.)
Focal length	76 mm (3.0 in.)
Spatial resolution (IFOV)	0.33 mrad
F-number	1.3
Number of lenses	3 (3 asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	3%

Physical data

Weight	Lens: 0.328 kg (0.723 lb.) Support: 0.15 kg (0.331 lb.)
Size (L × D)	106 × 89 mm (4.17 × 3.48 in.), excluding support

Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Lens • Lens case • Mounting support
Packaging, weight	1.266 kg (2.8 lb.)
Packaging, size	385 × 308 × 162 mm (15.2 × 12.1 × 6.4 in.)
EAN-13	7332558005804
UPC-12	845188006013
Country of origin	Sweden

Compatible with the following products:

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc

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General description

A wide angle lens is used when working in confined areas or when a large object area needs to be covered. This lens is also designed for to look in to electrical cabinets down to 1/2" windows.

Imaging and optical data

Field of view (FOV)	90° × 73°
Minimum focus distance	40 mm (1.57 in.)
Focal length	4 mm (0.157 in.)
Spatial resolution (IFOV)	6.3 mrad
F-number	1.3
Number of lenses	3 (3asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	5%

Physical data

Weight	Lens: 0.262 kg (0.578 lb.) Support: 0.048 kg (0.106 lb.)
Size (L × D)	90 × 60 mm (3.54 × 2.36 in.), excluding support

Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Lens • Lens case • Mounting support
Packaging, weight	1.052 kg (2.3 lb.)
Packaging, size	385 × 308 × 165 mm (15.2 × 12.1 × 6.5 in.)
EAN-13	7332558005538
UPC-12	845188005740
Country of origin	Sweden

Compatible with the following products:

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc

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Customer support

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General description

For R&D usage or development purposes. As an example looking at PCB's or small electronic components.

Imaging and optical data

Field of view (FOV)	8 × 6 mm
Magnifying factor	1×
Working distance	20 mm
Depth of field	±0.15 mm
Focal length	18.2 mm (0.72 in.)
Spatial resolution (IFOV)	25 μm
F-number	1.3
Number of lenses	3 (3 asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	3%
Lens note	The lens and mounting support does not mechanically fit the FLIR T/Bxxx series.

Physical data

Weight	0.38 kg (0.83 lb.)
Size (L × D)	167 × 60 mm

Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Lens • Lens case • Mounting support
Packaging, weight	1.168 kg (2.6 lb.)
Packaging, size	385 × 308 × 165 mm (15.2 × 12.1 × 6.5 in.)
EAN-13	7332558005958
UPC-12	845188006143
Country of origin	Sweden

Compatible with the following products:

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen



Close-up 1× (25 µm) incl. case and mounting support for A3xx, A3xxsc

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Customer support

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- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc

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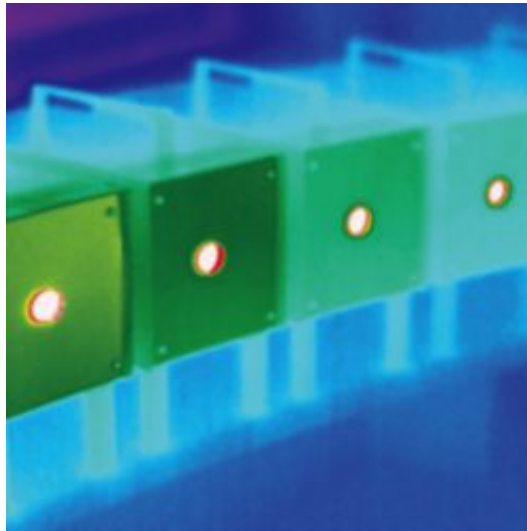
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Website

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Customer support

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General description	
For high temperature applications the camera can be calibrated for high temperature ranges.	
Measurement	
Temperature range	<ul style="list-style-type: none"> • -20 to +120°C (-4 to +248°F) • 0 to +700°C (+32 to +1292°F)

Compatible with the following products:

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 71001-1103; FLIR A310 ex 25°
- 71001-1104; FLIR A310 ex 45°
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°

P/N: T129253

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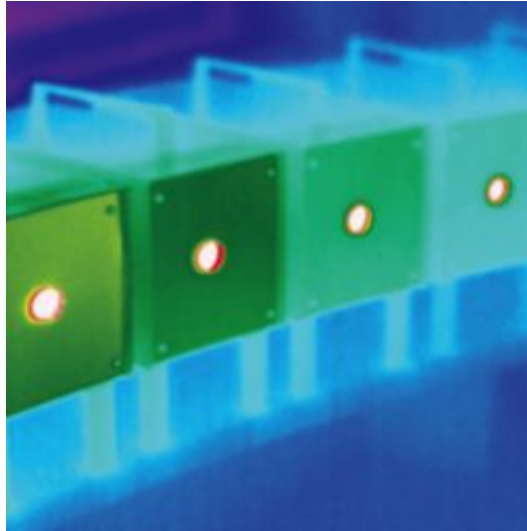
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Website

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General description

For high temperature applications the camera can be calibrated for high temperature ranges.

Measurement

Temperature range

- -20 to +120°C (-4 to +248°F)
- -20 to +500°C (-4 to +932°F)

Compatible with the following products:

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 71001-1103; FLIR A310 ex 25°
- 71001-1104; FLIR A310 ex 45°
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°

P/N: T129254

Revision

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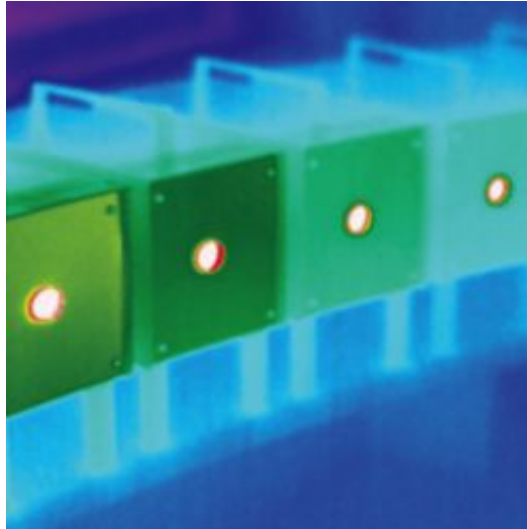
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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

For high temperature applications the camera can be calibrated for high temperature ranges.

Measurement

Temperature range	<ul style="list-style-type: none"> • -20 to +120°C (-4 to +248°F) • 0 to +500°C (+32 to +932°F) • +300 to +2000°C (+572 to +3632°F)
-------------------	--

Compatible with the following products:

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 71001-1103; FLIR A310 ex 25°
- 71001-1104; FLIR A310 ex 45°
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°

P/N: T130151

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Disclaimer

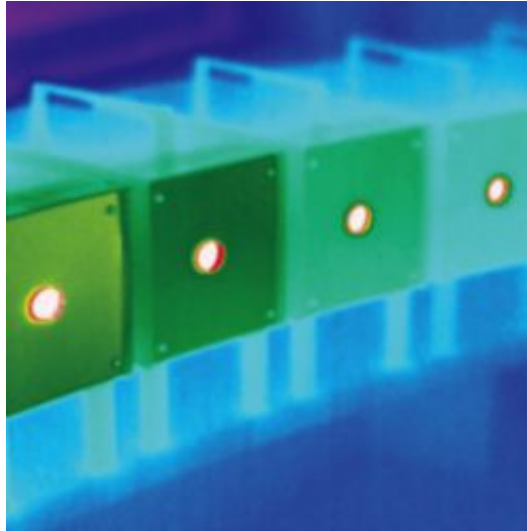
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Website

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Customer support

<http://support.flir.com>



General description

For high temperature applications the camera can be calibrated for high temperature ranges.

Measurement

Temperature range

- -20 to +120°C (-4 to +248°F)
- 0 to +700°C (+32 to +1292°F)
- +300 to +2000°C (+572 to +3632°F)

Compatible with the following products:

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 71001-1103; FLIR A310 ex 25°
- 71001-1104; FLIR A310 ex 45°
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°

P/N: T130152

Revision

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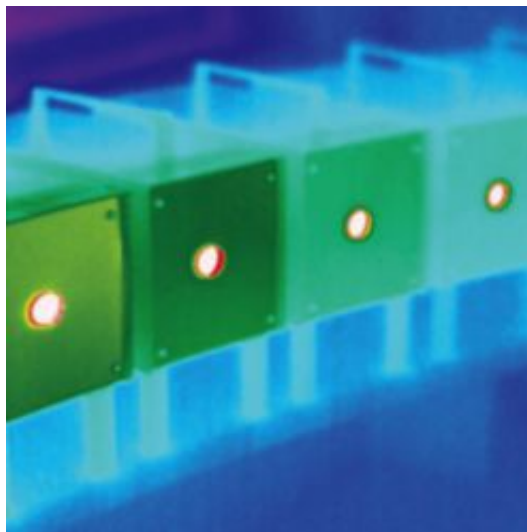
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Website

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Customer support

<http://support.flir.com>



General description	
For high temperature applications the camera can be calibrated for high temperature ranges.	
Measurement	
Temperature range	+200 to +1200°C (+392 to +2192°F)

Compatible with the following products:

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°

P/N: 1910400

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Website

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Customer support

<http://support.flir.com>



General description	
Power cord (EU) for the power supply (1910585) used together with the FLIR A/SC3xx and A/SC6xx series.	
The power supply (1910585) itself is discontinued and replaced by a new power supply (which includes multi plugs and another power cable).	

Power system	
AC operation	250 V 16 A

Physical data	
Cable length	2.0 m (6.6 ft.)
Color	Black

Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009253
UPC-12	845188009786
Country of origin	Sweden

Compatible with the following products:

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

P/N: 1910401

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
Power cord (US) for the power supply (1910585) used together with the FLIR A/SC3xx and A/SC6xx series.	
The power supply (1910585) itself is discontinued and replaced by a new power supply (which includes multi plugs and another power cable).	

Power system	
AC operation	125 V 15 A

Physical data	
Cable length	2.0 m (6.6 ft.)
Color	Black

Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009260
UPC-12	845188009793
Country of origin	Sweden

Compatible with the following products:

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

P/N: 1910402

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Website

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Customer support

<http://support.flir.com>



General description	
Power cord (UK) for the power supply (1910585) used together with the FLIR A/SC3xx and A/SC6xx series.	
The power supply (1910585) itself is discontinued and replaced by a new power supply (which includes multi plugs and another power cable).	

Power system	
AC operation	250 V 13 A

Physical data	
Cable length	2.0 m (6.6 ft.)
Color	Black

Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009277
UPC-12	845188009809
Country of origin	Sweden

Compatible with the following products:

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

P/N: T910922

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
Power supply, incl. multi plugs	
Power system	
AC operation	100–240 VAC, 50/60 Hz, 12 VDC out
Power	2000 mA at 12 VDC
Physical data	
Size (L × W × H)	81 × 47 × 34 mm (3.2 × 1.9 × 1.3 in.)
Cable length	1.5 m (4.9 ft.)
Color	Black
Shipping information	
List of contents	<ul style="list-style-type: none"> • Power supply including cable • EU plug • UK plug • US plug • AU plug
EAN-13	7332558009284
UPC-12	845188009816
Country of origin	Sweden

Compatible with the following products:

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

P/N: T951004ACC

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

This cable is used to connect the infrared camera to Ethernet.

Physical data

Weight	80 g (2.8 oz.)
Cable length	2.0 m (6.6 ft.)
Connector	RJ-45 to RJ-45
Cable type	CAT-6

Shipping information

Packaging, type	Cardboard box
Packaging, weight	130 g (4.6 oz.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558006320
UPC-12	845188006679
Country of origin	Sweden

Compatible with the following products:

- 73309-0102; FLIR A35 f=9 mm with SC kit
- 83225-0101; FLIR A35 FOV 13 (60 Hz, ver. 2017)
- 83213-0102; FLIR A35 FOV 25 (60 Hz, ver. 2017)
- 83207-0102; FLIR A35 FOV 45 (60 Hz, ver. 2017)
- 83250-0101; FLIR A35 FOV 6.5 (60 Hz, ver. 2017)
- 83209-0102; FLIR A35 FOV 69 (30 Hz, ver. 2017)
- 73413-0102; FLIR A65 f=13 mm with SC kit (30 Hz)
- 73513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 75050-0101; FLIR A65 FOV 12.4 (30 Hz, ver. 2016)
- 75025-0101; FLIR A65 FOV 25 (30 Hz, ver. 2016)
- 75013-0101; FLIR A65 FOV 45 (30 Hz, ver. 2016)
- 75010-0101; FLIR A65 FOV 6.2 (30 Hz, ver. 2016)
- 75007-0101; FLIR A65 FOV 90 (30 Hz, ver. 2016)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°



Ethernet cable CAT-6, 2m/6.6 ft.

P/N: T951004ACC

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

P/N: T911307ACC

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>**General description**

This cable is used to connect the infrared camera to Ethernet networks. One connector is a screw connector.

Physical data

Weight	0.068 kg (0.15 lb.)
Cable length	2.0 m (6.6 ft.)
Connector	RJ-45 to RJ-45 screw connector
Cable type	CAT-6

Shipping information

Packaging, type	Cardboard box
Packaging, weight	0.17 kg (0.37 lb.)
Packaging, size	202 × 146 × 25 mm (7.9 × 5.7 × 1.0 in.)
EAN-13	7332558010914
UPC-12	845188011710
Country of origin	Sweden

Compatible with the following products:

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc

P/N: 1910586ACC

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Website

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Customer support

<http://support.flir.com>



General description

This cable is used, when a separate power supply is used (not the one supplied with the camera)

Physical data

Weight	75 g (2.6 oz.)
Cable length	2.0 m (6.6 ft.)
Connector	Pigtailed
Color	Black

Shipping information

Packaging, type	Cardboard box
Packaging, weight	163 g (5.7 oz.)
Packaging, size	170 x 64 x 75 mm (6.69 x 2.52 x 2.95 in.)
EAN-13	7332558006375
UPC-12	845188006723
Country of origin	Sweden

Compatible with the following products:

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

This cable is used to transfer video signals from the infrared camera to an external monitor, or to a computer featuring an internal video card.

Physical data

Weight	163 g (5.7 oz.)
Cable length	3.0 m (9.8 ft.)
Connector	BNC

Shipping information

Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009444
UPC-12	845188010027
Country of origin	Sweden

Compatible with the following products:

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°

P/N: T197871ACC

Revision

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2017-05-30 15:32 UTC+1

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Website

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Customer support

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General description	
Rugged, watertight plastic case for FLIR A3xx, A3xxsc, A6xx and A6xxsc series. Holds all items neatly and securely. The case can be locked with padlocks and features a breather valve to prevent pressure build-up in airplane cargo holds.	

Physical data	
Weight	3.1 kg (6.8 lb.)
Size (L x W x H)	463 x 346 x 172 mm (18.2 x 13.6 x 6.8 in.)
Color	Black

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> Hard transport case
Packaging, weight	3.45 kg (7.6 lb.)
Packaging, size	495 x 370 x 192 mm (19.5 x 14.6 x 7.6 in.)
EAN-13	7332558008331
UPC-12	845188008680
Country of origin	Sweden

Compatible with the following products:

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

P/N: T197870ACC

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Website

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Customer support

<http://support.flir.com>



General description

Cardboard box with plastic handle for the A3xx, A3xxsc, A6xx and A6xxsc series. Holds all items neatly.

Physical data

Weight	0.86 kg (1.9 lb.)
Size (L × W × H)	455 × 300 × 165 mm (17.9 × 11.8 × 6.5 in.)
Material	Cardboard

Shipping information

Packaging, type	Cardboard box
List of contents	• Transport case
Packaging, weight	1.25 kg (2.76 lb.)
Packaging, size	495 × 370 × 192 mm (19.5 × 14.6 × 7.6 in.)
EAN-13	7332558008324
UPC-12	845188008673
Country of origin	Sweden

Compatible with the following products:

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

P/N: 61301-0002

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Website

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Customer support

<http://support.flir.com>



General description

The main purpose of the environmental housing is to increase the environmental specification of any A3XX camera to IP 66 without affecting any of the features available in the camera itself.

Environmental data

Operating temperature range	-25°C to +50°C (-13°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)

Physical data

Weight	4.0 kg (8.8 lb.)
Size (L x W x H)	460 x 140 x 150 mm (18.1 x 5.5 x 5.9 in.)

Shipping information

List of contents	• Fixed Housing for A3xx 7°/15°
EAN-13	7332558005101
UPC-12	845188005153
Country of origin	Sweden

Compatible with the following products:

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)

P/N: 61301-0001

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Website

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Customer support

<http://support.flir.com>



General description

The main purpose of the environmental housing is to increase the environmental specification of any A3XX camera to IP 66 without affecting any of the features available in the camera itself.

Environmental data

Operating temperature range	-25°C to +50°C (-13°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)

Physical data

Weight	4.0 kg (8.8 lb.)
Size (L x W x H)	460 x 140 x 150 mm (18.1 x 5.5 x 5.9 in.)

Shipping information

List of contents	• Fixed Housing for A3xx 7°/15°
EAN-13	7332558004982
UPC-12	845188004996
Country of origin	Sweden

Compatible with the following products:

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)

P/N: T911263ACC

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42932

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Website

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Customer support

<http://support.flir.com>



General description

Wall mount kit for FLIR A310ex.

Power system

Physical data

Weight	2.57 kg (5.66 lb.)
Size (L × W × H)	Plate: 170 × 140 mm (6.7 × 5.5 in.); length: 390 mm (15.3 in.)

Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> Pole mount adapter for wall mount kit
Packaging, weight	
Packaging, size	
EAN-13	7332558008775
UPC-12	845188009298
Country of origin	Sweden

Compatible with the following products:

- 71001-1103; FLIR A310 ex 25°
- 71001-1104; FLIR A310 ex 45°
- 65502-0101; FLIR G300 pt 14.5° NTSC
- 65501-0101; FLIR G300 pt 14.5° PAL
- 65502-0102; FLIR G300 pt 24° NTSC
- 65501-0102; FLIR G300 pt 24° PAL

P/N: T911288ACC

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Website

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General description

Pole mount adapter for wall mount kit (P/N: T911263ACC)

Power system

Physical data

Weight	3.33 kg (7.33 lb.), including screws
Size (L x W x H)	195 x 180 x 110 mm (7.7 x 7.1 x 4.3 in.) (size at minimum clearance between brackets)

Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> Pole mount adapter for wall mount kit
Packaging, weight	3.6 kg (7.9 lb.)
Packaging, size	303 x 206 x 128 mm (11.9 x 8.1 x 5.0 in.)
EAN-13	7332558010259
UPC-12	845188010843
Country of origin	Sweden

Compatible with the following products:

- 71001-1103; FLIR A310 ex 25°
- 71001-1104; FLIR A310 ex 45°
- 65502-0101; FLIR G300 pt 14.5° NTSC
- 65501-0101; FLIR G300 pt 14.5° PAL
- 65502-0102; FLIR G300 pt 24° NTSC
- 65501-0102; FLIR G300 pt 24° PAL

P/N: T130090

Revision

39007

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Website

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Customer support

<http://support.flir.com>



Part number	MT-29525
Model	MIO-A310-1
Compatible FLIR camera models	A310, A310F, A310ex
General description	The MoviTHERM MIO series intelligent I/O solutions are designed to turn FLIR cameras instantly into a complete remote monitoring system. Easy to set up, easy to configure. The quick and easy way to your thermal imaging solution.
Key features	<ul style="list-style-type: none"> Compatible with FLIR A310 cameras Monitor one camera Configure alarms via the built-in web server Digital outputs (24 V DC) 4-20 mA outputs Ethernet connectivity
Typical applications	<ul style="list-style-type: none"> Critical vessel monitoring Condition monitoring Process monitoring Early fire detection
Maximum cameras supported	1
Ethernet connection	100Base-T
Communication protocol	Modbus TCP/IP
4-20 mA transmitter channels	2 channels, loop powered, isolated
Digital output channels	2
Digital output current	0.5 A per channel, 1.5 A all channels
Digital output voltage	10–30 V DC
Power supply voltage	24 V DC
Maximum power consumption	3 W
Dimensions (L × W × H)	145 mm × 90 mm × 40 mm (5.7 in. × 3.6 in. × 1.6 in.)
Weight	0.23 kg (0.5 lb.)
Enclosure material	ABS

Shipping information	
Packaging type	Cardboard box
List of contents	MoviTHERM MIO-A310-1 unit (DIN rail mountable), manual on USB drive
Packaging weight	0.3 kg (0.66 lb.)
Packaging size (L × W × H)	181 mm × 113 mm × 50 mm (7.13 in. × 4.4 in. × 1.99 in.)
Country of origin	USA

Compatible with the following products:



MIO-A310-1

P/N: T130090

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 71001-1103; FLIR A310 ex 25°
- 71001-1104; FLIR A310 ex 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°

P/N: T130091

Revision

39005

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Part number	MT-29625
Model	MIO-A310-7
Compatible FLIR camera model	A310, A310F, A310ex
General description	The MoviTHERM MIO series intelligent I/O solutions are designed to turn FLIR cameras instantly into a complete remote monitoring system. Easy to set up, easy to configure. The quick and easy way to your thermal imaging solution.
Key features	<ul style="list-style-type: none"> • Compatible with FLIR A310 cameras • Monitor up to seven cameras • Configure alarms via the built-in web server • Digital outputs (24 V DC) • 4-20 mA outputs • Ethernet connectivity
Typical applications	<ul style="list-style-type: none"> • Critical vessel monitoring • Condition monitoring • Process monitoring • Early fire detection
Maximum cameras supported	7
Ethernet connection	100Base-T
Communication protocol	Modbus TCP/IP
4-20 mA transmitter channels	8 channels, loop powered, isolated
Digital output channels	8
Digital output current	0.5 A per channel, 1.5 A all channels
Digital output voltage	10–30 V DC
Power supply voltage	24 V DC
Maximum power consumption	7 W
Dimensions (L × W × H)	223 mm × 99 mm × 31 mm (8.8 in. × 3.9 in. × 1.2 in.)
Weight	0.32 kg (0.7 lb.)
Enclosure material	Anodized aluminum

Shipping information	
Packaging type	Cardboard box
List of contents	MoviTHERM MIO-A310-7 unit, DIN rail adapter clip, manual on USB drive
Packaging weight	0.38 kg (0.84 lb.)
Packaging size (L × W × H)	226 mm × 105 mm × 35 mm (8.88 in. × 4.13 in. × 1.38 in.)
Country of origin	USA

Compatible with the following products:

- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 71001-1103; FLIR A310 ex 25°
- 71001-1104; FLIR A310 ex 45°
- 61201-1102; FLIR A310f 15°



MIO-A310-7

P/N: T130091

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Website

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Customer support

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- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°

P/N: T130169

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Website

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Customer support

<http://support.flir.com>



Model	Thermovision CM
Compatible FLIR camera models	FLIR AX8, FLIR A310
General description	The ThermoVision CM consists of a robust, rugged, and reliable computer with all required software pre-installed and pre-licensed
Typical applications	<ul style="list-style-type: none"> Critical vessel monitoring Condition monitoring Process monitoring

Included software	
Operating system	Windows 7 embedded
Video management system (VMS)	Ethiris VMS 8.0
Maximum cameras supported	4
SCADA/PSIM	WideQuick 7.2
Maximum number of tags	256

System specification	
CPU	Intel Quad-Core J1900
System memory	8 GB
Solid state drive	32 GB for OS, Ethiris VMS, and WideQuick
Video disk storage	2 TB
LAN	2 × GbE RJ45
USB	2 × USB 3.0
Display output	1 × HDMI, 1 × VGA
Audio	1 × line out

Power system	
Power requirements	12–24 V DC, 40 W
Power unit	External PSU, 100–240 V AC, 50–60 Hz, 40 W

Environmental data	
Operation temperature	5–40°C (41–104°F)
Operation humidity	10–90%

Physical data	
Form factor	Desktop model
Dimensions	216 mm × 260 mm × 52 mm (8.50 in. × 10.24 in. × 2.05 in.)
Weight	2.70 kg (5.95 lb.)

Shipping information	
Packaging type	Cardboard box



ThermoVision CM, max. 4 cameras

P/N: T130169

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Shipping information	
List of contents	T130169 unit, quick start guide, power supply, Schuko power cable, network cable
Packaging weight	4.00 kg (8.82 lb.)
Packaging size	360 mm × 295 mm × 133 mm (14.17 in. × 11.61 in. × 5.23 in.)
Country of origin	Sweden

Compatible with the following products:

- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 71001-1103; FLIR A310 ex 25°
- 71001-1104; FLIR A310 ex 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 71201-0101; FLIR AX8 9 Hz

P/N: T130170

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Model	FLIR ThermoVision CM
Compatible FLIR camera models	FLIR AX8, FLIR A310
General description	The ThermoVision CM consists of a robust, rugged, and reliable computer with all required software pre-installed and pre-licensed
Typical applications	<ul style="list-style-type: none"> Critical vessel monitoring Condition monitoring Process monitoring

Included software	
Operating system	Windows 7 embedded
Video management system (VMS)	Ethisis VMS 8.0
Maximum cameras supported	9
SCADA/PSIM	WideQuick 7.2
Maximum number of tags	512

System specification	
CPU	Intel Quad-Core J1900
System memory	8 GB
Solid state drive	32 GB for OS, Ethisis VMS, and WideQuick
Video disk storage	2 TB
LAN	2 × GbE RJ45
USB	2 × USB 3.0
Display output	1 × HDMI, 1 × VGA
Audio	1 × line out

Power system	
Power requirements	12–24 V DC, 40 W
Power unit	External PSU, 100–240 V AC, 50–60 Hz, 40 W

Environmental data	
Operation temperature	5–40°C (41–104°F)
Operation humidity	10–90%

Physical data	
Form factor	Desktop model
Dimensions	216 mm × 260 mm × 52 mm (8.50 in. × 10.24 in. × 2.05 in.)
Weight	2.70 kg (5.95 lb.)

Shipping information	
Packaging type	Cardboard box



ThermoVision CM, max. 9 cameras

P/N: T130170

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Shipping information	
List of contents	T130170 unit, quick start guide, power supply, Schuko power cable, network cable
Packaging weight	4.00 kg (8.82 lb.)
Packaging size	360 mm × 295 mm × 133 mm (14.17 in. × 11.61 in. × 5.23 in.)
Country of origin	Sweden

Compatible with the following products:

- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 71001-1103; FLIR A310 ex 25°
- 71001-1104; FLIR A310 ex 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 71201-0101; FLIR AX8 9 Hz

P/N: T198584

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Website

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Customer support

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General description

FLIR Tools is a software suite specifically designed to provide an easy way to update your camera and create inspection reports.

Key features:

- Report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR).
- Manual IR/Visual Image Grouping
- Import images from your camera to your computer.
- Apply filters when searching for images.
- Search all text in images and text annotations.
- Store the five latest search criteria's.
- Lay out, move, and resize measurement tools on any infrared image.
- Create PDF imagesheets of any images of your choice.
- Add headers, footers, and logos to imagesheets.
- Create PDF reports for images of your choice.
- Add headers, footers, and logos to reports.
- Report editor (report page preview and snap to grid).
- Sort function (by date, groups sorted by path, and groups sorted by date).
- Browse and purchase infrared cameras, software, and accessories in the webshop.
- Software localized to 21 languages.
- Support for MSX (Multi-Spectral Dynamic Imaging) Images
- Support for Sketch Images on both IR and Visual with toggling ON/OFF feature.
- Support for Same FOV (Field of View Match)
- Display of Compass Information in Edit and in Report.
- Display of GPS Information in Edit and in Report.
- Camera update (applies to FLIR Ex, Kxx, Exx and T6xx series only).

Download

This software is a freeware. To download, click the following link:

<http://support.flir.com/tools>

Release notes

Version	5.9
New features in version 5.9	<ul style="list-style-type: none"> • Additional trigger options for FLIR K53, K55, and K65 cameras • Added user account registration and login • New Pleora version support • Various bug fixes
New features in version 5.7	<ul style="list-style-type: none"> • Five modes supported for K65, K55, and K53 cameras. • Support for Kx3 cameras. • Auto gain mode now available for K2 cameras. • Various bug fixes.
New features in version 5.5	<ul style="list-style-type: none"> • Added support for Microsoft Office 2016 (32-bit) for the FLIR Word Reporting module. • Various bug fixes.

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Release notes	
New features in version 5.3	<ul style="list-style-type: none"> Support for the FLIR T1020 and T1040 cameras for import, edit, report creation, and camera update. Support for the FLIR K2 camera for configuration, video streaming, and camera update. Delta (difference) readings are now on one line instead of two.
New features in version 5.2.1	<ul style="list-style-type: none"> Option added to change color distribution mode (histogram equalization, signal linear, temperature linear). Option added to extract photos at their full field of view. Various bug fixes.
New features in version 5.2	<ul style="list-style-type: none"> Support for auto-adjusting a region. Support for zoom. Various bug fixes.
New features in version 5.1	<ul style="list-style-type: none"> Improved import performance. Added support for video recording settings for FLIR Kxx series. Added support for importing video files from FLIR Kxx series. Added support for FLIR C2 camera. Various bug fixes.
New features in version 5.0	<ul style="list-style-type: none"> Local object parameters for measurement tools. Save a report in-process with the ability to edit at a later time. Pull-down menus for text annotations. Variable playback speed for recordings. Show or hide min./max./avg. temperature, and hot/cold markers, for areas and lines. Smoother display for low-resolution images. UltraMax image enhancement. Dropping support for Windows XP. Various bug fixes.
New features in version 4.1	<ul style="list-style-type: none"> Previous/next in Edit mode. Clone in the Library. Extract visual photo from a multispectral image. Import *.mp4, *.seq, and *.csq files from the camera. Playback/edit *.seq and *.csq files. Scale enhancement for the FLIR GF3xx series. Auto resize of thumbnails during importing for the FLIR T6xx series. Grouping/ungrouping now added. Various bug fixes.
New features in version 4.0	<ul style="list-style-type: none"> Support for the new FLIR Ex and Exx series cameras. Interactive quick start guide when connecting a FLIR camera. Improved library view. Support for multispectral images. Support for auto-oriented images. Various bug fixes.
New features in version 3.1	<ul style="list-style-type: none"> Support for FLIR K series cameras. Interactive quick start guide when connecting a FLIR K series camera. Live image streaming from FLIR K series cameras. PC-side configuration of FLIR K series cameras. New report templates for DC images only added. Various bug fixes.
New features in version 3.0	<ul style="list-style-type: none"> Add folder to library. Support for isotherms and color alarms Image description for both IR and DC. Export functionality (*.avi, *.csv). Microsoft Windows 8 (32- and 64-bit) New web installer Various bug fixes.



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Release notes	
New features in version 2.2	<ul style="list-style-type: none"> Camera tab: <ul style="list-style-type: none"> Logging feature in Camera Tab Recording and playback of SEQ files. Various bug fixes.
New features in version 2.1	<ul style="list-style-type: none"> New Text Comment Template Tab: <ul style="list-style-type: none"> Create, Edit and Transfer templates to and from any FLIR Camera. Import and Export of Templates. Support for MSX (Multi-Spectral Dynamic Imaging) Images Support for Sketch Images on both IR and Visual with toggling ON/OFF feature. Support for Same FOV (Field of View Match) Display of Compass Information in Edit and in Report. Display of GPS Information in Edit and in Report. <ul style="list-style-type: none"> Direct Link to Google Maps for GPS Tagged images from Report. Support for 3x5 and 6x5 A-series cameras
New features in version 2.0	<ul style="list-style-type: none"> Camera tab: <ul style="list-style-type: none"> Camera connection with FLIR UVC cameras. Measurement data analysis. Plotting. Snapshot saving with text annotation and plot. Performance improvement for large reports: can now create reports and imagesheets of up to 200 pages. Various bug fixes.
New features in version 1.3	<ul style="list-style-type: none"> Import from ix series cameras. Add and remove a form from a group. Text comments are now saved in the infrared image. The indexing engine can create groups from IR, DC, and text annotations when indexing the paths in the watch folder. Arrow tool in the report toolbar. Reorder pages. Text annotations can now be edited in the report. New report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR). New sample images.
New features in version 1.2 SP1	<ul style="list-style-type: none"> Various bug fixes.
New features in version 1.2	<ul style="list-style-type: none"> Search function: <ul style="list-style-type: none"> Store the five latest search criterias. Search in all texts in images and text annotations. Sort function: <ul style="list-style-type: none"> By date. Groups sorted by by path. Groups sorted by date. Report editor: <ul style="list-style-type: none"> Report page preview. Snap to grid. Various bug fixes.
New features in version 1.1 SP1	<ul style="list-style-type: none"> Extension to the camera update functionality. Various bug fixes
New features in version 1.1	<ul style="list-style-type: none"> Software localized to 21 languages. Camera update. (Exx, T6xx) Option to rotate an infrared image in the infrared editor.

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> Digital download, or CD-ROM
Packaging, weight	0.106 kg (0.23 lb.)



FLIR Tools

P/N: T198584

Revision

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>**Shipping information**

Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005279
UPC-12	845188005481
Country of origin	Sweden

System requirements

Operating system	<ul style="list-style-type: none">• Windows 7, 32-bit• Windows 7, 64-bit• Windows 8, 32-bit• Windows 8, 64-bit• Windows 10, 32-bit• Windows 10, 64-bit
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Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 73309-0102; FLIR A35 f=9 mm with SC kit
- 83225-0101; FLIR A35 FOV 13 (60 Hz, ver. 2017)
- 83213-0102; FLIR A35 FOV 25 (60 Hz, ver. 2017)
- 83207-0102; FLIR A35 FOV 45 (60 Hz, ver. 2017)
- 83250-0101; FLIR A35 FOV 6.5 (60 Hz, ver. 2017)
- 83209-0102; FLIR A35 FOV 69 (30 Hz, ver. 2017)
- 73413-0102; FLIR A65 f=13 mm with SC kit (30 Hz)
- 73513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 75050-0101; FLIR A65 FOV 12.4 (30 Hz, ver. 2016)
- 75025-0101; FLIR A65 FOV 25 (30 Hz, ver. 2016)
- 75013-0101; FLIR A65 FOV 45 (30 Hz, ver. 2016)
- 75010-0101; FLIR A65 FOV 6.2 (30 Hz, ver. 2016)
- 75007-0101; FLIR A65 FOV 90 (30 Hz, ver. 2016)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72001-0101; FLIR C2
- 72002-0202; FLIR C2 Educational Kit
- 72003-0303; FLIR C3 (incl. Wi-Fi)
- 72003-0404; FLIR C3 (incl. Wi-Fi) Educational Kit

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General description

Compared to FLIR Tools, FLIR Tools+ has the following features:

- Radiometric Panorama incl. MSX
- Radiometric IR Video Recording
- Advanced Reporting

FLIR Tools/Tools+ is a software suite specifically designed to provide an easy way to update your camera and create inspection reports.

FLIR Tools+ main features:

- Manual IR/Visual Image Grouping
- Radiometric Panorama incl. MSX
- Radiometric IR Video Recording
- Advanced Reporting for Microsoft Office.
- Report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR).
- Import images from your camera to your computer.
- Apply filters when searching for images.
- Search all text in images and text annotations.
- Store the five latest search criteria's.
- Lay out, move, and resize measurement tools on any infrared image.
- Create PDF imagesheets of any images of your choice.
- Add headers, footers, and logos to imagesheets.
- Create PDF reports for images of your choice.
- Add headers, footers, and logos to reports.
- Report editor (report page preview and snap to grid).
- Sort function (by date, groups sorted by path, and groups sorted by date).
- Browse and purchase infrared cameras, software, and accessories in the webshop.
- Software localized to 21 languages.
- Support for MSX (Multi-Spectral Dynamic Imaging) Images
- Support for Sketch Images on both IR and Visual with toggling ON/OFF feature.
- Support for Same FOV (Field of View Match)
- Display of Compass Information in Edit and in Report.
- Display of GPS Information in Edit and in Report.
- Camera update (applies to FLIR Ex, Kxx, Exx and T6xx series only).

Download

Download a 30-day evaluation version here:

<http://support.flir.com/toolsplus>

Release notes

Version	5.9
New features in version 5.9	<ul style="list-style-type: none"> • Additional trigger options for FLIR K53, K55, and K65 cameras • Added user account registration and login • New Pleora version support • Various bug fixes
New features in version 5.7	<ul style="list-style-type: none"> • Five modes supported for K65, K55, and K53 cameras. • Support for Kx3 cameras. • Auto gain mode now available for K2 cameras. • Various bug fixes.



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Release notes	
New features in version 5.5	<ul style="list-style-type: none"> Added support for Microsoft Office 2016 (32-bit) for the FLIR Word Reporting module. Various bug fixes.
New features in version 5.3	<ul style="list-style-type: none"> Support for the FLIR T1020 and T1040 cameras for import, edit, report creation, and camera update. Support for the FLIR K2 camera for configuration, video streaming, and camera update. Delta (difference) readings are now on one line instead of two.
New features in version 5.2.1	<ul style="list-style-type: none"> Option added to change color distribution mode (histogram equalization, signal linear, temperature linear). "Rapid Report" shortcuts added to simplify reporting using a drag-and-drop operation. Option added to extract photos at their full field of view. Two new templates for express export added (Photo_Large and Thermalx1 Photox2). Various bug fixes.
New features in version 5.2	<ul style="list-style-type: none"> Support for auto-adjusting a region. Support for zoom. Express Microsoft Word reporting (*.docx). Various bug fixes.
New features in version 5.1	<ul style="list-style-type: none"> Improved import performance. Added support for video recording settings for FLIR Kxx series. Added support for importing video files from FLIR Kxx series. Added support for FLIR C2 camera. Various bug fixes.
New features in version 5.0	<ul style="list-style-type: none"> Local object parameters for measurement tools. Save a report in-process with the ability to edit at a later time. Pull-down menus for text annotations. Variable playback speed for recordings. Show or hide min./max./avg. temperature, and hot/cold markers, for areas and lines. Smoother display for low-resolution images. UltraMax image enhancement. Dropping support for Windows XP. Various bug fixes.
New features in version 4.1	<ul style="list-style-type: none"> Previous/next in Edit mode. Clone in the Library. Extract visual photo from a multispectral image. Import *.mp4, *.seq, and *.csq files from the camera. Playback/edit *.seq and *.csq files. Scale enhancement for the FLIR GF3xx series. Auto resize of thumbnails during importing for the FLIR T6xx series. Grouping/ungrouping now added. Various bug fixes.
New features in version 4.0	<ul style="list-style-type: none"> Support for the new FLIR Ex and Exx series cameras. Interactive quick start guide when connecting a FLIR camera. Improved library view. Support for multispectral images. Support for auto-oriented images. Various bug fixes.
New features in version 3.1	<ul style="list-style-type: none"> Support for FLIR K series cameras. Interactive quick start guide when connecting a FLIR K series camera. Live image streaming from FLIR K series cameras. PC-side configuration of FLIR K series cameras. New report templates for DC images only added. Various bug fixes.



FLIR Tools+ (download card incl. license key)

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>**Release notes**

New features in version 3.0

- Add folder to library.
- Support for isotherms and color alarms
- Image description for both IR and DC.
- Export functionality (*.avi, *.csv).
- Microsoft Windows 8 (32- and 64-bit)
- New web installer
- Radiometric panorama with MSX images.
- Advanced reports.
- Manual grouping/ungrouping of images.
- Various bug fixes.

New features in version 2.2

- Camera tab:
 - Logging feature in Camera Tab
 - Recording and playback of SEQ files.
- Various bug fixes.

Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• FLIR Tools+ (download card incl. license key)
Packaging, weight	0.059 kg (0.13 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	73325585378 4743254001442 (Estonia plant)
UPC-12	845188005580
Country of origin	Sweden

System requirements

Operating system

- Windows 7, 32-bit
- Windows 7, 64-bit
- Windows 8, 32-bit
- Windows 8, 64-bit
- Windows 10, 32-bit
- Windows 10, 64-bit

Software requirements

- Office 2007 (32-bit)
- Office 2010 (32-bit)
- Office 2013 (32-bit)
- Office 2016 (32-bit)

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 73309-0102; FLIR A35 f=9 mm with SC kit
- 83225-0101; FLIR A35 FOV 13 (60 Hz, ver. 2017)
- 83213-0102; FLIR A35 FOV 25 (60 Hz, ver. 2017)
- 83207-0102; FLIR A35 FOV 45 (60 Hz, ver. 2017)
- 83250-0101; FLIR A35 FOV 6.5 (60 Hz, ver. 2017)
- 83209-0102; FLIR A35 FOV 69 (30 Hz, ver. 2017)
- 73413-0102; FLIR A65 f=13 mm with SC kit (30 Hz)
- 73513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 75050-0101; FLIR A65 FOV 12.4 (30 Hz, ver. 2016)
- 75025-0101; FLIR A65 FOV 25 (30 Hz, ver. 2016)
- 75013-0101; FLIR A65 FOV 45 (30 Hz, ver. 2016)
- 75010-0101; FLIR A65 FOV 6.2 (30 Hz, ver. 2016)
- 75007-0101; FLIR A65 FOV 90 (30 Hz, ver. 2016)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°



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Website

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Customer support

<http://support.flir.com>

- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 84502-0201; FLIR E53 24°
- 78501-0101; FLIR E75 14°
- 78502-0101; FLIR E75 24°
- 78504-0101; FLIR E75 24° + 14°
- 78506-0101; FLIR E75 24° + 14° & 42°
- 78505-0101; FLIR E75 24° + 42°
- 78503-0101; FLIR E75 42°
- 78507-0101; FLIR E75 42° + 14°
- 78501-0201; FLIR E85 14°
- 78502-0201; FLIR E85 24°
- 78504-0201; FLIR E85 24° + 14°
- 78506-0201; FLIR E85 24° + 14° & 42°
- 78505-0201; FLIR E85 24° + 42°
- 78503-0201; FLIR E85 42°
- 78507-0201; FLIR E85 42° + 14°
- 78501-0301; FLIR E95 14°
- 78502-0301; FLIR E95 24°
- 78504-0301; FLIR E95 24° + 14°
- 78506-0301; FLIR E95 24° + 14° & 42°
- 78505-0301; FLIR E95 24° + 42°
- 78503-0301; FLIR E95 42°
- 78507-0301; FLIR E95 42° + 14°
- 63901-0101; FLIR E4
- 63906-0604; FLIR E4 (incl. Wi-Fi)
- 63905-0501; FLIR E5
- 63909-0904; FLIR E5 (incl. Wi-Fi)
- 63902-0202; FLIR E6
- 63907-0704; FLIR E6 (incl. Wi-Fi)
- 63903-0303; FLIR E8
- 63908-0805; FLIR E8 (incl. Wi-Fi)
- 79301-0101; FLIR T530 14°
- 79302-0101; FLIR T530 24°
- 79304-0101; FLIR T530 24° + 14°
- 79306-0101; FLIR T530 24° + 14° & 42°
- 79305-0101; FLIR T530 24° + 42°
- 79303-0101; FLIR T530 42°
- 79307-0101; FLIR T530 42° + 14°
- 79301-0201; FLIR T540 14°
- 79302-0201; FLIR T540 24°
- 79304-0201; FLIR T540 24° + 14°



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 79306-0201; FLIR T540 24° + 14° & 42°
- 79305-0201; FLIR T540 24° + 42°
- 79303-0201; FLIR T540 42°
- 79307-0201; FLIR T540 42° + 14°
- 72001-0101; FLIR C2
- 72002-0202; FLIR C2 Educational Kit
- 72003-0303; FLIR C3 (incl. Wi-Fi)
- 72003-0404; FLIR C3 (incl. Wi-Fi) Educational Kit

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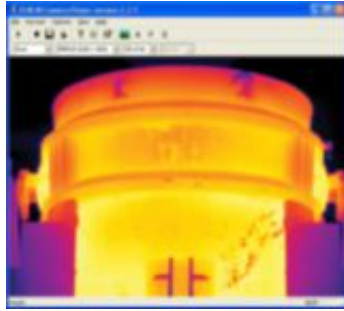
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Website

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Customer support

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General description
FLIR IR Camera Player is a PC-based remote control and viewer that you can use with cameras from FLIR Systems.
You can perform one or more of the following with FLIR IR Camera Player:
<ul style="list-style-type: none"> Record a video stream from the camera. Save a frame from the video stream as a snapshot image (*.bmp). Autofocus, focus far, and focus near. Autoadjust the camera image. Freeze the camera image. Save a camera image in the camera. Change Color palette. Add an image description and a text comment to an image.
You connect a camera in one of the following ways:
<ul style="list-style-type: none"> Ethernet FireWire USB

Download
This software is a freeware. To download, click the following link:
http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=89

Release notes	
Version	2.3.3
New features	Main improvements in version 2.3.3: <ul style="list-style-type: none"> Added latest device drivers (1.9.1.0). Various bugfixes Main improvements in version 2.2.7: <ul style="list-style-type: none"> Added support for FLIR Ax5 series.

System requirements	
Operating system	<ul style="list-style-type: none"> Windows XP, 32-bit Windows Vista, 32-bit/64-bit Windows 7, 32-bit/64-bit

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)



FLIR IR Camera Player

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Website

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Customer support

<http://support.flir.com>

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 73309-0102; FLIR A35 f=9 mm with SC kit
- 83225-0101; FLIR A35 FOV 13 (60 Hz, ver. 2017)
- 83213-0102; FLIR A35 FOV 25 (60 Hz, ver. 2017)
- 83207-0102; FLIR A35 FOV 45 (60 Hz, ver. 2017)
- 83250-0101; FLIR A35 FOV 6.5 (60 Hz, ver. 2017)
- 83209-0102; FLIR A35 FOV 69 (30 Hz, ver. 2017)
- 73413-0102; FLIR A65 f=13 mm with SC kit (30 Hz)
- 73513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 75050-0101; FLIR A65 FOV 12.4 (30 Hz, ver. 2016)
- 75025-0101; FLIR A65 FOV 25 (30 Hz, ver. 2016)
- 75013-0101; FLIR A65 FOV 45 (30 Hz, ver. 2016)
- 75010-0101; FLIR A65 FOV 6.2 (30 Hz, ver. 2016)
- 75007-0101; FLIR A65 FOV 90 (30 Hz, ver. 2016)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

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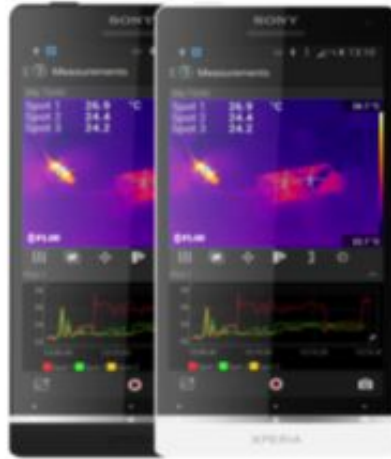
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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
FLIR Tools Mobile is an intuitive Android app for analyzing, managing, and distributing infrared images.	
Key features:	
<ul style="list-style-type: none"> • Remote control • MSX • Images with sketch on DC and IR • Images with field of view follow • Editable text comments • Emissivity table • Import images from your Wi-Fi-enabled camera. • Connect and stream infrared images from the camera. • Connect and stream measurement data from FLIR Test & Measurement meters • Lay out and move measurement tools on the image. • Read out temperature measurements. • Create and configure temporal plots based on results of measurement tools on the infrared image. • Log measurement data and export it as a *.csv file. • Save a measurement scenario as a data snapshot. • Zoom in on images. • On the Android device, remotely take snapshots when a camera is connected. • On the camera, take snapshots that will automatically be saved on the Android device. • Delete images on the Android device. • Display an image's GPS coordinates on Google Maps. • Create and e-mail reports. • Save images in the Android device photo library. • Send images to FTP sites and other file-sharing services (Dropbox, Box.net, etc.). • Display image information, e.g., object parameters, text comments, and file details. • Play back voice comments. • Change the level and span. • Change general settings in the app. • Change the palette. 	
Download	
The application can be downloaded from Android Market or Amazon Marketplace, see the link below.	
https://market.android.com/details?id=com.flir.viewer	
Release notes	
Version	3.8.0
New features	Main improvements in version 3.8.0: <ul style="list-style-type: none"> • Fixed loading of Japanese help files. • Fixed import bug for Samsung S6. • Fixed opening image taken from CAT S60. • Support for Ex, C3, and the new Exx cameras. • Import from Work folders. • Area measurement and length measurement feature based on object distance. • Various bug fixes.



FLIR Tools Mobile (Android Application)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

System requirements

Operating system

- Android 4.03 and later

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

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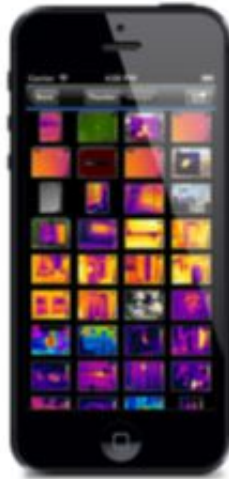
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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

FLIR Tools Mobile lets professional thermographers use an iPad, iPhone, or iPod touch to see and capture live, streaming infrared video and stills from select FLIR cameras.

With FLIR Tools Mobile the camera can be stationed in one area and operated wirelessly from another – highly useful for IR inspections of energized equipment or performing IR surveys in hard-to-reach locations and harsh working environments. Streaming video and remote access also gives decision makers and others on your team a valuable opportunity to observe and collaborate in the thermal imaging process.

Using FLIR Tools Mobile, you can do one or more of the following:

- Import images from your infrared camera
- Lay out and move measurement tools on the image
- Read out temperature measurements
- Zoom in on images
- On the iPhone/iPad, remotely take snapshots when a camera is connected
- On the camera, take snapshots that will automatically be saved in the iPhone/iPad
- Delete any images on the iPhone/iPad
- Display an image's GPS coordinates on Google Maps
- Create and e-mail imagesheets
- Create and e-mail reports
- Print imagesheets and reports to any AirPrint-enabled printer
- Save images to iPhone/iPad photo library
- Send images to FTP sites and other file sharing services (Dropbox, Box.net, etc.)
- Display image information, such as object parameters, text comments, file information, etc.
- Play-back voice comments
- Change level and span
- Change general settings in the app
- Change palette

FLIR Tools Mobile lets you take control of the following features on selected cameras:

- Remote control of your FLIR camera.
- Support for MSX (Multi-Spectral Dynamic Imaging) images.
- Support for sketch images in both IR and visual with on/off toggling.
- Support for same FOV ("Field of View Match").
- Editable text comments.
- Auto and manual focus
- Level and span
- Color palettes
- Temperature measurement analytics
- Spot
- Area box
- Circle
- Line
- Parameter settings
- Emissivity
- Reflected temperature
- Relative humidity
- Atmospheric temperature
- IR and visible light image blending
- Picture-in-picture
- Thermal fusion
- Image storage
- MPEG 4 video
- Radiometric JPEG stills



FLIR Tools Mobile (iPad/iPhone Application)

P/N: APP-10003

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>**Download**

The application can be downloaded from App Store, see the link below.

<http://itunes.apple.com/app/flir-tools/id511247887?mt=8>**Release notes**

Version

1.8.2

New features

Main improvements in version 1.8.2:
Various bug fixes.**System requirements**

Operating system

• iOS 8.0 or later

Hardware requirements

• iPhone
• iPad
• iPod**Compatible with the following products:**

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

FLIR ResearchIR Max + HSDR 4 contains all the features of FLIR ResearchIR Max 4, plus support for FLIR High Speed Data Recorder (HSDR) products.

Main features:

- Pre/post-recording.
- Mathematical processing toolbox.
- Image filtering toolbox.
- Radiometric digital detail enhancement (DDE) improves dramatically the understanding of the thermal image, while maintaining radiometric measurement accuracy.
- View, record and store images at high speed.
- Post-processing of fast thermal events.
- Generate time-temperature plots from live images or recorded sequences.
- Advanced start/stop recording conditions.
- Unlimited number of analysis functions (spot, line, area).
- File organizer.
- Zoom and pan allows a closer look.
- Multiple dockable objects for plots and statistics.
- Export images and results to bitmap, video, Excel, MATLAB or CSV formats
- Local scale gain control on measurement - automatically adjusts the contrast in a specific part of the image.

FLIR ResearchIR Max + HSDR 4 in combination with a FLIR thermal imaging camera is the perfect solution for any R&D or scientific application. It will allow researchers in all fields to make the smallest of temperature differences visible and to thoroughly analyze the thermal process in real-time.

Download

Download your copy of FLIR ResearchIR Max + HSDR 4 here (hardware security device required to run the software):

<http://support.flir.com/rir4>

Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • FLIR ResearchIR Max + HSDR 4 download card. • Hardware security device.
Packaging, weight	0.068 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558007280
UPC-12	845188007652
Country of origin	Sweden

Compatible with the following products:

- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°



FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)

P/N: T198697

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens



FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)

P/N: T198697

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description
FLIR ResearchIR Max + HSDR 4 contains all the features of FLIR ResearchIR Max 4, plus support for FLIR High Speed Data Recorder (HSDR) products.
Main features:
<ul style="list-style-type: none"> • Pre/post-recording. • Mathematical processing toolbox. • Image filtering toolbox. • Radiometric digital detail enhancement (DDE) improves dramatically the understanding of the thermal image, while maintaining radiometric measurement accuracy. • View, record and store images at high speed. • Post-processing of fast thermal events. • Generate time-temperature plots from live images or recorded sequences. • Advanced start/stop recording conditions. • Unlimited number of analysis functions (spot, line, area). • File organizer. • Zoom and pan allows a closer look. • Multiple dockable objects for plots and statistics. • Export images and results to bitmap, video, Excel, MATLAB or CSV formats • Local scale gain control on measurement - automatically adjusts the contrast in a specific part of the image.
FLIR ResearchIR Max + HSDR 4 in combination with a FLIR thermal imaging camera is the perfect solution for any R&D or scientific application. It will allow researchers in all fields to make the smallest of temperature differences visible and to thoroughly analyze the thermal process in real-time.

Download
Download your copy of FLIR ResearchIR Max + HSDR 4 here (evaluation copy only – license key required):
http://support.flir.com/rir4

Shipping information	
Packaging, type	Cardboard box
List of contents	FLIR ResearchIR Max + HSDR 4 download card, incl. license key.
Packaging, weight	0.068 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558010464
UPC-12	845188011116
Country of origin	Sweden

Compatible with the following products:

- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case



FLIR ResearchIR Max + HSDR 4 (printed license key)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)



FLIR ResearchIR Max + HSDR 4 (printed license key)

P/N: T199014

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

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Website

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Customer support

<http://support.flir.com>



General description

FLIR ResearchIR Max + HSDR 4 contains all the features of FLIR ResearchIR Max 4, plus support for FLIR High Speed Data Recorder (HSDR) products.

Main features:

- Pre/post-recording.
- Mathematical processing toolbox.
- Image filtering toolbox.
- Radiometric digital detail enhancement (DDE) improves dramatically the understanding of the thermal image, while maintaining radiometric measurement accuracy.
- View, record and store images at high speed.
- Post-processing of fast thermal events.
- Generate time-temperature plots from live images or recorded sequences.
- Advanced start/stop recording conditions.
- Unlimited number of analysis functions (spot, line, area).
- File organizer.
- Zoom and pan allows a closer look.
- Multiple dockable objects for plots and statistics.
- Export images and results to bitmap, video, Excel, MATLAB or CSV formats
- Local scale gain control on measurement - automatically adjusts the contrast in a specific part of the image.

FLIR ResearchIR Max + HSDR 4 in combination with a FLIR thermal imaging camera is the perfect solution for any R&D or scientific application. It will allow researchers in all fields to make the smallest of temperature differences visible and to thoroughly analyze the thermal process in real-time.

Download

Download your copy of FLIR ResearchIR Max + HSDR 4 here (evaluation copy only – license key required):

<http://support.flir.com/rir4>

Shipping information

Packaging, type	Cardboard box
List of contents	FLIR ResearchIR Max + HSDR 4 download card, incl. license key.
Packaging, weight	0.068 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558010495
UPC-12	845188011147
Country of origin	Sweden

Compatible with the following products:

- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case



FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)

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Website

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Customer support

<http://support.flir.com>

- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)



FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

P/N: T198696

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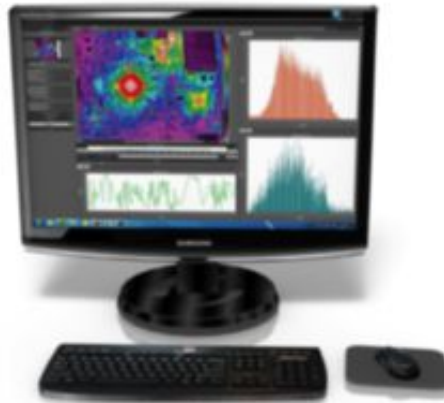
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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

FLIR ResearchIR Max 4 is aimed at R&D and science professionals who use thermal imaging cameras with a cooled or uncooled detectors. FLIR ResearchIR Max makes the most of a thermal imaging camera, and allows high-speed recording and advanced thermal pattern analysis. FLIR ResearchIR Max is the perfect tool for industrial R&D.

Main features:

- Pre/post-recording.
- Mathematical processing toolbox.
- Image filtering toolbox.
- Radiometric digital detail enhancement (DDE) improves dramatically the understanding of the thermal image, while maintaining radiometric measurement accuracy.
- View, record and store images at high speed.
- Post-processing of fast thermal events.
- Generate time-temperature plots from live images or recorded sequences.
- Advanced start/stop recording conditions.
- Unlimited number of analysis functions (spot, line, area).
- File organizer.
- Zoom and pan allows a closer look.
- Multiple dockable objects for plots and statistics.
- Export images and results to bitmap, video, Excel, MATLAB or CSV formats
- Local scale gain control on measurement - automatically adjusts the contrast in a specific part of the image.

FLIR ResearchIR Max 4 in combination with a FLIR thermal imaging camera is the perfect solution for any R&D or scientific application. It will allow researchers in all fields to make the smallest of temperature differences visible and to thoroughly analyze the thermal process in real-time.

Download

Download your copy of FLIR ResearchIR Max 4 here (hardware security device required to run the software):

<http://support.flir.com/rir4>

Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • FLIR ResearchIR Max 4 download card. • Hardware security device.
Packaging, weight	0.066 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558007266
UPC-12	845188007638
Country of origin	Sweden

Compatible with the following products:

- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0401; FLIR T1050sc 12°



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 84502-0201; FLIR E53 24°
- 78501-0101; FLIR E75 14°
- 78502-0101; FLIR E75 24°
- 78504-0101; FLIR E75 24° + 14°
- 78506-0101; FLIR E75 24° + 14° & 42°
- 78505-0101; FLIR E75 24° + 42°
- 78503-0101; FLIR E75 42°
- 78507-0101; FLIR E75 42° + 14°
- 78501-0201; FLIR E85 14°
- 78502-0201; FLIR E85 24°
- 78504-0201; FLIR E85 24° + 14°
- 78506-0201; FLIR E85 24° + 14° & 42°
- 78505-0201; FLIR E85 24° + 42°
- 78503-0201; FLIR E85 42°
- 78507-0201; FLIR E85 42° + 14°
- 78501-0301; FLIR E95 14°
- 78502-0301; FLIR E95 24°
- 78504-0301; FLIR E95 24° + 14°
- 78506-0301; FLIR E95 24° + 14° & 42°
- 78505-0301; FLIR E95 24° + 42°
- 78503-0301; FLIR E95 42°
- 78507-0301; FLIR E95 42° + 14°
- 79301-0101; FLIR T530 14°
- 79302-0101; FLIR T530 24°
- 79304-0101; FLIR T530 24° + 14°
- 79306-0101; FLIR T530 24° + 14° & 42°
- 79305-0101; FLIR T530 24° + 42°
- 79303-0101; FLIR T530 42°
- 79307-0101; FLIR T530 42° + 14°
- 79301-0201; FLIR T540 14°
- 79302-0201; FLIR T540 24°
- 79304-0201; FLIR T540 24° + 14°
- 79306-0201; FLIR T540 24° + 14° & 42°
- 79305-0201; FLIR T540 24° + 42°
- 79303-0201; FLIR T540 42°
- 79307-0201; FLIR T540 42° + 14°

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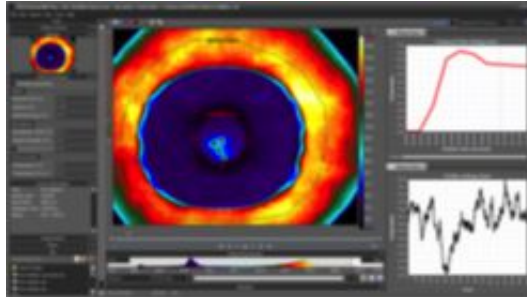
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Download

Download your copy of FLIR ResearchIR Max 4 here (evaluation copy only – license key required):

<http://support.flir.com/rir4>

Shipping information

Packaging, type	Cardboard box
List of contents	FLIR ResearchIR Max 4 download card, incl. license key.
Packaging, weight	0.066 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558010457
UPC-12	845188011109
Country of origin	Sweden

Compatible with the following products:

- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case



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Website

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Customer support

<http://support.flir.com>

- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 84502-0201; FLIR E53 24°
- 78501-0101; FLIR E75 14°
- 78502-0101; FLIR E75 24°
- 78504-0101; FLIR E75 24° + 14°
- 78506-0101; FLIR E75 24° + 14° & 42°
- 78505-0101; FLIR E75 24° + 42°
- 78503-0101; FLIR E75 42°
- 78507-0101; FLIR E75 42° + 14°
- 78501-0201; FLIR E85 14°
- 78502-0201; FLIR E85 24°
- 78504-0201; FLIR E85 24° + 14°
- 78506-0201; FLIR E85 24° + 14° & 42°
- 78505-0201; FLIR E85 24° + 42°
- 78503-0201; FLIR E85 42°
- 78507-0201; FLIR E85 42° + 14°
- 78501-0301; FLIR E95 14°
- 78502-0301; FLIR E95 24°
- 78504-0301; FLIR E95 24° + 14°
- 78506-0301; FLIR E95 24° + 14° & 42°
- 78505-0301; FLIR E95 24° + 42°
- 78503-0301; FLIR E95 42°
- 78507-0301; FLIR E95 42° + 14°
- 79301-0101; FLIR T530 14°
- 79302-0101; FLIR T530 24°
- 79304-0101; FLIR T530 24° + 14°
- 79306-0101; FLIR T530 24° + 14° & 42°
- 79305-0101; FLIR T530 24° + 42°
- 79303-0101; FLIR T530 42°
- 79307-0101; FLIR T530 42° + 14°
- 79301-0201; FLIR T540 14°
- 79302-0201; FLIR T540 24°
- 79304-0201; FLIR T540 24° + 14°
- 79306-0201; FLIR T540 24° + 14° & 42°
- 79305-0201; FLIR T540 24° + 42°
- 79303-0201; FLIR T540 42°
- 79307-0201; FLIR T540 42° + 14°

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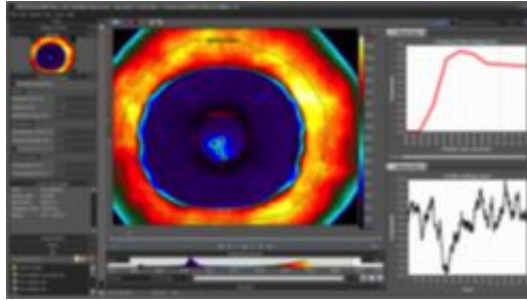
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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description
FLIR ResearchIR Max 4 is aimed at R&D and science professionals who use thermal imaging cameras with a cooled or uncooled detectors. FLIR ResearchIR Max makes the most of a thermal imaging camera, and allows high-speed recording and advanced thermal pattern analysis. FLIR ResearchIR Max is the perfect tool for industrial R&D.
Main features:
<ul style="list-style-type: none"> • Pre/post-recording. • Mathematical processing toolbox. • Image filtering toolbox. • Radiometric digital detail enhancement (DDE) improves dramatically the understanding of the thermal image, while maintaining radiometric measurement accuracy. • View, record and store images at high speed. • Post-processing of fast thermal events. • Generate time-temperature plots from live images or recorded sequences. • Advanced start/stop recording conditions. • Unlimited number of analysis functions (spot, line, area). • File organizer. • Zoom and pan allows a closer look. • Multiple dockable objects for plots and statistics. • Export images and results to bitmap, video, Excel, MATLAB or CSV formats • Local scale gain control on measurement - automatically adjusts the contrast in a specific part of the image.
FLIR ResearchIR Max 4 in combination with a FLIR thermal imaging camera is the perfect solution for any R&D or scientific application. It will allow researchers in all fields to make the smallest of temperature differences visible and to thoroughly analyze the thermal process in real-time.

Download
Download your copy of FLIR ResearchIR Max 4 here (evaluation copy only – license key required):
http://support.flir.com/rir4

Shipping information	
Packaging, type	Cardboard box
List of contents	FLIR ResearchIR Max 4 download card, incl. license key.
Packaging, weight	0.066 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558010488
UPC-12	845188011130
Country of origin	Sweden

Compatible with the following products:

- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case



FLIR ResearchIR Max 4 Upgrade (printed license key)

P/N: T199043

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Website

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Customer support

<http://support.flir.com>

- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)



FLIR ResearchIR Max 4 Upgrade (printed license key)

P/N: T199043

Revision

42932

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 84502-0201; FLIR E53 24°
- 78501-0101; FLIR E75 14°
- 78502-0101; FLIR E75 24°
- 78504-0101; FLIR E75 24° + 14°
- 78506-0101; FLIR E75 24° + 14° & 42°
- 78505-0101; FLIR E75 24° + 42°
- 78503-0101; FLIR E75 42°
- 78507-0101; FLIR E75 42° + 14°
- 78501-0201; FLIR E85 14°
- 78502-0201; FLIR E85 24°
- 78504-0201; FLIR E85 24° + 14°
- 78506-0201; FLIR E85 24° + 14° & 42°
- 78505-0201; FLIR E85 24° + 42°
- 78503-0201; FLIR E85 42°
- 78507-0201; FLIR E85 42° + 14°
- 78501-0301; FLIR E95 14°
- 78502-0301; FLIR E95 24°
- 78504-0301; FLIR E95 24° + 14°
- 78506-0301; FLIR E95 24° + 14° & 42°
- 78505-0301; FLIR E95 24° + 42°
- 78503-0301; FLIR E95 42°
- 78507-0301; FLIR E95 42° + 14°
- 79301-0101; FLIR T530 14°
- 79302-0101; FLIR T530 24°
- 79304-0101; FLIR T530 24° + 14°
- 79306-0101; FLIR T530 24° + 14° & 42°
- 79305-0101; FLIR T530 24° + 42°
- 79303-0101; FLIR T530 42°
- 79307-0101; FLIR T530 42° + 14°
- 79301-0201; FLIR T540 14°
- 79302-0201; FLIR T540 24°
- 79304-0201; FLIR T540 24° + 14°
- 79306-0201; FLIR T540 24° + 14° & 42°
- 79305-0201; FLIR T540 24° + 42°
- 79303-0201; FLIR T540 42°
- 79307-0201; FLIR T540 42° + 14°

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Website

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General description	
FLIR ResearchIR Standard 4.0 is aimed at the R&D benchtop testing environment for users of uncooled cameras. FLIR ResearchIR Standard provides the core analysis tools needed for rapid testing and assessment of thermal issues.	
Main features:	
<ul style="list-style-type: none"> • View live imagery from the camera • Record snapshots or movies to disk. • Post-processing of fast thermal events. • Generate time-temperature plots from live images or recorded sequences. • Analysis by region (spot, line, area). • File organizer. • Zoom and pan allows a closer look. • Multiple dockable objects for plots and statistics. • Export images and results to bitmap, Excel, or CSV formats 	
FLIR ResearchIR Standard 4 in combination with a FLIR thermal imaging camera is the perfect solution for any benchtop testing application application.	

Shipping information	
List of contents	<ul style="list-style-type: none"> • FLIR ResearchIR Standard download card. • Hardware security device.
Packaging, weight	0.069 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558008638
UPC-12	845188009151
Country of origin	Sweden

Compatible with the following products:

- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)

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Website

<http://www.flir.com>

Customer support

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- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 78502-0101; FLIR E75 24°
- 78504-0101; FLIR E75 24° + 14°
- 78506-0101; FLIR E75 24° + 14° & 42°



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Website

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Customer support

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- 78505-0101; FLIR E75 24° + 42°
- 78503-0101; FLIR E75 42°
- 78507-0101; FLIR E75 42° + 14°
- 78502-0201; FLIR E85 24°
- 78504-0201; FLIR E85 24° + 14°
- 78506-0201; FLIR E85 24° + 14° & 42°
- 78505-0201; FLIR E85 24° + 42°
- 78503-0201; FLIR E85 42°
- 78507-0201; FLIR E85 42° + 14°
- 78502-0301; FLIR E95 24°
- 78504-0301; FLIR E95 24° + 14°
- 78506-0301; FLIR E95 24° + 14° & 42°
- 78505-0301; FLIR E95 24° + 42°
- 78503-0301; FLIR E95 42°
- 78507-0301; FLIR E95 42° + 14°
- 79302-0101; FLIR T530 24°
- 79306-0101; FLIR T530 24° + 14° & 42°
- 79305-0101; FLIR T530 24° + 42°
- 79304-0101; FLIR T530 24° + 14°
- 79303-0101; FLIR T530 42°
- 79307-0101; FLIR T530 42° + 14°
- 79302-0201; FLIR T540 24°
- 79304-0201; FLIR T540 24° + 14°
- 79306-0201; FLIR T540 24° + 14° & 42°
- 79305-0201; FLIR T540 24° + 42°
- 79303-0201; FLIR T540 42°
- 79307-0201; FLIR T540 42° + 14°

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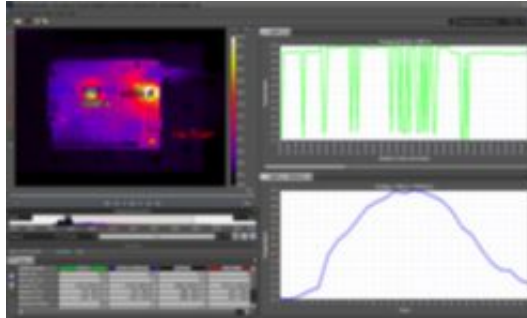
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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description
FLIR ResearchIR Standard 4 is aimed at the R&D benchtop testing environment for users of uncooled cameras. FLIR ResearchIR Standard provides the core analysis tools needed for rapid testing and assessment of thermal issues.
Main features:
<ul style="list-style-type: none"> • View live imagery from the camera • Record snapshots or movies to disk. • Post-processing of fast thermal events. • Generate time-temperature plots from live images or recorded sequences. • Analysis by region (spot, line, area). • File organizer. • Zoom and pan allows a closer look. • Multiple dockable objects for plots and statistics. • Export images and results to bitmap, Excel, or CSV formats
FLIR ResearchIR Standard 4 in combination with a FLIR thermal imaging camera is the perfect solution for any benchtop testing application application.

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Download your copy of FLIR ResearchIR 4 here (evaluation copy only – license key required):
http://support.flir.com/rir4

Shipping information	
List of contents	FLIR ResearchIR Standard download card, incl. license key.
Packaging, weight	0.069 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558010440
UPC-12	845188011093
Country of origin	Sweden

Compatible with the following products:

- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)

P/N: T199012

Revision

42932

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2017-05-30 15:32 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72002-0202; FLIR C2 Educational Kit

P/N: T199042

Revision

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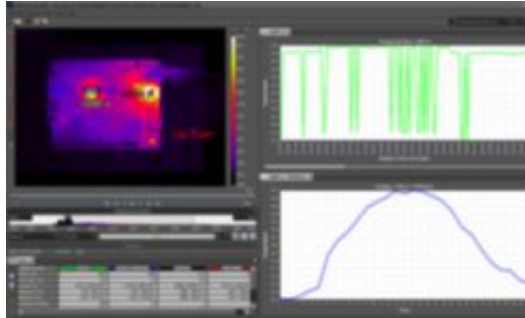
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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

FLIR ResearchIR Standard 4 is aimed at the R&D benchtop testing environment for users of uncooled cameras. FLIR ResearchIR Standard provides the core analysis tools needed for rapid testing and assessment of thermal issues.

Main features:

- View live imagery from the camera
- Record snapshots or movies to disk.
- Post-processing of fast thermal events.
- Generate time-temperature plots from live images or recorded sequences.
- Analysis by region (spot, line, area).
- File organizer.
- Zoom and pan allows a closer look.
- Multiple dockable objects for plots and statistics.
- Export images and results to bitmap, Excel, or CSV formats

FLIR ResearchIR Standard 4 in combination with a FLIR thermal imaging camera is the perfect solution for any benchtop testing application application.

Download

Download your copy of FLIR ResearchIR 4 here (evaluation copy only – license key required):

<http://support.flir.com/rir4>

Shipping information

List of contents	FLIR ResearchIR Standard download card, incl. license key.
Packaging, weight	0.069 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558010471
UPC-12	845188011123
Country of origin	Sweden

Compatible with the following products:

- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)



FLIR ResearchIR Standard 4 Upgrade (printed license key)

P/N: T199042

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Website

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Customer support

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- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

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Revision

32685

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Website

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Customer support

<http://support.flir.com>



General description

The FLIR Atlas SDK for .NET is a software development kit that enables developers to create applications. Supported by help files and sample code, developers can add functionality or collaborate with other FLIR products to get the result they want in their application.

Key features:

- Supports communication and streaming using FireWire, Gigabit, RTSP, and USB interfaces.
- Gives the user full control of the camera.
- Supports recording of images using FireWire, Gigabit, RTSP, and USB interfaces.
- Converts 16-bit signal pixels into temperature data, for maximum user flexibility.
- Allows 16-bit temperature linear, histogram, and signal outputs.

Release notes

Version	3.1
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Shipping information

Packaging, type	Cardboard box
List of contents	Download card with printed license key
Packaging, weight	0.056 kg (0.123 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558011126
UPC-12	845188012014
Country of origin	Sweden

System requirements

Operating system	<ul style="list-style-type: none"> • Windows 7 (32- and 64-bit) • Windows 8 (32- and 64-bit) • Windows 10 (32- and 64-bit)
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Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case

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Website

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Customer support

<http://support.flir.com>

- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 73309-0102; FLIR A35 f=9 mm with SC kit
- 83225-0101; FLIR A35 FOV 13 (60 Hz, ver. 2017)
- 83213-0102; FLIR A35 FOV 25 (60 Hz, ver. 2017)
- 83207-0102; FLIR A35 FOV 45 (60 Hz, ver. 2017)
- 83250-0101; FLIR A35 FOV 6.5 (60 Hz, ver. 2017)
- 83209-0102; FLIR A35 FOV 69 (30 Hz, ver. 2017)
- 73413-0102; FLIR A65 f=13 mm with SC kit (30 Hz)
- 73513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 75050-0101; FLIR A65 FOV 12.4 (30 Hz, ver. 2016)
- 75025-0101; FLIR A65 FOV 25 (30 Hz, ver. 2016)
- 75013-0101; FLIR A65 FOV 45 (30 Hz, ver. 2016)
- 75010-0101; FLIR A65 FOV 6.2 (30 Hz, ver. 2016)
- 75007-0101; FLIR A65 FOV 90 (30 Hz, ver. 2016)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 65702-0102; FLIR GF343 24° Fixed lens
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 71502-0101; FLIR G300 a 14.5° fixed lens
- 71502-0102; FLIR G300 a 24° fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 63901-0101; FLIR E4
- 63906-0604; FLIR E4 (incl. Wi-Fi)
- 63905-0501; FLIR E5
- 63909-0904; FLIR E5 (incl. Wi-Fi)
- 63902-0202; FLIR E6
- 63907-0704; FLIR E6 (incl. Wi-Fi)
- 63903-0303; FLIR E8
- 63908-0805; FLIR E8 (incl. Wi-Fi)
- 72001-0101; FLIR C2
- 72002-0202; FLIR C2 Educational Kit
- 72003-0303; FLIR C3 (incl. Wi-Fi)
- 72003-0404; FLIR C3 (incl. Wi-Fi) Educational Kit

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General description	
The FLIR Atlas SDK for MATLAB is a software development kit that enables developers to create applications. Supported by help files and sample code, developers can add functionality or collaborate with other FLIR products to get the result they want in their application.	
Key features:	
<ul style="list-style-type: none"> • Supports communication and streaming using FireWire, Gigabit, RTSP, and USB interfaces. • Gives the user full control of the camera. • Supports recording of images using FireWire, Gigabit, RTSP, and USB interfaces. • Converts 16-bit signal pixels into temperature data, for maximum user flexibility. • Allows 16-bit temperature linear, histogram, and signal outputs. 	
Release notes	
Version	3.1
Shipping information	
Packaging, type	Cardboard box
List of contents	Download card with printed license key
Packaging, weight	0.056 kg (0.123 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558011133
UPC-12	845188012021
Country of origin	Sweden
System requirements	
Operating system	MATLAB 2015 (32- and 64-bit) and one of the following operating systems: <ul style="list-style-type: none"> • Windows 7 (32- and 64-bit) • Windows 8 (32- and 64-bit) • Windows 10 (32- and 64-bit)

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)

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Website

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- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 73309-0102; FLIR A35 f=9 mm with SC kit
- 83225-0101; FLIR A35 FOV 13 (60 Hz, ver. 2017)
- 83213-0102; FLIR A35 FOV 25 (60 Hz, ver. 2017)
- 83207-0102; FLIR A35 FOV 45 (60 Hz, ver. 2017)
- 83250-0101; FLIR A35 FOV 6.5 (60 Hz, ver. 2017)
- 83209-0102; FLIR A35 FOV 69 (30 Hz, ver. 2017)
- 73413-0102; FLIR A65 f=13 mm with SC kit (30 Hz)
- 73513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 75050-0101; FLIR A65 FOV 12.4 (30 Hz, ver. 2016)
- 75025-0101; FLIR A65 FOV 25 (30 Hz, ver. 2016)
- 75013-0101; FLIR A65 FOV 45 (30 Hz, ver. 2016)
- 75010-0101; FLIR A65 FOV 6.2 (30 Hz, ver. 2016)
- 75007-0101; FLIR A65 FOV 90 (30 Hz, ver. 2016)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°

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Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 65702-0102; FLIR GF343 24° Fixed lens
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 71502-0101; FLIR G300 a 14.5° fixed lens
- 71502-0102; FLIR G300 a 24° fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 63901-0101; FLIR E4
- 63906-0604; FLIR E4 (incl. Wi-Fi)
- 63905-0501; FLIR E5
- 63909-0904; FLIR E5 (incl. Wi-Fi)
- 63902-0202; FLIR E6
- 63907-0704; FLIR E6 (incl. Wi-Fi)
- 63903-0303; FLIR E8
- 63908-0805; FLIR E8 (incl. Wi-Fi)
- 72001-0101; FLIR C2
- 72002-0202; FLIR C2 Educational Kit
- 72003-0303; FLIR C3 (incl. Wi-Fi)
- 72003-0404; FLIR C3 (incl. Wi-Fi) Educational Kit

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Website

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General description	
ThermoVision™ System Developers Kit	
Key features:	
<ul style="list-style-type: none"> • Supports communication and broadcasting via FireWire™, Ethernet, and USB interfaces. • Gives the user full control of the camera. • Allows the user to set alarm conditions and measurement functions in the camera • Allows the user to define I/O functionality (FLIR A series). • Based on ActiveX technology. • Supports acquisition of images through FireWire™, Ethernet, and USB interfaces. • Reads from and writes to file in FLIR Systems' proprietary file format and writes to files in FLIR Systems' open floating point format (*.fpf). • Converts 16-bit absolute pixels into temperature pixels and several intermediate types of pixels formats, for maximum user flexibility. Applies to all camera models with temperature measurement capabilities. • Allows 16-bit temperature linear outputs from FLIR A series cameras. • Includes method that allows using individual emissivity value correction on any single pixel or condensed measuring value – e.g. average, minimum etc. • Supports conditional recording to file through FireWire™, Ethernet, and USB interfaces. 	
Users with licenses for the previous version can download a free upgrade via the following link: http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=62	

Release notes	
Version	ThermoVision 2.6 SP2
New features	<ul style="list-style-type: none"> • --- News in SP2: • Support for FLIR GF3XX series • Support for windowing in FLIR A615 and FLIR SC6x5 • Support for windowing in FLIR SC6x0 • Various bug fixes

Shipping information	
Packaging, type	Cardboard box
Packaging, weight	0.132 kg (0.3 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005293
UPC-12	845188005504
Country of origin	Sweden

Compatible with the following products:

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310



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Website

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Customer support

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- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

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General description	
<p>The ThermoVision LabVIEW Toolkit is a set of VIs (virtual instruments) for cameras that support alarms, measurement functions, and I/O functionality.</p> <p>Through LabVIEW, you can use these VIs as sub-VIs to manage communications with a FLIR IR camera in digital mode.</p> <p>You can also generate true temperature images from images acquired through LabVIEW, and can use the LabVIEW IR Measurement and Display tools to analyze the temperatures of imaged objects.</p>	
Key features:	
<ul style="list-style-type: none"> • Set up communications between LabVIEW VI and a FLIR IR camera • Capture and collect images via FireWire or Ethernet interfaces • Adjust the camera configuration parameters and focus as you view a live image • Control the camera calibration • Send any other camera command to the camera • Generate a true temperature image from a 16-bit image acquired using the camera's • FireWire or Ethernet interfaces • Close communications to the IR camera 	
<p>Users with licenses for the previous version can download a free upgrade via the following link: http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=63</p>	
Note: Only supports National Instrument 32-bit Labview	

Release notes	
Version	3.3
New features	<ul style="list-style-type: none"> • Windows 7 32- and 64-bit support • Support for FLIR A615 and FLIR SC6X5 (including windowing) • Support for windowing in FLIR SC660 • Various bug fixes • New example VIs

Shipping information	
Packaging, type	Cardboard box
Packaging, weight	0.133 kg (0.3 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005187
UPC-12	845188005399
Country of origin	Sweden

Compatible with the following products:

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)

P/N: T198566

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

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Accessories for FLIR A3xx ex series

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P/N: T129252

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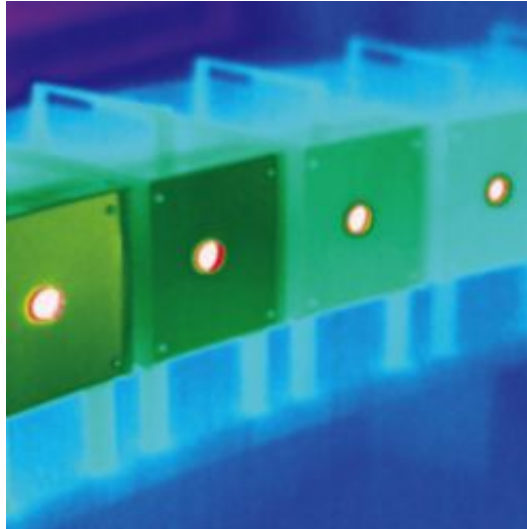
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Website

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Customer support

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General description	
For high temperature applications the camera can be calibrated for high temperature ranges.	
Measurement	
Temperature range	<ul style="list-style-type: none"> • -20 to +120°C (-4 to +248°F) • 0 to +700°C (+32 to +1292°F)

Compatible with the following products:

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 71001-1103; FLIR A310 ex 25°
- 71001-1104; FLIR A310 ex 45°
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°

P/N: T129253

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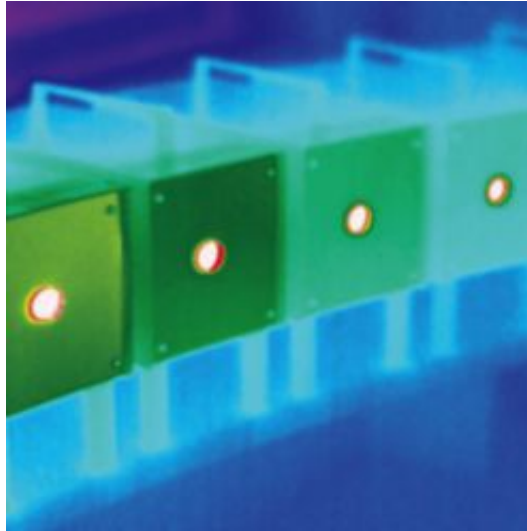
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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

For high temperature applications the camera can be calibrated for high temperature ranges.

Measurement

Temperature range	<ul style="list-style-type: none"> • -20 to +120°C (-4 to +248°F) • -20 to +500°C (-4 to +932°F)
-------------------	--

Compatible with the following products:

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 71001-1103; FLIR A310 ex 25°
- 71001-1104; FLIR A310 ex 45°
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°

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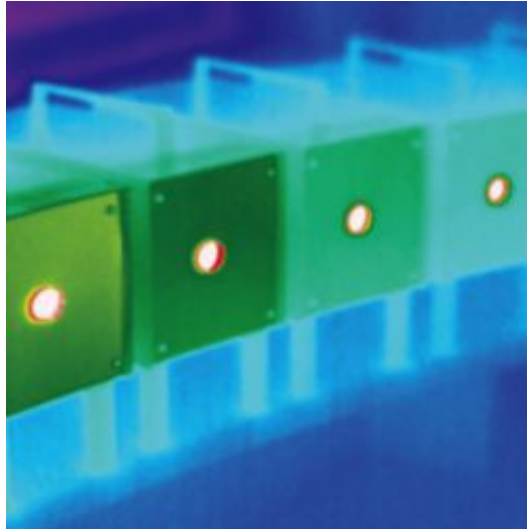
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Website

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Customer support

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General description

For high temperature applications the camera can be calibrated for high temperature ranges.

Measurement

Temperature range	<ul style="list-style-type: none"> • -20 to +120°C (-4 to +248°F) • 0 to +500°C (+32 to +932°F) • +300 to +2000°C (+572 to +3632°F)
-------------------	--

Compatible with the following products:

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 71001-1103; FLIR A310 ex 25°
- 71001-1104; FLIR A310 ex 45°
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°

P/N: T130151

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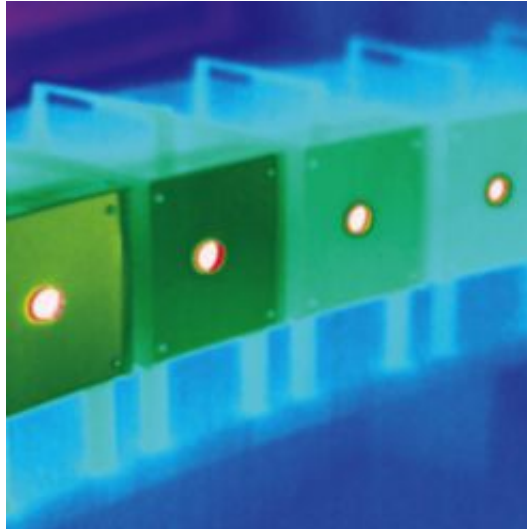
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General description	
For high temperature applications the camera can be calibrated for high temperature ranges.	
Measurement	
Temperature range	<ul style="list-style-type: none"> • -20 to +120°C (-4 to +248°F) • 0 to +700°C (+32 to +1292°F) • +300 to +2000°C (+572 to +3632°F)

Compatible with the following products:

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 71001-1103; FLIR A310 ex 25°
- 71001-1104; FLIR A310 ex 45°
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°

P/N: T911263ACC

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Website

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Customer support

<http://support.flir.com>



General description

Wall mount kit for FLIR A310ex.

Power system

Physical data

Weight	2.57 kg (5.66 lb.)
Size (L × W × H)	Plate: 170 × 140 mm (6.7 × 5.5 in.); length: 390 mm (15.3 in.)

Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> Pole mount adapter for wall mount kit
Packaging, weight	
Packaging, size	
EAN-13	7332558008775
UPC-12	845188009298
Country of origin	Sweden

Compatible with the following products:

- 71001-1103; FLIR A310 ex 25°
- 71001-1104; FLIR A310 ex 45°
- 65502-0101; FLIR G300 pt 14.5° NTSC
- 65501-0101; FLIR G300 pt 14.5° PAL
- 65502-0102; FLIR G300 pt 24° NTSC
- 65501-0102; FLIR G300 pt 24° PAL

P/N: T911288ACC

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Website

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Customer support

<http://support.flir.com>



General description	
Pole mount adapter for wall mount kit (P/N: T911263ACC)	
Power system	
Physical data	
Weight	3.33 kg (7.33 lb.), including screws
Size (L x W x H)	195 x 180 x 110 mm (7.7 x 7.1 x 4.3 in.) (size at minimum clearance between brackets)
Shipping information	
Packaging, type	Cardboard box
List of contents	• Pole mount adapter for wall mount kit
Packaging, weight	3.6 kg (7.9 lb.)
Packaging, size	303 x 206 x 128 mm (11.9 x 8.1 x 5.0 in.)
EAN-13	7332558010259
UPC-12	845188010843
Country of origin	Sweden

Compatible with the following products:

- 71001-1103; FLIR A310 ex 25°
- 71001-1104; FLIR A310 ex 45°
- 65502-0101; FLIR G300 pt 14.5° NTSC
- 65501-0101; FLIR G300 pt 14.5° PAL
- 65502-0102; FLIR G300 pt 24° NTSC
- 65501-0102; FLIR G300 pt 24° PAL

P/N: T130090

Revision

39007

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Website

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Customer support

<http://support.flir.com>



Part number	MT-29525
Model	MIO-A310-1
Compatible FLIR camera models	A310, A310F, A310ex
General description	The MoviTHERM MIO series intelligent I/O solutions are designed to turn FLIR cameras instantly into a complete remote monitoring system. Easy to set up, easy to configure. The quick and easy way to your thermal imaging solution.
Key features	<ul style="list-style-type: none"> Compatible with FLIR A310 cameras Monitor one camera Configure alarms via the built-in web server Digital outputs (24 V DC) 4-20 mA outputs Ethernet connectivity
Typical applications	<ul style="list-style-type: none"> Critical vessel monitoring Condition monitoring Process monitoring Early fire detection
Maximum cameras supported	1
Ethernet connection	100Base-T
Communication protocol	Modbus TCP/IP
4-20 mA transmitter channels	2 channels, loop powered, isolated
Digital output channels	2
Digital output current	0.5 A per channel, 1.5 A all channels
Digital output voltage	10–30 V DC
Power supply voltage	24 V DC
Maximum power consumption	3 W
Dimensions (L × W × H)	145 mm × 90 mm × 40 mm (5.7 in. × 3.6 in. × 1.6 in.)
Weight	0.23 kg (0.5 lb.)
Enclosure material	ABS

Shipping information	
Packaging type	Cardboard box
List of contents	MoviTHERM MIO-A310-1 unit (DIN rail mountable), manual on USB drive
Packaging weight	0.3 kg (0.66 lb.)
Packaging size (L × W × H)	181 mm × 113 mm × 50 mm (7.13 in. × 4.4 in. × 1.99 in.)
Country of origin	USA

Compatible with the following products:



MIO-A310-1

P/N: T130090

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 71001-1103; FLIR A310 ex 25°
- 71001-1104; FLIR A310 ex 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°

P/N: T130091

Revision

39005

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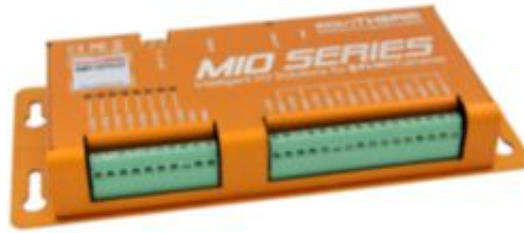
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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Part number	MT-29625
Model	MIO-A310-7
Compatible FLIR camera model	A310, A310F, A310ex
General description	The MoviTHERM MIO series intelligent I/O solutions are designed to turn FLIR cameras instantly into a complete remote monitoring system. Easy to set up, easy to configure. The quick and easy way to your thermal imaging solution.
Key features	<ul style="list-style-type: none"> • Compatible with FLIR A310 cameras • Monitor up to seven cameras • Configure alarms via the built-in web server • Digital outputs (24 V DC) • 4-20 mA outputs • Ethernet connectivity
Typical applications	<ul style="list-style-type: none"> • Critical vessel monitoring • Condition monitoring • Process monitoring • Early fire detection
Maximum cameras supported	7
Ethernet connection	100Base-T
Communication protocol	Modbus TCP/IP
4-20 mA transmitter channels	8 channels, loop powered, isolated
Digital output channels	8
Digital output current	0.5 A per channel, 1.5 A all channels
Digital output voltage	10–30 V DC
Power supply voltage	24 V DC
Maximum power consumption	7 W
Dimensions (L × W × H)	223 mm × 99 mm × 31 mm (8.8 in. × 3.9 in. × 1.2 in.)
Weight	0.32 kg (0.7 lb.)
Enclosure material	Anodized aluminum

Shipping information	
Packaging type	Cardboard box
List of contents	MoviTHERM MIO-A310-7 unit, DIN rail adapter clip, manual on USB drive
Packaging weight	0.38 kg (0.84 lb.)
Packaging size (L × W × H)	226 mm × 105 mm × 35 mm (8.88 in. × 4.13 in. × 1.38 in.)
Country of origin	USA

Compatible with the following products:

- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 71001-1103; FLIR A310 ex 25°
- 71001-1104; FLIR A310 ex 45°
- 61201-1102; FLIR A310f 15°



MIO-A310-7

P/N: T130091

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Website

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Customer support

<http://support.flir.com>

- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°

P/N: T130169

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Website

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Customer support

<http://support.flir.com>



Model	Thermovision CM
Compatible FLIR camera models	FLIR AX8, FLIR A310
General description	The ThermoVision CM consists of a robust, rugged, and reliable computer with all required software pre-installed and pre-licensed
Typical applications	<ul style="list-style-type: none"> Critical vessel monitoring Condition monitoring Process monitoring

Included software	
Operating system	Windows 7 embedded
Video management system (VMS)	Ethisis VMS 8.0
Maximum cameras supported	4
SCADA/PSIM	WideQuick 7.2
Maximum number of tags	256

System specification	
CPU	Intel Quad-Core J1900
System memory	8 GB
Solid state drive	32 GB for OS, Ethisis VMS, and WideQuick
Video disk storage	2 TB
LAN	2 × GbE RJ45
USB	2 × USB 3.0
Display output	1 × HDMI, 1 × VGA
Audio	1 × line out

Power system	
Power requirements	12–24 V DC, 40 W
Power unit	External PSU, 100–240 V AC, 50–60 Hz, 40 W

Environmental data	
Operation temperature	5–40°C (41–104°F)
Operation humidity	10–90%

Physical data	
Form factor	Desktop model
Dimensions	216 mm × 260 mm × 52 mm (8.50 in. × 10.24 in. × 2.05 in.)
Weight	2.70 kg (5.95 lb.)

Shipping information	
Packaging type	Cardboard box



ThermoVision CM, max. 4 cameras

P/N: T130169

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Shipping information	
List of contents	T130169 unit, quick start guide, power supply, Schuko power cable, network cable
Packaging weight	4.00 kg (8.82 lb.)
Packaging size	360 mm × 295 mm × 133 mm (14.17 in. × 11.61 in. × 5.23 in.)
Country of origin	Sweden

Compatible with the following products:

- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 71001-1103; FLIR A310 ex 25°
- 71001-1104; FLIR A310 ex 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 71201-0101; FLIR AX8 9 Hz

P/N: T130170

Revision

42932

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Model	FLIR ThermoVision CM
Compatible FLIR camera models	FLIR AX8, FLIR A310
General description	The ThermoVision CM consists of a robust, rugged, and reliable computer with all required software pre-installed and pre-licensed
Typical applications	<ul style="list-style-type: none"> Critical vessel monitoring Condition monitoring Process monitoring

Included software	
Operating system	Windows 7 embedded
Video management system (VMS)	Ethiris VMS 8.0
Maximum cameras supported	9
SCADA/PSIM	WideQuick 7.2
Maximum number of tags	512

System specification	
CPU	Intel Quad-Core J1900
System memory	8 GB
Solid state drive	32 GB for OS, Ethiris VMS, and WideQuick
Video disk storage	2 TB
LAN	2 × GbE RJ45
USB	2 × USB 3.0
Display output	1 × HDMI, 1 × VGA
Audio	1 × line out

Power system	
Power requirements	12–24 V DC, 40 W
Power unit	External PSU, 100–240 V AC, 50–60 Hz, 40 W

Environmental data	
Operation temperature	5–40°C (41–104°F)
Operation humidity	10–90%

Physical data	
Form factor	Desktop model
Dimensions	216 mm × 260 mm × 52 mm (8.50 in. × 10.24 in. × 2.05 in.)
Weight	2.70 kg (5.95 lb.)

Shipping information	
Packaging type	Cardboard box



ThermoVision CM, max. 9 cameras

P/N: T130170

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Shipping information	
List of contents	T130170 unit, quick start guide, power supply, Schuko power cable, network cable
Packaging weight	4.00 kg (8.82 lb.)
Packaging size	360 mm × 295 mm × 133 mm (14.17 in. × 11.61 in. × 5.23 in.)
Country of origin	Sweden

Compatible with the following products:

- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 71001-1103; FLIR A310 ex 25°
- 71001-1104; FLIR A310 ex 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 71201-0101; FLIR AX8 9 Hz

Accessories for FLIR A3xx f series

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P/N: T129252

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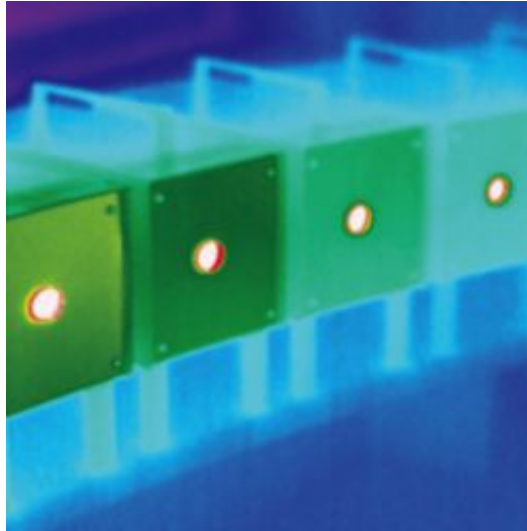
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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

For high temperature applications the camera can be calibrated for high temperature ranges.

Measurement

Temperature range

- -20 to +120°C (-4 to +248°F)
- 0 to +700°C (+32 to +1292°F)

Compatible with the following products:

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 71001-1103; FLIR A310 ex 25°
- 71001-1104; FLIR A310 ex 45°
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°

P/N: T129253

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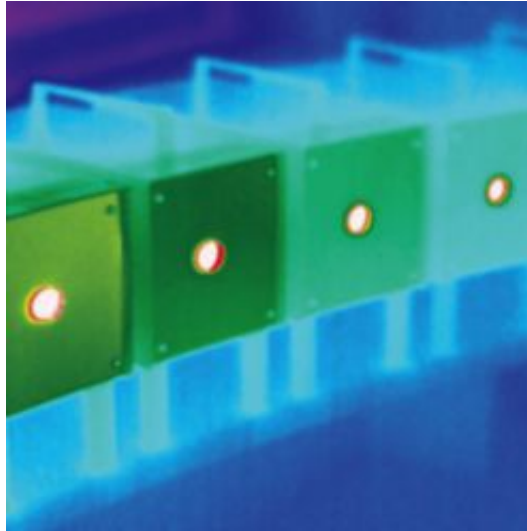
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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

For high temperature applications the camera can be calibrated for high temperature ranges.

Measurement

Temperature range

- -20 to +120°C (-4 to +248°F)
- -20 to +500°C (-4 to +932°F)

Compatible with the following products:

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 71001-1103; FLIR A310 ex 25°
- 71001-1104; FLIR A310 ex 45°
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°

P/N: T129254

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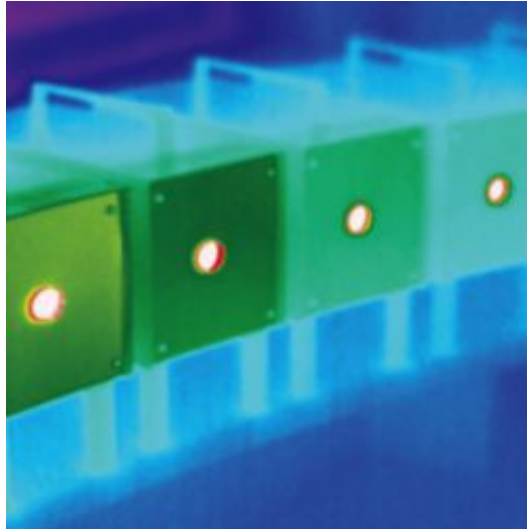
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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

For high temperature applications the camera can be calibrated for high temperature ranges.

Measurement

Temperature range

- -20 to +120°C (-4 to +248°F)
- 0 to +500°C (+32 to +932°F)
- +300 to +2000°C (+572 to +3632°F)

Compatible with the following products:

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 71001-1103; FLIR A310 ex 25°
- 71001-1104; FLIR A310 ex 45°
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°

P/N: T130151

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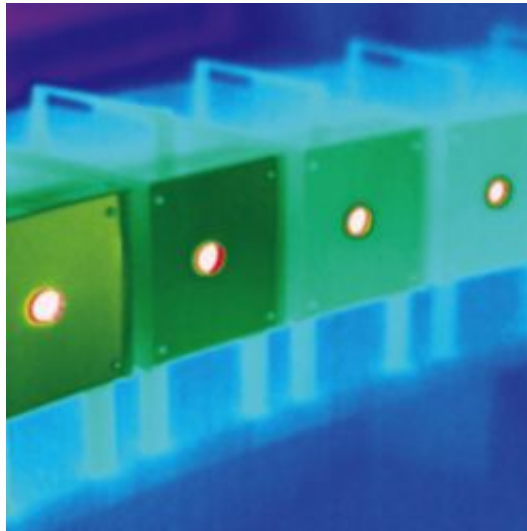
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Website

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Customer support

<http://support.flir.com>



General description	
For high temperature applications the camera can be calibrated for high temperature ranges.	
Measurement	
Temperature range	<ul style="list-style-type: none"> • -20 to +120°C (-4 to +248°F) • 0 to +700°C (+32 to +1292°F) • +300 to +2000°C (+572 to +3632°F)

Compatible with the following products:

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 71001-1103; FLIR A310 ex 25°
- 71001-1104; FLIR A310 ex 45°
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°

P/N: T130152

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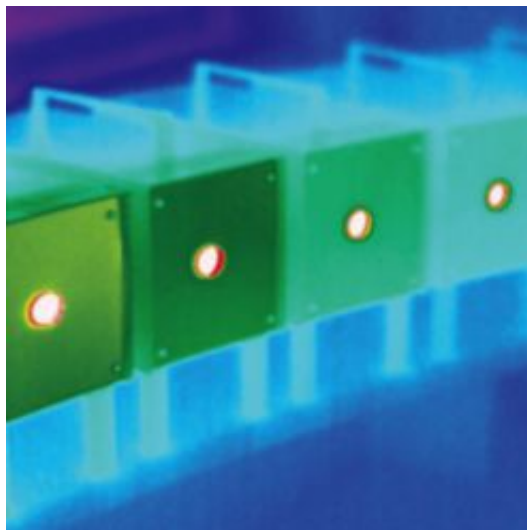
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Website

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Customer support

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General description	
For high temperature applications the camera can be calibrated for high temperature ranges.	
Measurement	
Temperature range	+200 to +1200°C (+392 to +2192°F)

Compatible with the following products:

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°

P/N: T951004ACC

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Website

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Customer support

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General description

This cable is used to connect the infrared camera to Ethernet.

Physical data

Weight	80 g (2.8 oz.)
Cable length	2.0 m (6.6 ft.)
Connector	RJ-45 to RJ-45
Cable type	CAT-6

Shipping information

Packaging, type	Cardboard box
Packaging, weight	130 g (4.6 oz.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558006320
UPC-12	845188006679
Country of origin	Sweden

Compatible with the following products:

- 73309-0102; FLIR A35 f=9 mm with SC kit
- 83225-0101; FLIR A35 FOV 13 (60 Hz, ver. 2017)
- 83213-0102; FLIR A35 FOV 25 (60 Hz, ver. 2017)
- 83207-0102; FLIR A35 FOV 45 (60 Hz, ver. 2017)
- 83250-0101; FLIR A35 FOV 6.5 (60 Hz, ver. 2017)
- 83209-0102; FLIR A35 FOV 69 (30 Hz, ver. 2017)
- 73413-0102; FLIR A65 f=13 mm with SC kit (30 Hz)
- 73513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 75050-0101; FLIR A65 FOV 12.4 (30 Hz, ver. 2016)
- 75025-0101; FLIR A65 FOV 25 (30 Hz, ver. 2016)
- 75013-0101; FLIR A65 FOV 45 (30 Hz, ver. 2016)
- 75010-0101; FLIR A65 FOV 6.2 (30 Hz, ver. 2016)
- 75007-0101; FLIR A65 FOV 90 (30 Hz, ver. 2016)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°



Ethernet cable CAT-6, 2m/6.6 ft.

P/N: T951004ACC

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

P/N: 1910586ACC

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Website

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Customer support

<http://support.flir.com>



General description	
This cable is used, when a separate power supply is used (not the one supplied with the camera)	

Physical data	
Weight	75 g (2.6 oz.)
Cable length	2.0 m (6.6 ft.)
Connector	Pigtailed
Color	Black

Shipping information	
Packaging, type	Cardboard box
Packaging, weight	163 g (5.7 oz.)
Packaging, size	170 × 64 × 75 mm (6.69 × 2.52 × 2.95 in.)
EAN-13	7332558006375
UPC-12	845188006723
Country of origin	Sweden

Compatible with the following products:

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

P/N: 908929

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
This cable is used to transfer video signals from the infrared camera to an external monitor, or to a computer featuring an internal video card.	

Physical data	
Weight	163 g (5.7 oz.)
Cable length	3.0 m (9.8 ft.)
Connector	BNC

Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009444
UPC-12	845188010027
Country of origin	Sweden

Compatible with the following products:

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°

P/N: T129785ACC

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

Dust control ring to be mounted on the front window of FLIR A310f cameras. The dust control ring is then connected to pressurized air and will keep the front window dust-free.

Physical data

Size	<ul style="list-style-type: none"> Thickness: 25 mm (1 in.) Diameter: 125 mm (5 in.)
Color	Black anodized

Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> Dust control ring Screws Instruction
Packaging, weight	0.521 kg (1.15 lb.)
Packaging, size	145 × 140 × 55 mm (5.7 × 5.5 × 2.2 in.)
EAN-13	7332558012611
UPC-12	845188013769
Country of origin	Sweden

Compatible with the following products:

- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°

P/N: T130090

Revision

39007

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Part number	MT-29525
Model	MIO-A310-1
Compatible FLIR camera models	A310, A310F, A310ex
General description	The MoviTHERM MIO series intelligent I/O solutions are designed to turn FLIR cameras instantly into a complete remote monitoring system. Easy to set up, easy to configure. The quick and easy way to your thermal imaging solution.
Key features	<ul style="list-style-type: none"> Compatible with FLIR A310 cameras Monitor one camera Configure alarms via the built-in web server Digital outputs (24 V DC) 4-20 mA outputs Ethernet connectivity
Typical applications	<ul style="list-style-type: none"> Critical vessel monitoring Condition monitoring Process monitoring Early fire detection
Maximum cameras supported	1
Ethernet connection	100Base-T
Communication protocol	Modbus TCP/IP
4-20 mA transmitter channels	2 channels, loop powered, isolated
Digital output channels	2
Digital output current	0.5 A per channel, 1.5 A all channels
Digital output voltage	10–30 V DC
Power supply voltage	24 V DC
Maximum power consumption	3 W
Dimensions (L × W × H)	145 mm × 90 mm × 40 mm (5.7 in. × 3.6 in. × 1.6 in.)
Weight	0.23 kg (0.5 lb.)
Enclosure material	ABS

Shipping information	
Packaging type	Cardboard box
List of contents	MoviTHERM MIO-A310-1 unit (DIN rail mountable), manual on USB drive
Packaging weight	0.3 kg (0.66 lb.)
Packaging size (L × W × H)	181 mm × 113 mm × 50 mm (7.13 in. × 4.4 in. × 1.99 in.)
Country of origin	USA

Compatible with the following products:



MIO-A310-1

P/N: T130090

Revision

39007

Last modified

2016-12-14 10:11 UTC+1

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Website

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Customer support

<http://support.flir.com>

- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 71001-1103; FLIR A310 ex 25°
- 71001-1104; FLIR A310 ex 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°

P/N: T130091

Revision

39005

Last modified

2016-12-14 10:07 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Part number	MT-29625
Model	MIO-A310-7
Compatible FLIR camera model	A310, A310F, A310ex
General description	The MoviTHERM MIO series intelligent I/O solutions are designed to turn FLIR cameras instantly into a complete remote monitoring system. Easy to set up, easy to configure. The quick and easy way to your thermal imaging solution.
Key features	<ul style="list-style-type: none"> • Compatible with FLIR A310 cameras • Monitor up to seven cameras • Configure alarms via the built-in web server • Digital outputs (24 V DC) • 4-20 mA outputs • Ethernet connectivity
Typical applications	<ul style="list-style-type: none"> • Critical vessel monitoring • Condition monitoring • Process monitoring • Early fire detection
Maximum cameras supported	7
Ethernet connection	100Base-T
Communication protocol	Modbus TCP/IP
4-20 mA transmitter channels	8 channels, loop powered, isolated
Digital output channels	8
Digital output current	0.5 A per channel, 1.5 A all channels
Digital output voltage	10–30 V DC
Power supply voltage	24 V DC
Maximum power consumption	7 W
Dimensions (L × W × H)	223 mm × 99 mm × 31 mm (8.8 in. × 3.9 in. × 1.2 in.)
Weight	0.32 kg (0.7 lb.)
Enclosure material	Anodized aluminum

Shipping information	
Packaging type	Cardboard box
List of contents	MoviTHERM MIO-A310-7 unit, DIN rail adapter clip, manual on USB drive
Packaging weight	0.38 kg (0.84 lb.)
Packaging size (L × W × H)	226 mm × 105 mm × 35 mm (8.88 in. × 4.13 in. × 1.38 in.)
Country of origin	USA

Compatible with the following products:

- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 71001-1103; FLIR A310 ex 25°
- 71001-1104; FLIR A310 ex 45°
- 61201-1102; FLIR A310f 15°



MIO-A310-7

P/N: T130091

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°

P/N: T130169

Revision

42932

Last modified

2017-05-30 15:32 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Model	Thermovision CM
Compatible FLIR camera models	FLIR AX8, FLIR A310
General description	The ThermoVision CM consists of a robust, rugged, and reliable computer with all required software pre-installed and pre-licensed
Typical applications	<ul style="list-style-type: none"> Critical vessel monitoring Condition monitoring Process monitoring

Included software	
Operating system	Windows 7 embedded
Video management system (VMS)	Ethiris VMS 8.0
Maximum cameras supported	4
SCADA/PSIM	WideQuick 7.2
Maximum number of tags	256

System specification	
CPU	Intel Quad-Core J1900
System memory	8 GB
Solid state drive	32 GB for OS, Ethiris VMS, and WideQuick
Video disk storage	2 TB
LAN	2 × GbE RJ45
USB	2 × USB 3.0
Display output	1 × HDMI, 1 × VGA
Audio	1 × line out

Power system	
Power requirements	12–24 V DC, 40 W
Power unit	External PSU, 100–240 V AC, 50–60 Hz, 40 W

Environmental data	
Operation temperature	5–40°C (41–104°F)
Operation humidity	10–90%

Physical data	
Form factor	Desktop model
Dimensions	216 mm × 260 mm × 52 mm (8.50 in. × 10.24 in. × 2.05 in.)
Weight	2.70 kg (5.95 lb.)

Shipping information	
Packaging type	Cardboard box



ThermoVision CM, max. 4 cameras

P/N: T130169

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Shipping information	
List of contents	T130169 unit, quick start guide, power supply, Schuko power cable, network cable
Packaging weight	4.00 kg (8.82 lb.)
Packaging size	360 mm × 295 mm × 133 mm (14.17 in. × 11.61 in. × 5.23 in.)
Country of origin	Sweden

Compatible with the following products:

- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 71001-1103; FLIR A310 ex 25°
- 71001-1104; FLIR A310 ex 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 71201-0101; FLIR AX8 9 Hz

P/N: T130170

Revision

42932

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2017-05-30 15:32 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Model	FLIR ThermoVision CM
Compatible FLIR camera models	FLIR AX8, FLIR A310
General description	The ThermoVision CM consists of a robust, rugged, and reliable computer with all required software pre-installed and pre-licensed
Typical applications	<ul style="list-style-type: none"> Critical vessel monitoring Condition monitoring Process monitoring

Included software	
Operating system	Windows 7 embedded
Video management system (VMS)	Ethisis VMS 8.0
Maximum cameras supported	9
SCADA/PSIM	WideQuick 7.2
Maximum number of tags	512

System specification	
CPU	Intel Quad-Core J1900
System memory	8 GB
Solid state drive	32 GB for OS, Ethisis VMS, and WideQuick
Video disk storage	2 TB
LAN	2 × GbE RJ45
USB	2 × USB 3.0
Display output	1 × HDMI, 1 × VGA
Audio	1 × line out

Power system	
Power requirements	12–24 V DC, 40 W
Power unit	External PSU, 100–240 V AC, 50–60 Hz, 40 W

Environmental data	
Operation temperature	5–40°C (41–104°F)
Operation humidity	10–90%

Physical data	
Form factor	Desktop model
Dimensions	216 mm × 260 mm × 52 mm (8.50 in. × 10.24 in. × 2.05 in.)
Weight	2.70 kg (5.95 lb.)

Shipping information	
Packaging type	Cardboard box



ThermoVision CM, max. 9 cameras

P/N: T130170

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Shipping information	
List of contents	T130170 unit, quick start guide, power supply, Schuko power cable, network cable
Packaging weight	4.00 kg (8.82 lb.)
Packaging size	360 mm × 295 mm × 133 mm (14.17 in. × 11.61 in. × 5.23 in.)
Country of origin	Sweden

Compatible with the following products:

- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 71001-1103; FLIR A310 ex 25°
- 71001-1104; FLIR A310 ex 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 71201-0101; FLIR AX8 9 Hz

P/N: T198584

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Website

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Customer support

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General description

FLIR Tools is a software suite specifically designed to provide an easy way to update your camera and create inspection reports.

Key features:

- Report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR).
- Manual IR/Visual Image Grouping
- Import images from your camera to your computer.
- Apply filters when searching for images.
- Search all text in images and text annotations.
- Store the five latest search criteria's.
- Lay out, move, and resize measurement tools on any infrared image.
- Create PDF imagesheets of any images of your choice.
- Add headers, footers, and logos to imagesheets.
- Create PDF reports for images of your choice.
- Add headers, footers, and logos to reports.
- Report editor (report page preview and snap to grid).
- Sort function (by date, groups sorted by path, and groups sorted by date).
- Browse and purchase infrared cameras, software, and accessories in the webshop.
- Software localized to 21 languages.
- Support for MSX (Multi-Spectral Dynamic Imaging) Images
- Support for Sketch Images on both IR and Visual with toggling ON/OFF feature.
- Support for Same FOV (Field of View Match)
- Display of Compass Information in Edit and in Report.
- Display of GPS Information in Edit and in Report.
- Camera update (applies to FLIR Ex, Kxx, Exx and T6xx series only).

Download

This software is a freeware. To download, click the following link:

<http://support.flir.com/tools>

Release notes

Version	5.9
New features in version 5.9	<ul style="list-style-type: none"> • Additional trigger options for FLIR K53, K55, and K65 cameras • Added user account registration and login • New Pleora version support • Various bug fixes
New features in version 5.7	<ul style="list-style-type: none"> • Five modes supported for K65, K55, and K53 cameras. • Support for Kx3 cameras. • Auto gain mode now available for K2 cameras. • Various bug fixes.
New features in version 5.5	<ul style="list-style-type: none"> • Added support for Microsoft Office 2016 (32-bit) for the FLIR Word Reporting module. • Various bug fixes.

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Release notes	
New features in version 5.3	<ul style="list-style-type: none"> Support for the FLIR T1020 and T1040 cameras for import, edit, report creation, and camera update. Support for the FLIR K2 camera for configuration, video streaming, and camera update. Delta (difference) readings are now on one line instead of two.
New features in version 5.2.1	<ul style="list-style-type: none"> Option added to change color distribution mode (histogram equalization, signal linear, temperature linear). Option added to extract photos at their full field of view. Various bug fixes.
New features in version 5.2	<ul style="list-style-type: none"> Support for auto-adjusting a region. Support for zoom. Various bug fixes.
New features in version 5.1	<ul style="list-style-type: none"> Improved import performance. Added support for video recording settings for FLIR Kxx series. Added support for importing video files from FLIR Kxx series. Added support for FLIR C2 camera. Various bug fixes.
New features in version 5.0	<ul style="list-style-type: none"> Local object parameters for measurement tools. Save a report in-process with the ability to edit at a later time. Pull-down menus for text annotations. Variable playback speed for recordings. Show or hide min./max./avg. temperature, and hot/cold markers, for areas and lines. Smoother display for low-resolution images. UltraMax image enhancement. Dropping support for Windows XP. Various bug fixes.
New features in version 4.1	<ul style="list-style-type: none"> Previous/next in Edit mode. Clone in the Library. Extract visual photo from a multispectral image. Import *.mp4, *.seq, and *.csq files from the camera. Playback/edit *.seq and *.csq files. Scale enhancement for the FLIR GF3xx series. Auto resize of thumbnails during importing for the FLIR T6xx series. Grouping/ungrouping now added. Various bug fixes.
New features in version 4.0	<ul style="list-style-type: none"> Support for the new FLIR Ex and Exx series cameras. Interactive quick start guide when connecting a FLIR camera. Improved library view. Support for multispectral images. Support for auto-oriented images. Various bug fixes.
New features in version 3.1	<ul style="list-style-type: none"> Support for FLIR K series cameras. Interactive quick start guide when connecting a FLIR K series camera. Live image streaming from FLIR K series cameras. PC-side configuration of FLIR K series cameras. New report templates for DC images only added. Various bug fixes.
New features in version 3.0	<ul style="list-style-type: none"> Add folder to library. Support for isotherms and color alarms Image description for both IR and DC. Export functionality (*.avi, *.csv). Microsoft Windows 8 (32- and 64-bit) New web installer Various bug fixes.



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Website

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Release notes	
New features in version 2.2	<ul style="list-style-type: none"> Camera tab: <ul style="list-style-type: none"> Logging feature in Camera Tab Recording and playback of SEQ files. Various bug fixes.
New features in version 2.1	<ul style="list-style-type: none"> New Text Comment Template Tab: <ul style="list-style-type: none"> Create, Edit and Transfer templates to and from any FLIR Camera. Import and Export of Templates. Support for MSX (Multi-Spectral Dynamic Imaging) Images Support for Sketch Images on both IR and Visual with toggling ON/OFF feature. Support for Same FOV (Field of View Match) Display of Compass Information in Edit and in Report. Display of GPS Information in Edit and in Report. <ul style="list-style-type: none"> Direct Link to Google Maps for GPS Tagged images from Report. Support for 3x5 and 6x5 A-series cameras
New features in version 2.0	<ul style="list-style-type: none"> Camera tab: <ul style="list-style-type: none"> Camera connection with FLIR UVC cameras. Measurement data analysis. Plotting. Snapshot saving with text annotation and plot. Performance improvement for large reports: can now create reports and imagesheets of up to 200 pages. Various bug fixes.
New features in version 1.3	<ul style="list-style-type: none"> Import from ix series cameras. Add and remove a form from a group. Text comments are now saved in the infrared image. The indexing engine can create groups from IR, DC, and text annotations when indexing the paths in the watch folder. Arrow tool in the report toolbar. Reorder pages. Text annotations can now be edited in the report. New report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR). New sample images.
New features in version 1.2 SP1	<ul style="list-style-type: none"> Various bug fixes.
New features in version 1.2	<ul style="list-style-type: none"> Search function: <ul style="list-style-type: none"> Store the five latest search criterias. Search in all texts in images and text annotations. Sort function: <ul style="list-style-type: none"> By date. Groups sorted by by path. Groups sorted by date. Report editor: <ul style="list-style-type: none"> Report page preview. Snap to grid. Various bug fixes.
New features in version 1.1 SP1	<ul style="list-style-type: none"> Extension to the camera update functionality. Various bug fixes
New features in version 1.1	<ul style="list-style-type: none"> Software localized to 21 languages. Camera update. (Exx, T6xx) Option to rotate an infrared image in the infrared editor.

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> Digital download, or CD-ROM
Packaging, weight	0.106 kg (0.23 lb.)



FLIR Tools

P/N: T198584

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>**Shipping information**

Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005279
UPC-12	845188005481
Country of origin	Sweden

System requirements

Operating system	<ul style="list-style-type: none">• Windows 7, 32-bit• Windows 7, 64-bit• Windows 8, 32-bit• Windows 8, 64-bit• Windows 10, 32-bit• Windows 10, 64-bit
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Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 73309-0102; FLIR A35 f=9 mm with SC kit
- 83225-0101; FLIR A35 FOV 13 (60 Hz, ver. 2017)
- 83213-0102; FLIR A35 FOV 25 (60 Hz, ver. 2017)
- 83207-0102; FLIR A35 FOV 45 (60 Hz, ver. 2017)
- 83250-0101; FLIR A35 FOV 6.5 (60 Hz, ver. 2017)
- 83209-0102; FLIR A35 FOV 69 (30 Hz, ver. 2017)
- 73413-0102; FLIR A65 f=13 mm with SC kit (30 Hz)
- 73513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 75050-0101; FLIR A65 FOV 12.4 (30 Hz, ver. 2016)
- 75025-0101; FLIR A65 FOV 25 (30 Hz, ver. 2016)
- 75013-0101; FLIR A65 FOV 45 (30 Hz, ver. 2016)
- 75010-0101; FLIR A65 FOV 6.2 (30 Hz, ver. 2016)
- 75007-0101; FLIR A65 FOV 90 (30 Hz, ver. 2016)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

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- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72001-0101; FLIR C2
- 72002-0202; FLIR C2 Educational Kit
- 72003-0303; FLIR C3 (incl. Wi-Fi)
- 72003-0404; FLIR C3 (incl. Wi-Fi) Educational Kit

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General description

Compared to FLIR Tools, FLIR Tools+ has the following features:

- Radiometric Panorama incl. MSX
- Radiometric IR Video Recording
- Advanced Reporting

FLIR Tools/Tools+ is a software suite specifically designed to provide an easy way to update your camera and create inspection reports.

FLIR Tools+ main features:

- Manual IR/Visual Image Grouping
- Radiometric Panorama incl. MSX
- Radiometric IR Video Recording
- Advanced Reporting for Microsoft Office.
- Report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR).
- Import images from your camera to your computer.
- Apply filters when searching for images.
- Search all text in images and text annotations.
- Store the five latest search criteria's.
- Lay out, move, and resize measurement tools on any infrared image.
- Create PDF imagesheets of any images of your choice.
- Add headers, footers, and logos to imagesheets.
- Create PDF reports for images of your choice.
- Add headers, footers, and logos to reports.
- Report editor (report page preview and snap to grid).
- Sort function (by date, groups sorted by path, and groups sorted by date).
- Browse and purchase infrared cameras, software, and accessories in the webshop.
- Software localized to 21 languages.
- Support for MSX (Multi-Spectral Dynamic Imaging) Images
- Support for Sketch Images on both IR and Visual with toggling ON/OFF feature.
- Support for Same FOV (Field of View Match)
- Display of Compass Information in Edit and in Report.
- Display of GPS Information in Edit and in Report.
- Camera update (applies to FLIR Ex, Kxx, Exx and T6xx series only).

Download

Download a 30-day evaluation version here:

<http://support.flir.com/toolsplus>

Release notes

Version	5.9
New features in version 5.9	<ul style="list-style-type: none"> • Additional trigger options for FLIR K53, K55, and K65 cameras • Added user account registration and login • New Pleora version support • Various bug fixes
New features in version 5.7	<ul style="list-style-type: none"> • Five modes supported for K65, K55, and K53 cameras. • Support for Kx3 cameras. • Auto gain mode now available for K2 cameras. • Various bug fixes.



FLIR Tools+ (download card incl. license key)

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Release notes	
New features in version 5.5	<ul style="list-style-type: none"> Added support for Microsoft Office 2016 (32-bit) for the FLIR Word Reporting module. Various bug fixes.
New features in version 5.3	<ul style="list-style-type: none"> Support for the FLIR T1020 and T1040 cameras for import, edit, report creation, and camera update. Support for the FLIR K2 camera for configuration, video streaming, and camera update. Delta (difference) readings are now on one line instead of two.
New features in version 5.2.1	<ul style="list-style-type: none"> Option added to change color distribution mode (histogram equalization, signal linear, temperature linear). "Rapid Report" shortcuts added to simplify reporting using a drag-and-drop operation. Option added to extract photos at their full field of view. Two new templates for express export added (Photo_Large and Thermalx1 Photox2). Various bug fixes.
New features in version 5.2	<ul style="list-style-type: none"> Support for auto-adjusting a region. Support for zoom. Express Microsoft Word reporting (*.docx). Various bug fixes.
New features in version 5.1	<ul style="list-style-type: none"> Improved import performance. Added support for video recording settings for FLIR Kxx series. Added support for importing video files from FLIR Kxx series. Added support for FLIR C2 camera. Various bug fixes.
New features in version 5.0	<ul style="list-style-type: none"> Local object parameters for measurement tools. Save a report in-process with the ability to edit at a later time. Pull-down menus for text annotations. Variable playback speed for recordings. Show or hide min./max./avg. temperature, and hot/cold markers, for areas and lines. Smoother display for low-resolution images. UltraMax image enhancement. Dropping support for Windows XP. Various bug fixes.
New features in version 4.1	<ul style="list-style-type: none"> Previous/next in Edit mode. Clone in the Library. Extract visual photo from a multispectral image. Import *.mp4, *.seq, and *.csq files from the camera. Playback/edit *.seq and *.csq files. Scale enhancement for the FLIR GF3xx series. Auto resize of thumbnails during importing for the FLIR T6xx series. Grouping/ungrouping now added. Various bug fixes.
New features in version 4.0	<ul style="list-style-type: none"> Support for the new FLIR Ex and Exx series cameras. Interactive quick start guide when connecting a FLIR camera. Improved library view. Support for multispectral images. Support for auto-oriented images. Various bug fixes.
New features in version 3.1	<ul style="list-style-type: none"> Support for FLIR K series cameras. Interactive quick start guide when connecting a FLIR K series camera. Live image streaming from FLIR K series cameras. PC-side configuration of FLIR K series cameras. New report templates for DC images only added. Various bug fixes.



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Release notes	
New features in version 3.0	<ul style="list-style-type: none">• Add folder to library.• Support for isotherms and color alarms• Image description for both IR and DC.• Export functionality (*.avi, *.csv).• Microsoft Windows 8 (32- and 64-bit)• New web installer• Radiometric panorama with MSX images.• Advanced reports.• Manual grouping/ungrouping of images.• Various bug fixes.
New features in version 2.2	<ul style="list-style-type: none">• Camera tab:<ul style="list-style-type: none">• Logging feature in Camera Tab• Recording and playback of SEQ files.• Various bug fixes.

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• FLIR Tools+ (download card incl. license key)
Packaging, weight	0.059 kg (0.13 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	73325585378 4743254001442 (Estonia plant)
UPC-12	845188005580
Country of origin	Sweden

System requirements	
Operating system	<ul style="list-style-type: none">• Windows 7, 32-bit• Windows 7, 64-bit• Windows 8, 32-bit• Windows 8, 64-bit• Windows 10, 32-bit• Windows 10, 64-bit
Software requirements	<ul style="list-style-type: none">• Office 2007 (32-bit)• Office 2010 (32-bit)• Office 2013 (32-bit)• Office 2016 (32-bit)

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)

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- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 73309-0102; FLIR A35 f=9 mm with SC kit
- 83225-0101; FLIR A35 FOV 13 (60 Hz, ver. 2017)
- 83213-0102; FLIR A35 FOV 25 (60 Hz, ver. 2017)
- 83207-0102; FLIR A35 FOV 45 (60 Hz, ver. 2017)
- 83250-0101; FLIR A35 FOV 6.5 (60 Hz, ver. 2017)
- 83209-0102; FLIR A35 FOV 69 (30 Hz, ver. 2017)
- 73413-0102; FLIR A65 f=13 mm with SC kit (30 Hz)
- 73513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 75050-0101; FLIR A65 FOV 12.4 (30 Hz, ver. 2016)
- 75025-0101; FLIR A65 FOV 25 (30 Hz, ver. 2016)
- 75013-0101; FLIR A65 FOV 45 (30 Hz, ver. 2016)
- 75010-0101; FLIR A65 FOV 6.2 (30 Hz, ver. 2016)
- 75007-0101; FLIR A65 FOV 90 (30 Hz, ver. 2016)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°



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- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
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- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 84502-0201; FLIR E53 24°
- 78501-0101; FLIR E75 14°
- 78502-0101; FLIR E75 24°
- 78504-0101; FLIR E75 24° + 14°
- 78506-0101; FLIR E75 24° + 14° & 42°
- 78505-0101; FLIR E75 24° + 42°
- 78503-0101; FLIR E75 42°
- 78507-0101; FLIR E75 42° + 14°
- 78501-0201; FLIR E85 14°
- 78502-0201; FLIR E85 24°
- 78504-0201; FLIR E85 24° + 14°
- 78506-0201; FLIR E85 24° + 14° & 42°
- 78505-0201; FLIR E85 24° + 42°
- 78503-0201; FLIR E85 42°
- 78507-0201; FLIR E85 42° + 14°
- 78501-0301; FLIR E95 14°
- 78502-0301; FLIR E95 24°
- 78504-0301; FLIR E95 24° + 14°
- 78506-0301; FLIR E95 24° + 14° & 42°
- 78505-0301; FLIR E95 24° + 42°
- 78503-0301; FLIR E95 42°
- 78507-0301; FLIR E95 42° + 14°
- 63901-0101; FLIR E4
- 63906-0604; FLIR E4 (incl. Wi-Fi)
- 63905-0501; FLIR E5
- 63909-0904; FLIR E5 (incl. Wi-Fi)
- 63902-0202; FLIR E6
- 63907-0704; FLIR E6 (incl. Wi-Fi)
- 63903-0303; FLIR E8
- 63908-0805; FLIR E8 (incl. Wi-Fi)
- 79301-0101; FLIR T530 14°
- 79302-0101; FLIR T530 24°
- 79304-0101; FLIR T530 24° + 14°
- 79306-0101; FLIR T530 24° + 14° & 42°
- 79305-0101; FLIR T530 24° + 42°
- 79303-0101; FLIR T530 42°
- 79307-0101; FLIR T530 42° + 14°
- 79301-0201; FLIR T540 14°
- 79302-0201; FLIR T540 24°
- 79304-0201; FLIR T540 24° + 14°



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 79306-0201; FLIR T540 24° + 14° & 42°
- 79305-0201; FLIR T540 24° + 42°
- 79303-0201; FLIR T540 42°
- 79307-0201; FLIR T540 42° + 14°
- 72001-0101; FLIR C2
- 72002-0202; FLIR C2 Educational Kit
- 72003-0303; FLIR C3 (incl. Wi-Fi)
- 72003-0404; FLIR C3 (incl. Wi-Fi) Educational Kit

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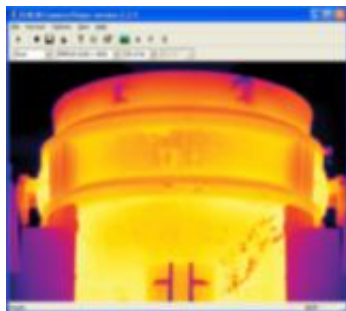
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Website

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Customer support

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General description	
FLIR IR Camera Player is a PC-based remote control and viewer that you can use with cameras from FLIR Systems.	
You can perform one or more of the following with FLIR IR Camera Player:	
<ul style="list-style-type: none"> Record a video stream from the camera. Save a frame from the video stream as a snapshot image (*.bmp). Autofocus, focus far, and focus near. Autoadjust the camera image. Freeze the camera image. Save a camera image in the camera. Change Color palette. Add an image description and a text comment to an image. 	
You connect a camera in one of the following ways:	
<ul style="list-style-type: none"> Ethernet FireWire USB 	
Download	
This software is a freeware. To download, click the following link:	
http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=89	
Release notes	
Version	2.3.3
New features	Main improvements in version 2.3.3: <ul style="list-style-type: none"> Added latest device drivers (1.9.1.0). Various bugfixes Main improvements in version 2.2.7: <ul style="list-style-type: none"> Added support for FLIR Ax5 series.
System requirements	
Operating system	<ul style="list-style-type: none"> Windows XP, 32-bit Windows Vista, 32-bit/64-bit Windows 7, 32-bit/64-bit

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 73309-0102; FLIR A35 f=9 mm with SC kit
- 83225-0101; FLIR A35 FOV 13 (60 Hz, ver. 2017)
- 83213-0102; FLIR A35 FOV 25 (60 Hz, ver. 2017)
- 83207-0102; FLIR A35 FOV 45 (60 Hz, ver. 2017)
- 83250-0101; FLIR A35 FOV 6.5 (60 Hz, ver. 2017)
- 83209-0102; FLIR A35 FOV 69 (30 Hz, ver. 2017)
- 73413-0102; FLIR A65 f=13 mm with SC kit (30 Hz)
- 73513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 75050-0101; FLIR A65 FOV 12.4 (30 Hz, ver. 2016)
- 75025-0101; FLIR A65 FOV 25 (30 Hz, ver. 2016)
- 75013-0101; FLIR A65 FOV 45 (30 Hz, ver. 2016)
- 75010-0101; FLIR A65 FOV 6.2 (30 Hz, ver. 2016)
- 75007-0101; FLIR A65 FOV 90 (30 Hz, ver. 2016)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

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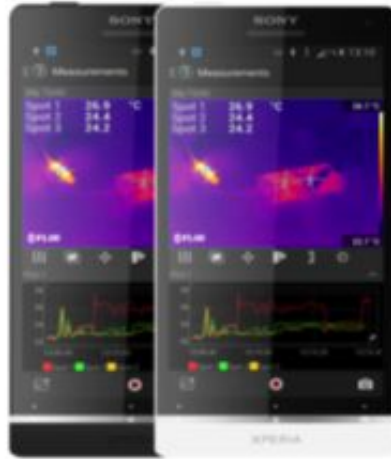
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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
FLIR Tools Mobile is an intuitive Android app for analyzing, managing, and distributing infrared images.	
Key features:	
<ul style="list-style-type: none"> • Remote control • MSX • Images with sketch on DC and IR • Images with field of view follow • Editable text comments • Emissivity table • Import images from your Wi-Fi-enabled camera. • Connect and stream infrared images from the camera. • Connect and stream measurement data from FLIR Test & Measurement meters • Lay out and move measurement tools on the image. • Read out temperature measurements. • Create and configure temporal plots based on results of measurement tools on the infrared image. • Log measurement data and export it as a *.csv file. • Save a measurement scenario as a data snapshot. • Zoom in on images. • On the Android device, remotely take snapshots when a camera is connected. • On the camera, take snapshots that will automatically be saved on the Android device. • Delete images on the Android device. • Display an image's GPS coordinates on Google Maps. • Create and e-mail reports. • Save images in the Android device photo library. • Send images to FTP sites and other file-sharing services (Dropbox, Box.net, etc.). • Display image information, e.g., object parameters, text comments, and file details. • Play back voice comments. • Change the level and span. • Change general settings in the app. • Change the palette. 	
Download	
The application can be downloaded from Android Market or Amazon Marketplace, see the link below.	
https://market.android.com/details?id=com.flir.viewer	
Release notes	
Version	3.8.0
New features	Main improvements in version 3.8.0: <ul style="list-style-type: none"> • Fixed loading of Japanese help files. • Fixed import bug for Samsung S6. • Fixed opening image taken from CAT S60. • Support for Ex, C3, and the new Exx cameras. • Import from Work folders. • Area measurement and length measurement feature based on object distance. • Various bug fixes.



FLIR Tools Mobile (Android Application)

P/N: APP-10002

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Website

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Customer support

<http://support.flir.com>

System requirements

Operating system

- Android 4.03 and later

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

P/N: APP-10003

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Website

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<p>General description</p> <p>FLIR Tools Mobile lets professional thermographers use an iPad, iPhone, or iPod touch to see and capture live, streaming infrared video and stills from select FLIR cameras.</p> <p>With FLIR Tools Mobile the camera can be stationed in one area and operated wirelessly from another – highly useful for IR inspections of energized equipment or performing IR surveys in hard-to-reach locations and harsh working environments. Streaming video and remote access also gives decision makers and others on your team a valuable opportunity to observe and collaborate in the thermal imaging process.</p> <p>Using FLIR Tools Mobile, you can do one or more of the following:</p> <ul style="list-style-type: none"> • Import images from your infrared camera • Lay out and move measurement tools on the image • Read out temperature measurements • Zoom in on images • On the iPhone/iPad, remotely take snapshots when a camera is connected • On the camera, take snapshots that will automatically be saved in the iPhone/iPad • Delete any images on the iPhone/iPad • Display an image's GPS coordinates on Google Maps • Create and e-mail imagesheets • Create and e-mail reports • Print imagesheets and reports to any AirPrint-enabled printer • Save images to iPhone/iPad photo library • Send images to FTP sites and other file sharing services (Dropbox, Box.net, etc.) • Display image information, such as object parameters, text comments, file information, etc. • Play-back voice comments • Change level and span • Change general settings in the app • Change palette <p>FLIR Tools Mobile lets you take control of the following features on selected cameras:</p> <ul style="list-style-type: none"> • Remote control of your FLIR camera. • Support for MSX (Multi-Spectral Dynamic Imaging) images. • Support for sketch images in both IR and visual with on/off toggling. • Support for same FOV ("Field of View Match"). • Editable text comments. • Auto and manual focus • Level and span • Color palettes • Temperature measurement analytics • Spot • Area box • Circle • Line • Parameter settings • Emissivity • Reflected temperature • Relative humidity • Atmospheric temperature • IR and visible light image blending • Picture-in-picture • Thermal fusion • Image storage • MPEG 4 video • Radiometric JPEG stills
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FLIR Tools Mobile (iPad/iPhone Application)

P/N: APP-10003

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Download
The application can be downloaded from App Store, see the link below.
http://itunes.apple.com/app/flir-tools/id511247887?mt=8

Release notes	
Version	1.8.2
New features	Main improvements in version 1.8.2: Various bug fixes.

System requirements	
Operating system	• iOS 8.0 or later
Hardware requirements	• iPhone • iPad • iPod

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°

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Website

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General description	
The FLIR Atlas SDK for .NET is a software development kit that enables developers to create applications. Supported by help files and sample code, developers can add functionality or collaborate with other FLIR products to get the result they want in their application.	
Key features:	
<ul style="list-style-type: none"> • Supports communication and streaming using FireWire, Gigabit, RTSP, and USB interfaces. • Gives the user full control of the camera. • Supports recording of images using FireWire, Gigabit, RTSP, and USB interfaces. • Converts 16-bit signal pixels into temperature data, for maximum user flexibility. • Allows 16-bit temperature linear, histogram, and signal outputs. 	
Release notes	
Version	3.1
Shipping information	
Packaging, type	Cardboard box
List of contents	Download card with printed license key
Packaging, weight	0.056 kg (0.123 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558011126
UPC-12	845188012014
Country of origin	Sweden
System requirements	
Operating system	<ul style="list-style-type: none"> • Windows 7 (32- and 64-bit) • Windows 8 (32- and 64-bit) • Windows 10 (32- and 64-bit)

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case

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- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 73309-0102; FLIR A35 f=9 mm with SC kit
- 83225-0101; FLIR A35 FOV 13 (60 Hz, ver. 2017)
- 83213-0102; FLIR A35 FOV 25 (60 Hz, ver. 2017)
- 83207-0102; FLIR A35 FOV 45 (60 Hz, ver. 2017)
- 83250-0101; FLIR A35 FOV 6.5 (60 Hz, ver. 2017)
- 83209-0102; FLIR A35 FOV 69 (30 Hz, ver. 2017)
- 73413-0102; FLIR A65 f=13 mm with SC kit (30 Hz)
- 73513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 75050-0101; FLIR A65 FOV 12.4 (30 Hz, ver. 2016)
- 75025-0101; FLIR A65 FOV 25 (30 Hz, ver. 2016)
- 75013-0101; FLIR A65 FOV 45 (30 Hz, ver. 2016)
- 75010-0101; FLIR A65 FOV 6.2 (30 Hz, ver. 2016)
- 75007-0101; FLIR A65 FOV 90 (30 Hz, ver. 2016)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°

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<http://support.flir.com>

- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 65702-0102; FLIR GF343 24° Fixed lens
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 71502-0101; FLIR G300 a 14.5° fixed lens
- 71502-0102; FLIR G300 a 24° fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 63901-0101; FLIR E4
- 63906-0604; FLIR E4 (incl. Wi-Fi)
- 63905-0501; FLIR E5
- 63909-0904; FLIR E5 (incl. Wi-Fi)
- 63902-0202; FLIR E6
- 63907-0704; FLIR E6 (incl. Wi-Fi)
- 63903-0303; FLIR E8
- 63908-0805; FLIR E8 (incl. Wi-Fi)
- 72001-0101; FLIR C2
- 72002-0202; FLIR C2 Educational Kit
- 72003-0303; FLIR C3 (incl. Wi-Fi)
- 72003-0404; FLIR C3 (incl. Wi-Fi) Educational Kit

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General description

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Key features:

- Supports communication and streaming using FireWire, Gigabit, RTSP, and USB interfaces.
- Gives the user full control of the camera.
- Supports recording of images using FireWire, Gigabit, RTSP, and USB interfaces.
- Converts 16-bit signal pixels into temperature data, for maximum user flexibility.
- Allows 16-bit temperature linear, histogram, and signal outputs.

Release notes

Version	3.1
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Shipping information

Packaging, type	Cardboard box
List of contents	Download card with printed license key
Packaging, weight	0.056 kg (0.123 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558011133
UPC-12	845188012021
Country of origin	Sweden

System requirements

Operating system	MATLAB 2015 (32- and 64-bit) and one of the following operating systems: <ul style="list-style-type: none"> • Windows 7 (32- and 64-bit) • Windows 8 (32- and 64-bit) • Windows 10 (32- and 64-bit)
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Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)

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Website

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Customer support

<http://support.flir.com>

- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 73309-0102; FLIR A35 f=9 mm with SC kit
- 83225-0101; FLIR A35 FOV 13 (60 Hz, ver. 2017)
- 83213-0102; FLIR A35 FOV 25 (60 Hz, ver. 2017)
- 83207-0102; FLIR A35 FOV 45 (60 Hz, ver. 2017)
- 83250-0101; FLIR A35 FOV 6.5 (60 Hz, ver. 2017)
- 83209-0102; FLIR A35 FOV 69 (30 Hz, ver. 2017)
- 73413-0102; FLIR A65 f=13 mm with SC kit (30 Hz)
- 73513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 75050-0101; FLIR A65 FOV 12.4 (30 Hz, ver. 2016)
- 75025-0101; FLIR A65 FOV 25 (30 Hz, ver. 2016)
- 75013-0101; FLIR A65 FOV 45 (30 Hz, ver. 2016)
- 75010-0101; FLIR A65 FOV 6.2 (30 Hz, ver. 2016)
- 75007-0101; FLIR A65 FOV 90 (30 Hz, ver. 2016)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 65702-0102; FLIR GF343 24° Fixed lens
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 71502-0101; FLIR G300 a 14.5° fixed lens
- 71502-0102; FLIR G300 a 24° fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 63901-0101; FLIR E4
- 63906-0604; FLIR E4 (incl. Wi-Fi)
- 63905-0501; FLIR E5
- 63909-0904; FLIR E5 (incl. Wi-Fi)
- 63902-0202; FLIR E6
- 63907-0704; FLIR E6 (incl. Wi-Fi)
- 63903-0303; FLIR E8
- 63908-0805; FLIR E8 (incl. Wi-Fi)
- 72001-0101; FLIR C2
- 72002-0202; FLIR C2 Educational Kit
- 72003-0303; FLIR C3 (incl. Wi-Fi)
- 72003-0404; FLIR C3 (incl. Wi-Fi) Educational Kit

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Website

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Customer support

<http://support.flir.com>



General description
ThermoVision™ System Developers Kit
Key features:
<ul style="list-style-type: none"> • Supports communication and broadcasting via FireWire™, Ethernet, and USB interfaces. • Gives the user full control of the camera. • Allows the user to set alarm conditions and measurement functions in the camera • Allows the user to define I/O functionality (FLIR A series). • Based on ActiveX technology. • Supports acquisition of images through FireWire™, Ethernet, and USB interfaces. • Reads from and writes to file in FLIR Systems' proprietary file format and writes to files in FLIR Systems' open floating point format (*.fpf). • Converts 16-bit absolute pixels into temperature pixels and several intermediate types of pixels formats, for maximum user flexibility. Applies to all camera models with temperature measurement capabilities. • Allows 16-bit temperature linear outputs from FLIR A series cameras. • Includes method that allows using individual emissivity value correction on any single pixel or condensed measuring value – e.g. average, minimum etc. • Supports conditional recording to file through FireWire™, Ethernet, and USB interfaces.
Users with licenses for the previous version can download a free upgrade via the following link: http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=62

Release notes	
Version	ThermoVision 2.6 SP2
New features	<ul style="list-style-type: none"> • --- News in SP2: • Support for FLIR GF3XX series • Support for windowing in FLIR A615 and FLIR SC6x5 • Support for windowing in FLIR SC6x0 • Various bug fixes

Shipping information	
Packaging, type	Cardboard box
Packaging, weight	0.132 kg (0.3 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005293
UPC-12	845188005504
Country of origin	Sweden

Compatible with the following products:

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310



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Website

<http://www.flir.com>

Customer support

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- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

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Website

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Customer support

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General description	
<p>The ThermoVision LabVIEW Toolkit is a set of VIs (virtual instruments) for cameras that support alarms, measurement functions, and I/O functionality.</p> <p>Through LabVIEW, you can use these VIs as sub-VIs to manage communications with a FLIR IR camera in digital mode.</p> <p>You can also generate true temperature images from images acquired through LabVIEW, and can use the LabVIEW IR Measurement and Display tools to analyze the temperatures of imaged objects.</p>	
<p>Key features:</p> <ul style="list-style-type: none"> • Set up communications between LabVIEW VI and a FLIR IR camera • Capture and collect images via FireWire or Ethernet interfaces • Adjust the camera configuration parameters and focus as you view a live image • Control the camera calibration • Send any other camera command to the camera • Generate a true temperature image from a 16-bit image acquired using the camera's • FireWire or Ethernet interfaces • Close communications to the IR camera 	
<p>Users with licenses for the previous version can download a free upgrade via the following link: http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=63</p>	
<p>Note: Only supports National Instrument 32-bit Labview</p>	

Release notes	
Version	3.3
New features	<ul style="list-style-type: none"> • Windows 7 32- and 64-bit support • Support for FLIR A615 and FLIR SC6X5 (including windowing) • Support for windowing in FLIR SC660 • Various bug fixes • New example VIs

Shipping information	
Packaging, type	Cardboard box
Packaging, weight	0.133 kg (0.3 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005187
UPC-12	845188005399
Country of origin	Sweden

Compatible with the following products:

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)

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Website

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Customer support

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- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

P/N: 324-0004-00

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
Hard transport case for F and FLIR A3xxf series thermal imaging camera:	
Rugged, watertight plastic shipping case. Holds all items securely. The case can be locked with padlocks and features a breather valve to prevent pressure build-up in airplane cargo holds.	

Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009680
UPC-12	845188010263
Country of origin	Sweden

Compatible with the following products:

- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°

P/N: 500-0463-00

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
F and FLIR A3xxf series pedestal mount:	
Mount to install an F series network-ready fixed mount thermal imaging camera or a FLIR A3xxf series. Typically used on a flat horizontal surface such as a wall or the top of a pole.	

Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009802
UPC-12	845188010348
Country of origin	Sweden

Compatible with the following products:

- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°

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Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
F and FLIR A3xxf series pole mount adapter:	
Can be used to mount an F series network-ready thermal imaging camera or a FLIR A3xxf series against a new or existing pole.	

Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009826
UPC-12	845188010362
Country of origin	Sweden

Compatible with the following products:

- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°

P/N: 500-0462-00

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Website

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Customer support

<http://support.flir.com>



General description	
F and FLIR A3xxf series wall mount: Mount to install an F series network-ready fixed mount thermal imaging camera or a FLIR A3xxf series against a wall.	
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009840
UPC-12	845188010386
Country of origin	Sweden

Compatible with the following products:

- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°

P/N: 4130235

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description
<p>Software to manage and control FLIR Systems thermal imaging cameras for security and safety applications</p> <p>FLIR Sensors Manager offers powerful and efficient management capabilities for any security installation with FLIR Systems thermal imaging cameras. FLIR Sensors Manager allows to automatically locate FLIR Systems thermal imaging cameras in the network and to easily control them. Just connect the thermal imaging camera to the network, install FLIR Sensors Manager and hit the "discover" button and you will be able to manage and control the camera. Thanks to FLIR Sensors Manager, the management of FLIR Systems thermal imaging cameras over a network will become extremely easy.</p> <p>FLIR Sensors Manager does not only allow controlling F-, PT- and D-Series thermal imaging cameras. It is also suited for managing thermal imaging cameras with temperature capabilities like the FLIR A310 f and FLIR A310 pt.</p> <p>FLIR Sensors Manager allows you to get the most out of your thermal imaging camera with temperature measurement capability. It is ideal for monitoring critical infrastructure and for preventing fires.</p> <p>FLIR Sensors Manager allows to automatically locate FLIR A310 pt and FLIR A310 f cameras in the network. They can be easily controlled and set-up in a distributed multi-camera environment</p>
<p>FLIR Sensors Manager is available in two different versions: Basic (freeware) and Pro. Depending on your exact needs and your security network, you can choose the version that best fits your system's requirements. A free demo version is available and can be downloaded from our website. After registration, the demo version is converted to the basic version.</p>
<p>The Basic version of FLIR Sensors Manager (freeware) allows to:</p> <ul style="list-style-type: none"> • Discover sensors in the network • Command and control of up to four networked sensors: focus, pan/tilt, zoom • Display network video • Define presets • Manage scan lists • Create panoramas • Configure user profiles(toolbars, layout, etc) • Show thermal images on multiple monitors • Capture images • Geo Mapping
<p>The Pro version of FLIR Sensors Manager contains all the features that are incorporated in the Basic version, plus a number of useful modes that will help you make the most out of your security network.</p>



FLIR Sensors Manager, pro

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General description

Video analytics

Allows to perform video analytics within FLIR Sensors Manager. It includes:

- Video Motion Detection: FLIR's pro proprietary algorithm will work on thermal or visible video in the most harsh environments.
- Target detection with alarms based on spatial rules like trip wires crossing or areas triggered by enter, exit or both events.
- Software based video-tracking of moving objects for control of PTZ sensors.

Radar Cueing and radar tracks display

Allows display of real-time position and classification information of radar targets (ID, course, speed, lat/lon, classification, ...) coming from Nexus enabled radars. Allows users to command cameras in advanced radar slave modes (ARPA tracking).

Video wall display

Allows fully configurable video mosaic layouts, supporting both network and analog frame grabber sources. E-stab Provides a steady image. Can be extremely useful when cameras are installed on high poles where they can be affected by wind or vibration.

Download

The demo version is a freeware. To download, click the following link:

<http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=157>

Release notes

Version	FLIR Sensors Manager - FSM

Shipping information

Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009987
UPC-12	845188010522
Country of origin	Sweden

System requirements

Operating system	<ul style="list-style-type: none">• Windows XP, 32-bit• Windows Vista, 32-bit• Windows 7, 32-bit• Windows 7, 64-bit
------------------	--

Compatible with the following products:

- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°



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- 61201-1105; FLIR A310f 90°

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Accessories for FLIR A3xx pt series

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P/N: T130152

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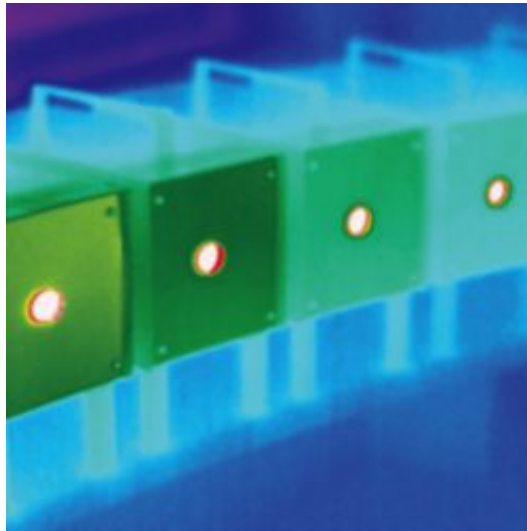
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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
For high temperature applications the camera can be calibrated for high temperature ranges.	
Measurement	
Temperature range	+200 to +1200°C (+392 to +2192°F)

Compatible with the following products:

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°

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Website

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Customer support

<http://support.flir.com>



General description

PT and FLIR A310pt series adapter plate:

Can be used to mount a PT series network-ready multi-sensor or a FLIR A310pt series to a wide variety of existing mounts.

Shipping information

Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009789
UPC-12	845188010324
Country of origin	Sweden

Compatible with the following products:

- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
Nexus Console Joystick:	
Joystick to control the D series or a FLIR A310pt series.	

Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009796
UPC-12	845188010331
Country of origin	Sweden

Compatible with the following products:

- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL

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Website

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Customer support

<http://support.flir.com>



General description	
PT and FLIR A310pt series pedestal mount:	
Mount to install a PT series network-ready multi-sensor or a FLIR A310pt series. Typically used on a flat horizontal surface such as a wall or the top of a pole.	

Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009819
UPC-12	845188010355
Country of origin	Sweden

Compatible with the following products:

- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL

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Website

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Customer support

<http://support.flir.com>



General description	
PT and FLIR A310pt series pole mount adapter:	
Adapts the PT and FLIR A310pt series wall mount for installation on a pole.	

Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009833
UPC-12	845188010379
Country of origin	Sweden

Compatible with the following products:

- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
Power supply to power a FLIR A310pt series.	
Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009314
UPC-12	845188009847
Country of origin	Sweden

Compatible with the following products:

- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL

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Website

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Customer support

<http://support.flir.com>



General description

PT and FLIR A310pt series wall mount:

Can be used to mount a PT series network-ready multi-sensor or a FLIR A310pt series against a wall.

Shipping information

Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009857
UPC-12	845188010393
Country of origin	Sweden

Compatible with the following products:

- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL

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Website

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Customer support

<http://support.flir.com>



General description

Hard transport case for FLIR A3xxpt series thermal imaging camera:

Rugged, watertight plastic shipping case. Holds all items securely. The case can be locked with padlocks and features a breather valve to prevent pressure build-up in airplane cargo holds.

Shipping information

Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009697
UPC-12	845188010270
Country of origin	Sweden

Compatible with the following products:

- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>**General description**

Software to manage and control FLIR Systems thermal imaging cameras for security and safety applications

FLIR Sensors Manager offers powerful and efficient management capabilities for any security installation with FLIR Systems thermal imaging cameras. FLIR Sensors Manager allows to automatically locate FLIR Systems thermal imaging cameras in the network and to easily control them. Just connect the thermal imaging camera to the network, install FLIR Sensors Manager and hit the "discover" button and you will be able to manage and control the camera. Thanks to FLIR Sensors Manager, the management of FLIR Systems thermal imaging cameras over a network will become extremely easy.

FLIR Sensors Manager does not only allow controlling F-, PT- and D-Series thermal imaging cameras. It is also suited for managing thermal imaging cameras with temperature capabilities like the FLIR A310 f and FLIR A310 pt.

FLIR Sensors Manager allows you to get the most out of your thermal imaging camera with temperature measurement capability. It is ideal for monitoring critical infrastructure and for preventing fires.

FLIR Sensors Manager allows to automatically locate FLIR A310 pt and FLIR A310 f cameras in the network. They can be easily controlled and set-up in a distributed multi-camera environment

FLIR Sensors Manager is available in two different versions: Basic (freeware) and Pro. Depending on your exact needs and your security network, you can choose the version that best fits your system's requirements. A free demo version is available and can be downloaded from our website. After registration, the demo version is converted to the basic version.

The Basic version of FLIR Sensors Manager (freeware) allows to:

- Discover sensors in the network
- Command and control of up to four networked sensors: focus, pan/tilt, zoom
- Display network video
- Define presets
- Manage scan lists
- Create panoramas
- Configure user profiles(toolbars, layout, etc)
- Show thermal images on multiple monitors
- Capture images
- Geo Mapping

The Pro version of FLIR Sensors Manager contains all the features that are incorporated in the Basic version, plus a number of useful modes that will help you make the most out of your security network.



FLIR Sensors Manager, pro

P/N: 4130235

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Website

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Customer support

<http://support.flir.com>

General description

Video analytics

Allows to perform video analytics within FLIR Sensors Manager. It includes:

- Video Motion Detection: FLIR's pro proprietary algorithm will work on thermal or visible video in the most harsh environments.
- Target detection with alarms based on spatial rules like trip wires crossing or areas triggered by enter, exit or both events.
- Software based video-tracking of moving objects for control of PTZ sensors.

Radar Cueing and radar tracks display

Allows display of real-time position and classification information of radar targets (ID, course, speed, lat/lon, classification, ...) coming from Nexus enabled radars. Allows users to command cameras in advanced radar slave modes (ARPA tracking).

Video wall display

Allows fully configurable video mosaic layouts, supporting both network and analog frame grabber sources. E-stab Provides a steady image. Can be extremely useful when cameras are installed on high poles where they can be affected by wind or vibration.

Download

The demo version is a freeware. To download, click the following link:

<http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=157>

Release notes

Version	FLIR Sensors Manager - FSM

Shipping information

Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009987
UPC-12	845188010522
Country of origin	Sweden

System requirements

Operating system	<ul style="list-style-type: none">• Windows XP, 32-bit• Windows Vista, 32-bit• Windows 7, 32-bit• Windows 7, 64-bit
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Compatible with the following products:

- 60902-1102; FLIR A310pt 15° (9 Hz) NTSC
- 60901-1102; FLIR A310pt 15° (9 Hz) PAL
- 61002-1102; FLIR A310pt 15° NTSC
- 61001-1102; FLIR A310pt 15° PAL
- 60902-1103; FLIR A310pt 25° (9 Hz) NTSC
- 60901-1103; FLIR A310pt 25° (9 Hz) PAL
- 61002-1103; FLIR A310pt 25° NTSC
- 61001-1103; FLIR A310pt 25° PAL
- 60902-1104; FLIR A310pt 45° (9 Hz) NTSC
- 60901-1104; FLIR A310pt 45° (9 Hz) PAL
- 61002-1104; FLIR A310pt 45° NTSC
- 61001-1104; FLIR A310pt 45° PAL
- 60902-1101; FLIR A310pt 6° (9 Hz) NTSC
- 60901-1101; FLIR A310pt 6° (9 Hz) PAL
- 61002-1101; FLIR A310pt 6° NTSC
- 61001-1101; FLIR A310pt 6° PAL
- 60902-1105; FLIR A310pt 90° (9 Hz) NTSC
- 60901-1105; FLIR A310pt 90° (9 Hz) PAL
- 61002-1105; FLIR A310pt 90° NTSC
- 61001-1105; FLIR A310pt 90° PAL
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°



P/N: 4130235

- 61201-1105; FLIR A310f 90°

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Website

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Accessories for FLIR A6xx series

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P/N: T197870ACC

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Website

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Customer support

<http://support.flir.com>



General description

Cardboard box with plastic handle for the A3xx, A3xxsc, A6xx and A6xxsc series. Holds all items neatly.

Physical data

Weight	0.86 kg (1.9 lb.)
Size (L × W × H)	455 × 300 × 165 mm (17.9 × 11.8 × 6.5 in.)
Material	Cardboard

Shipping information

Packaging, type	Cardboard box
List of contents	• Transport case
Packaging, weight	1.25 kg (2.76 lb.)
Packaging, size	495 × 370 × 192 mm (19.5 × 14.6 × 7.6 in.)
EAN-13	7332558008324
UPC-12	845188008673
Country of origin	Sweden

Compatible with the following products:

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

For R&D usage or development purposes. As an example looking at PCB's or small electronic components.

Imaging and optical data

Field of view (FOV)	16 × 12 mm (20 mm diagonally)
Magnifying factor	1.5×
Working distance	46 mm
Depth of field	0.21 mm
Focal length	62 mm
Spatial resolution (IFOV)	25 μm
Lens identification	Automatic
F-number	1.1
Number of lenses	4 (4 asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	< 3%

Physical data

Weight	0.48 kg (1.1 lb.)
Size (L × D)	86 × 67 mm
Front lens diameter	52 mm

Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Lens • Front lens cap • Rear lens cap • Case • Instruction for mounting close-up lenses
Packaging, weight	0.737 kg (1.6 lb.)
Packaging, size	172 × 131 × 133 mm (6.8 × 5.2 × 5.2 in.)
EAN-13	73325585552
UPC-12	84518805764
Country of origin	Sweden

Compatible with the following products:

- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)

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- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°

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Website

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Customer support

<http://support.flir.com>



General description	
For R&D usage or development purposes. As an example looking at PCB's or small electronic components.	

Imaging and optical data	
Field of view (FOV)	32 × 24 mm (40 mm diagonally)
Magnifying factor	2.9×
Working distance	84 mm
Depth of field	0.65 mm
Focal length	78 mm
Spatial resolution (IFOV)	50 μm
Lens identification	Manual
F-number	1.0
Number of lenses	2 (2 asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	3%
Lens note	The close-up lens is mounted on the 25° lens

Physical data	
Weight	0.197 kg (0.43 lb.)
Size (L × D)	32 × 67 mm
Front lens diameter	53 mm

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Lens • Front lens cap • Rear lens cap • Case • Instruction for mounting close-up lenses
Packaging, weight	0.440 kg (0.97 lb.)
Packaging, size	172 × 131 × 133 mm (6.8 × 5.2 × 5.2 in.)
EAN-13	7332558005583
UPC-12	845188005795
Country of origin	Sweden

Compatible with the following products:

- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)

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Customer support

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- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 55001-0102; FLIR A615 25°
- 55001-0302; FLIR A655sc 25°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

For R&D usage or development purposes. As an example looking at PCB's or small electronic components.

Imaging and optical data

Field of view (FOV)	64 × 48 mm (80 mm diagonally)
Magnifying factor	5.8×
Working distance	172 mm
Depth of field	2.8 mm
Focal length	149 mm
Spatial resolution (IFOV)	100 μm
Lens identification	Manual
F-number	1.0
Number of lenses	2 (2 asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	3%
Lens note	The close-up lens is mounted on the 25° lens

Physical data

Weight	0.176 kg (0.39 lb.)
Size (L × D)	28 × 67 mm
Front lens diameter	53 mm

Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Lens • Front lens cap • Rear lens cap • Case • Instruction for mounting close-up lenses
Packaging, weight	0.426 kg (0.84 lb.)
Packaging, size	172 × 131 × 133 mm (6.8 × 5.2 × 5.2 in.)
EAN-13	84518805757
UPC-12	73325585545
Country of origin	Sweden

Compatible with the following products:

- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)

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Website

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Customer support

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- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 55001-0102; FLIR A615 25°
- 55001-0302; FLIR A655sc 25°

P/N: T951004ACC

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

This cable is used to connect the infrared camera to Ethernet.

Physical data

Weight	80 g (2.8 oz.)
Cable length	2.0 m (6.6 ft.)
Connector	RJ-45 to RJ-45
Cable type	CAT-6

Shipping information

Packaging, type	Cardboard box
Packaging, weight	130 g (4.6 oz.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558006320
UPC-12	845188006679
Country of origin	Sweden

Compatible with the following products:

- 73309-0102; FLIR A35 f=9 mm with SC kit
- 83225-0101; FLIR A35 FOV 13 (60 Hz, ver. 2017)
- 83213-0102; FLIR A35 FOV 25 (60 Hz, ver. 2017)
- 83207-0102; FLIR A35 FOV 45 (60 Hz, ver. 2017)
- 83250-0101; FLIR A35 FOV 6.5 (60 Hz, ver. 2017)
- 83209-0102; FLIR A35 FOV 69 (30 Hz, ver. 2017)
- 73413-0102; FLIR A65 f=13 mm with SC kit (30 Hz)
- 73513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 75050-0101; FLIR A65 FOV 12.4 (30 Hz, ver. 2016)
- 75025-0101; FLIR A65 FOV 25 (30 Hz, ver. 2016)
- 75013-0101; FLIR A65 FOV 45 (30 Hz, ver. 2016)
- 75010-0101; FLIR A65 FOV 6.2 (30 Hz, ver. 2016)
- 75007-0101; FLIR A65 FOV 90 (30 Hz, ver. 2016)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°



Ethernet cable CAT-6, 2m/6.6 ft.

P/N: T951004ACC

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

P/N: T126889ACC

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

The filter holder makes it possible to use filters with FLIR A6xx and FLIR A6xx sc series cameras. A filter is glued into the filter holder, and the filter holder is then mounted on the lens by screwing the holder onto the rear of the lens.

Dimensions for filter:

Diameter: 25.4 mm +0.1/-0.15 mm (1 in. +0.004/-0.006 in.).

Maximum thickness: 1.0 mm (0.04 in.).

Minimum free filter area diameter: 24 mm (0.94 in.).

NOTE: Filter is not included.

Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Filter holder • Plastic bag • Printed instruction
Packaging, weight	0.059 kg (0.13 lb.)
Packaging, size	202 × 146 × 25 mm (8 × 5.7 × 1 in.)
EAN-13	7332558007273
UPC-12	845188007645
Country of origin	Sweden

Compatible with the following products:

- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

The FLIR Atlas SDK for .NET is a software development kit that enables developers to create applications. Supported by help files and sample code, developers can add functionality or collaborate with other FLIR products to get the result they want in their application.

Key features:

- Supports communication and streaming using FireWire, Gigabit, RTSP, and USB interfaces.
- Gives the user full control of the camera.
- Supports recording of images using FireWire, Gigabit, RTSP, and USB interfaces.
- Converts 16-bit signal pixels into temperature data, for maximum user flexibility.
- Allows 16-bit temperature linear, histogram, and signal outputs.

Release notes

Version	3.1
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Shipping information

Packaging, type	Cardboard box
List of contents	Download card with printed license key
Packaging, weight	0.056 kg (0.123 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558011126
UPC-12	845188012014
Country of origin	Sweden

System requirements

Operating system	<ul style="list-style-type: none"> • Windows 7 (32- and 64-bit) • Windows 8 (32- and 64-bit) • Windows 10 (32- and 64-bit)
------------------	---

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case



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Website

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Customer support

<http://support.flir.com>

- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 73309-0102; FLIR A35 f=9 mm with SC kit
- 83225-0101; FLIR A35 FOV 13 (60 Hz, ver. 2017)
- 83213-0102; FLIR A35 FOV 25 (60 Hz, ver. 2017)
- 83207-0102; FLIR A35 FOV 45 (60 Hz, ver. 2017)
- 83250-0101; FLIR A35 FOV 6.5 (60 Hz, ver. 2017)
- 83209-0102; FLIR A35 FOV 69 (30 Hz, ver. 2017)
- 73413-0102; FLIR A65 f=13 mm with SC kit (30 Hz)
- 73513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 75050-0101; FLIR A65 FOV 12.4 (30 Hz, ver. 2016)
- 75025-0101; FLIR A65 FOV 25 (30 Hz, ver. 2016)
- 75013-0101; FLIR A65 FOV 45 (30 Hz, ver. 2016)
- 75010-0101; FLIR A65 FOV 6.2 (30 Hz, ver. 2016)
- 75007-0101; FLIR A65 FOV 90 (30 Hz, ver. 2016)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 65702-0102; FLIR GF343 24° Fixed lens
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 71502-0101; FLIR G300 a 14.5° fixed lens
- 71502-0102; FLIR G300 a 24° fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 63901-0101; FLIR E4
- 63906-0604; FLIR E4 (incl. Wi-Fi)
- 63905-0501; FLIR E5
- 63909-0904; FLIR E5 (incl. Wi-Fi)
- 63902-0202; FLIR E6
- 63907-0704; FLIR E6 (incl. Wi-Fi)
- 63903-0303; FLIR E8
- 63908-0805; FLIR E8 (incl. Wi-Fi)
- 72001-0101; FLIR C2
- 72002-0202; FLIR C2 Educational Kit
- 72003-0303; FLIR C3 (incl. Wi-Fi)
- 72003-0404; FLIR C3 (incl. Wi-Fi) Educational Kit

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
The FLIR Atlas SDK for MATLAB is a software development kit that enables developers to create applications. Supported by help files and sample code, developers can add functionality or collaborate with other FLIR products to get the result they want in their application.	
Key features:	
<ul style="list-style-type: none"> • Supports communication and streaming using FireWire, Gigabit, RTSP, and USB interfaces. • Gives the user full control of the camera. • Supports recording of images using FireWire, Gigabit, RTSP, and USB interfaces. • Converts 16-bit signal pixels into temperature data, for maximum user flexibility. • Allows 16-bit temperature linear, histogram, and signal outputs. 	
Release notes	
Version	3.1
Shipping information	
Packaging, type	Cardboard box
List of contents	Download card with printed license key
Packaging, weight	0.056 kg (0.123 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558011133
UPC-12	845188012021
Country of origin	Sweden
System requirements	
Operating system	MATLAB 2015 (32- and 64-bit) and one of the following operating systems: <ul style="list-style-type: none"> • Windows 7 (32- and 64-bit) • Windows 8 (32- and 64-bit) • Windows 10 (32- and 64-bit)

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)

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Website

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Customer support

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- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 73309-0102; FLIR A35 f=9 mm with SC kit
- 83225-0101; FLIR A35 FOV 13 (60 Hz, ver. 2017)
- 83213-0102; FLIR A35 FOV 25 (60 Hz, ver. 2017)
- 83207-0102; FLIR A35 FOV 45 (60 Hz, ver. 2017)
- 83250-0101; FLIR A35 FOV 6.5 (60 Hz, ver. 2017)
- 83209-0102; FLIR A35 FOV 69 (30 Hz, ver. 2017)
- 73413-0102; FLIR A65 f=13 mm with SC kit (30 Hz)
- 73513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 75050-0101; FLIR A65 FOV 12.4 (30 Hz, ver. 2016)
- 75025-0101; FLIR A65 FOV 25 (30 Hz, ver. 2016)
- 75013-0101; FLIR A65 FOV 45 (30 Hz, ver. 2016)
- 75010-0101; FLIR A65 FOV 6.2 (30 Hz, ver. 2016)
- 75007-0101; FLIR A65 FOV 90 (30 Hz, ver. 2016)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°

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Website

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Customer support

<http://support.flir.com>

- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 65702-0102; FLIR GF343 24° Fixed lens
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 71502-0101; FLIR G300 a 14.5° fixed lens
- 71502-0102; FLIR G300 a 24° fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 63901-0101; FLIR E4
- 63906-0604; FLIR E4 (incl. Wi-Fi)
- 63905-0501; FLIR E5
- 63909-0904; FLIR E5 (incl. Wi-Fi)
- 63902-0202; FLIR E6
- 63907-0704; FLIR E6 (incl. Wi-Fi)
- 63903-0303; FLIR E8
- 63908-0805; FLIR E8 (incl. Wi-Fi)
- 72001-0101; FLIR C2
- 72002-0202; FLIR C2 Educational Kit
- 72003-0303; FLIR C3 (incl. Wi-Fi)
- 72003-0404; FLIR C3 (incl. Wi-Fi) Educational Kit

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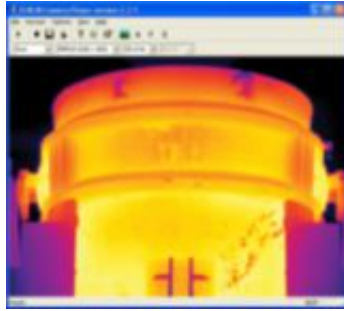
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Website

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Customer support

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General description

FLIR IR Camera Player is a PC-based remote control and viewer that you can use with cameras from FLIR Systems.

You can perform one or more of the following with FLIR IR Camera Player:

- Record a video stream from the camera.
- Save a frame from the video stream as a snapshot image (*.bmp).
- Autofocus, focus far, and focus near.
- Autoadjust the camera image.
- Freeze the camera image.
- Save a camera image in the camera.
- Change Color palette.
- Add an image description and a text comment to an image.

You connect a camera in one of the following ways:

- Ethernet
- FireWire
- USB

Download

This software is a freeware. To download, click the following link:

<http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=89>

Release notes

Version	2.3.3
New features	<p>Main improvements in version 2.3.3:</p> <ul style="list-style-type: none"> • Added latest device drivers (1.9.1.0). • Various bugfixes <p>Main improvements in version 2.2.7:</p> <ul style="list-style-type: none"> • Added support for FLIR Ax5 series.

System requirements

Operating system	<ul style="list-style-type: none"> • Windows XP, 32-bit • Windows Vista, 32-bit/64-bit • Windows 7, 32-bit/64-bit
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Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)



FLIR IR Camera Player

P/N: DSW-10000

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- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 73309-0102; FLIR A35 f=9 mm with SC kit
- 83225-0101; FLIR A35 FOV 13 (60 Hz, ver. 2017)
- 83213-0102; FLIR A35 FOV 25 (60 Hz, ver. 2017)
- 83207-0102; FLIR A35 FOV 45 (60 Hz, ver. 2017)
- 83250-0101; FLIR A35 FOV 6.5 (60 Hz, ver. 2017)
- 83209-0102; FLIR A35 FOV 69 (30 Hz, ver. 2017)
- 73413-0102; FLIR A65 f=13 mm with SC kit (30 Hz)
- 73513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 75050-0101; FLIR A65 FOV 12.4 (30 Hz, ver. 2016)
- 75025-0101; FLIR A65 FOV 25 (30 Hz, ver. 2016)
- 75013-0101; FLIR A65 FOV 45 (30 Hz, ver. 2016)
- 75010-0101; FLIR A65 FOV 6.2 (30 Hz, ver. 2016)
- 75007-0101; FLIR A65 FOV 90 (30 Hz, ver. 2016)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)



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Website

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- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

P/N: T198697

Revision

42932

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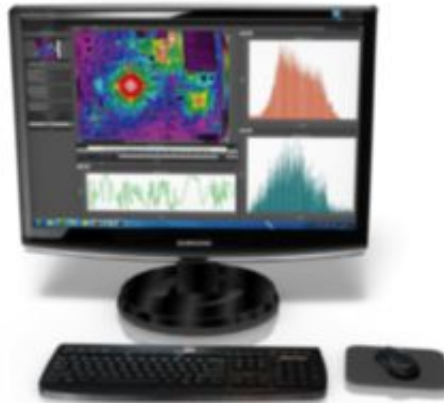
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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description
FLIR ResearchIR Max + HSDR 4 contains all the features of FLIR ResearchIR Max 4, plus support for FLIR High Speed Data Recorder (HSDR) products.
Main features:
<ul style="list-style-type: none"> • Pre/post-recording. • Mathematical processing toolbox. • Image filtering toolbox. • Radiometric digital detail enhancement (DDE) improves dramatically the understanding of the thermal image, while maintaining radiometric measurement accuracy. • View, record and store images at high speed. • Post-processing of fast thermal events. • Generate time-temperature plots from live images or recorded sequences. • Advanced start/stop recording conditions. • Unlimited number of analysis functions (spot, line, area). • File organizer. • Zoom and pan allows a closer look. • Multiple dockable objects for plots and statistics. • Export images and results to bitmap, video, Excel, MATLAB or CSV formats • Local scale gain control on measurement - automatically adjusts the contrast in a specific part of the image.
FLIR ResearchIR Max + HSDR 4 in combination with a FLIR thermal imaging camera is the perfect solution for any R&D or scientific application. It will allow researchers in all fields to make the smallest of temperature differences visible and to thoroughly analyze the thermal process in real-time.

Download
Download your copy of FLIR ResearchIR Max + HSDR 4 here (hardware security device required to run the software):
http://support.flir.com/rir4

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • FLIR ResearchIR Max + HSDR 4 download card. • Hardware security device.
Packaging, weight	0.068 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558007280
UPC-12	845188007652
Country of origin	Sweden

Compatible with the following products:

- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°



FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)

P/N: T198697

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Website

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Customer support

<http://support.flir.com>

- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens



FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)

P/N: T198697

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

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Website

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Customer support

<http://support.flir.com>



General description

FLIR ResearchIR Max + HSDR 4 contains all the features of FLIR ResearchIR Max 4, plus support for FLIR High Speed Data Recorder (HSDR) products.

Main features:

- Pre/post-recording.
- Mathematical processing toolbox.
- Image filtering toolbox.
- Radiometric digital detail enhancement (DDE) improves dramatically the understanding of the thermal image, while maintaining radiometric measurement accuracy.
- View, record and store images at high speed.
- Post-processing of fast thermal events.
- Generate time-temperature plots from live images or recorded sequences.
- Advanced start/stop recording conditions.
- Unlimited number of analysis functions (spot, line, area).
- File organizer.
- Zoom and pan allows a closer look.
- Multiple dockable objects for plots and statistics.
- Export images and results to bitmap, video, Excel, MATLAB or CSV formats
- Local scale gain control on measurement - automatically adjusts the contrast in a specific part of the image.

FLIR ResearchIR Max + HSDR 4 in combination with a FLIR thermal imaging camera is the perfect solution for any R&D or scientific application. It will allow researchers in all fields to make the smallest of temperature differences visible and to thoroughly analyze the thermal process in real-time.

Download

Download your copy of FLIR ResearchIR Max + HSDR 4 here (evaluation copy only – license key required):

<http://support.flir.com/rir4>

Shipping information

Packaging, type	Cardboard box
List of contents	FLIR ResearchIR Max + HSDR 4 download card, incl. license key.
Packaging, weight	0.068 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558010464
UPC-12	845188011116
Country of origin	Sweden

Compatible with the following products:

- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case



FLIR ResearchIR Max + HSDR 4 (printed license key)

P/N: T199014

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)



FLIR ResearchIR Max + HSDR 4 (printed license key)

P/N: T199014

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

P/N: T199044

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description
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Main features:
<ul style="list-style-type: none"> • Pre/post-recording. • Mathematical processing toolbox. • Image filtering toolbox. • Radiometric digital detail enhancement (DDE) improves dramatically the understanding of the thermal image, while maintaining radiometric measurement accuracy. • View, record and store images at high speed. • Post-processing of fast thermal events. • Generate time-temperature plots from live images or recorded sequences. • Advanced start/stop recording conditions. • Unlimited number of analysis functions (spot, line, area). • File organizer. • Zoom and pan allows a closer look. • Multiple dockable objects for plots and statistics. • Export images and results to bitmap, video, Excel, MATLAB or CSV formats • Local scale gain control on measurement - automatically adjusts the contrast in a specific part of the image.
FLIR ResearchIR Max + HSDR 4 in combination with a FLIR thermal imaging camera is the perfect solution for any R&D or scientific application. It will allow researchers in all fields to make the smallest of temperature differences visible and to thoroughly analyze the thermal process in real-time.

Download
Download your copy of FLIR ResearchIR Max + HSDR 4 here (evaluation copy only – license key required):
http://support.flir.com/rir4

Shipping information	
Packaging, type	Cardboard box
List of contents	FLIR ResearchIR Max + HSDR 4 download card, incl. license key.
Packaging, weight	0.068 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558010495
UPC-12	845188011147
Country of origin	Sweden

Compatible with the following products:

- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case



FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)



FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)

P/N: T199044

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

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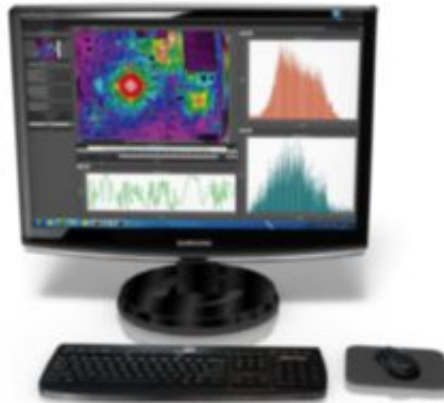
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Website

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General description

FLIR ResearchIR Max 4 is aimed at R&D and science professionals who use thermal imaging cameras with a cooled or uncooled detectors. FLIR ResearchIR Max makes the most of a thermal imaging camera, and allows high-speed recording and advanced thermal pattern analysis. FLIR ResearchIR Max is the perfect tool for industrial R&D.

Main features:

- Pre/post-recording.
- Mathematical processing toolbox.
- Image filtering toolbox.
- Radiometric digital detail enhancement (DDE) improves dramatically the understanding of the thermal image, while maintaining radiometric measurement accuracy.
- View, record and store images at high speed.
- Post-processing of fast thermal events.
- Generate time-temperature plots from live images or recorded sequences.
- Advanced start/stop recording conditions.
- Unlimited number of analysis functions (spot, line, area).
- File organizer.
- Zoom and pan allows a closer look.
- Multiple dockable objects for plots and statistics.
- Export images and results to bitmap, video, Excel, MATLAB or CSV formats
- Local scale gain control on measurement - automatically adjusts the contrast in a specific part of the image.

FLIR ResearchIR Max 4 in combination with a FLIR thermal imaging camera is the perfect solution for any R&D or scientific application. It will allow researchers in all fields to make the smallest of temperature differences visible and to thoroughly analyze the thermal process in real-time.

Download

Download your copy of FLIR ResearchIR Max 4 here (hardware security device required to run the software):

<http://support.flir.com/rir4>

Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • FLIR ResearchIR Max 4 download card. • Hardware security device.
Packaging, weight	0.066 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558007266
UPC-12	845188007638
Country of origin	Sweden

Compatible with the following products:

- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0401; FLIR T1050sc 12°



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Website

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Customer support

<http://support.flir.com>

- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 84502-0201; FLIR E53 24°
- 78501-0101; FLIR E75 14°
- 78502-0101; FLIR E75 24°
- 78504-0101; FLIR E75 24° + 14°
- 78506-0101; FLIR E75 24° + 14° & 42°
- 78505-0101; FLIR E75 24° + 42°
- 78503-0101; FLIR E75 42°
- 78507-0101; FLIR E75 42° + 14°
- 78501-0201; FLIR E85 14°
- 78502-0201; FLIR E85 24°
- 78504-0201; FLIR E85 24° + 14°
- 78506-0201; FLIR E85 24° + 14° & 42°
- 78505-0201; FLIR E85 24° + 42°
- 78503-0201; FLIR E85 42°
- 78507-0201; FLIR E85 42° + 14°
- 78501-0301; FLIR E95 14°
- 78502-0301; FLIR E95 24°
- 78504-0301; FLIR E95 24° + 14°
- 78506-0301; FLIR E95 24° + 14° & 42°
- 78505-0301; FLIR E95 24° + 42°
- 78503-0301; FLIR E95 42°
- 78507-0301; FLIR E95 42° + 14°
- 79301-0101; FLIR T530 14°
- 79302-0101; FLIR T530 24°
- 79304-0101; FLIR T530 24° + 14°
- 79306-0101; FLIR T530 24° + 14° & 42°
- 79305-0101; FLIR T530 24° + 42°
- 79303-0101; FLIR T530 42°
- 79307-0101; FLIR T530 42° + 14°
- 79301-0201; FLIR T540 14°
- 79302-0201; FLIR T540 24°
- 79304-0201; FLIR T540 24° + 14°
- 79306-0201; FLIR T540 24° + 14° & 42°
- 79305-0201; FLIR T540 24° + 42°
- 79303-0201; FLIR T540 42°
- 79307-0201; FLIR T540 42° + 14°

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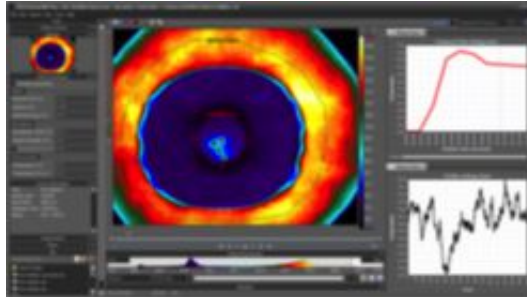
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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

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Main features:

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- Mathematical processing toolbox.
- Image filtering toolbox.
- Radiometric digital detail enhancement (DDE) improves dramatically the understanding of the thermal image, while maintaining radiometric measurement accuracy.
- View, record and store images at high speed.
- Post-processing of fast thermal events.
- Generate time-temperature plots from live images or recorded sequences.
- Advanced start/stop recording conditions.
- Unlimited number of analysis functions (spot, line, area).
- File organizer.
- Zoom and pan allows a closer look.
- Multiple dockable objects for plots and statistics.
- Export images and results to bitmap, video, Excel, MATLAB or CSV formats
- Local scale gain control on measurement - automatically adjusts the contrast in a specific part of the image.

FLIR ResearchIR Max 4 in combination with a FLIR thermal imaging camera is the perfect solution for any R&D or scientific application. It will allow researchers in all fields to make the smallest of temperature differences visible and to thoroughly analyze the thermal process in real-time.

Download

Download your copy of FLIR ResearchIR Max 4 here (evaluation copy only – license key required):

<http://support.flir.com/rir4>

Shipping information

Packaging, type	Cardboard box
List of contents	FLIR ResearchIR Max 4 download card, incl. license key.
Packaging, weight	0.066 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558010457
UPC-12	845188011109
Country of origin	Sweden

Compatible with the following products:

- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case



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Website

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Customer support

<http://support.flir.com>

- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)



P/N: T199013

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 84502-0201; FLIR E53 24°
- 78501-0101; FLIR E75 14°
- 78502-0101; FLIR E75 24°
- 78504-0101; FLIR E75 24° + 14°
- 78506-0101; FLIR E75 24° + 14° & 42°
- 78505-0101; FLIR E75 24° + 42°
- 78503-0101; FLIR E75 42°
- 78507-0101; FLIR E75 42° + 14°
- 78501-0201; FLIR E85 14°
- 78502-0201; FLIR E85 24°
- 78504-0201; FLIR E85 24° + 14°
- 78506-0201; FLIR E85 24° + 14° & 42°
- 78505-0201; FLIR E85 24° + 42°
- 78503-0201; FLIR E85 42°
- 78507-0201; FLIR E85 42° + 14°
- 78501-0301; FLIR E95 14°
- 78502-0301; FLIR E95 24°
- 78504-0301; FLIR E95 24° + 14°
- 78506-0301; FLIR E95 24° + 14° & 42°
- 78505-0301; FLIR E95 24° + 42°
- 78503-0301; FLIR E95 42°
- 78507-0301; FLIR E95 42° + 14°
- 79301-0101; FLIR T530 14°
- 79302-0101; FLIR T530 24°
- 79304-0101; FLIR T530 24° + 14°
- 79306-0101; FLIR T530 24° + 14° & 42°
- 79305-0101; FLIR T530 24° + 42°
- 79303-0101; FLIR T530 42°
- 79307-0101; FLIR T530 42° + 14°
- 79301-0201; FLIR T540 14°
- 79302-0201; FLIR T540 24°
- 79304-0201; FLIR T540 24° + 14°
- 79306-0201; FLIR T540 24° + 14° & 42°
- 79305-0201; FLIR T540 24° + 42°
- 79303-0201; FLIR T540 42°
- 79307-0201; FLIR T540 42° + 14°

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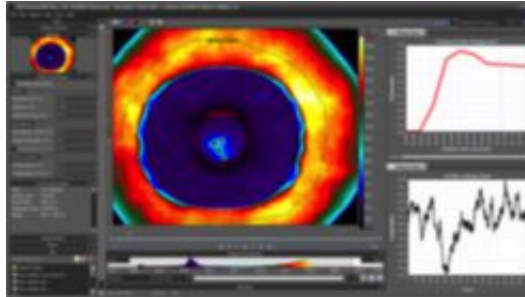
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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description
FLIR ResearchIR Max 4 is aimed at R&D and science professionals who use thermal imaging cameras with a cooled or uncooled detectors. FLIR ResearchIR Max makes the most of a thermal imaging camera, and allows high-speed recording and advanced thermal pattern analysis. FLIR ResearchIR Max is the perfect tool for industrial R&D.
Main features:
<ul style="list-style-type: none"> • Pre/post-recording. • Mathematical processing toolbox. • Image filtering toolbox. • Radiometric digital detail enhancement (DDE) improves dramatically the understanding of the thermal image, while maintaining radiometric measurement accuracy. • View, record and store images at high speed. • Post-processing of fast thermal events. • Generate time-temperature plots from live images or recorded sequences. • Advanced start/stop recording conditions. • Unlimited number of analysis functions (spot, line, area). • File organizer. • Zoom and pan allows a closer look. • Multiple dockable objects for plots and statistics. • Export images and results to bitmap, video, Excel, MATLAB or CSV formats • Local scale gain control on measurement - automatically adjusts the contrast in a specific part of the image.
FLIR ResearchIR Max 4 in combination with a FLIR thermal imaging camera is the perfect solution for any R&D or scientific application. It will allow researchers in all fields to make the smallest of temperature differences visible and to thoroughly analyze the thermal process in real-time.

Download
Download your copy of FLIR ResearchIR Max 4 here (evaluation copy only – license key required):
http://support.flir.com/rir4

Shipping information	
Packaging, type	Cardboard box
List of contents	FLIR ResearchIR Max 4 download card, incl. license key.
Packaging, weight	0.066 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558010488
UPC-12	845188011130
Country of origin	Sweden

Compatible with the following products:

- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case



FLIR ResearchIR Max 4 Upgrade (printed license key)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)



FLIR ResearchIR Max 4 Upgrade (printed license key)

P/N: T199043

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 84502-0201; FLIR E53 24°
- 78501-0101; FLIR E75 14°
- 78502-0101; FLIR E75 24°
- 78504-0101; FLIR E75 24° + 14°
- 78506-0101; FLIR E75 24° + 14° & 42°
- 78505-0101; FLIR E75 24° + 42°
- 78503-0101; FLIR E75 42°
- 78507-0101; FLIR E75 42° + 14°
- 78501-0201; FLIR E85 14°
- 78502-0201; FLIR E85 24°
- 78504-0201; FLIR E85 24° + 14°
- 78506-0201; FLIR E85 24° + 14° & 42°
- 78505-0201; FLIR E85 24° + 42°
- 78503-0201; FLIR E85 42°
- 78507-0201; FLIR E85 42° + 14°
- 78501-0301; FLIR E95 14°
- 78502-0301; FLIR E95 24°
- 78504-0301; FLIR E95 24° + 14°
- 78506-0301; FLIR E95 24° + 14° & 42°
- 78505-0301; FLIR E95 24° + 42°
- 78503-0301; FLIR E95 42°
- 78507-0301; FLIR E95 42° + 14°
- 79301-0101; FLIR T530 14°
- 79302-0101; FLIR T530 24°
- 79304-0101; FLIR T530 24° + 14°
- 79306-0101; FLIR T530 24° + 14° & 42°
- 79305-0101; FLIR T530 24° + 42°
- 79303-0101; FLIR T530 42°
- 79307-0101; FLIR T530 42° + 14°
- 79301-0201; FLIR T540 14°
- 79302-0201; FLIR T540 24°
- 79304-0201; FLIR T540 24° + 14°
- 79306-0201; FLIR T540 24° + 14° & 42°
- 79305-0201; FLIR T540 24° + 42°
- 79303-0201; FLIR T540 42°
- 79307-0201; FLIR T540 42° + 14°

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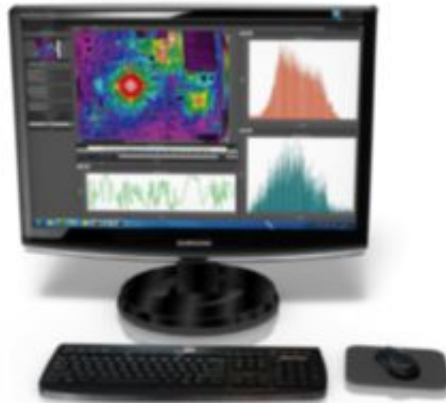
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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
FLIR ResearchIR Standard 4.0 is aimed at the R&D benchtop testing environment for users of uncooled cameras. FLIR ResearchIR Standard provides the core analysis tools needed for rapid testing and assessment of thermal issues.	
Main features:	
<ul style="list-style-type: none"> • View live imagery from the camera • Record snapshots or movies to disk. • Post-processing of fast thermal events. • Generate time-temperature plots from live images or recorded sequences. • Analysis by region (spot, line, area). • File organizer. • Zoom and pan allows a closer look. • Multiple dockable objects for plots and statistics. • Export images and results to bitmap, Excel, or CSV formats 	
FLIR ResearchIR Standard 4 in combination with a FLIR thermal imaging camera is the perfect solution for any benchtop testing application application.	

Shipping information	
List of contents	<ul style="list-style-type: none"> • FLIR ResearchIR Standard download card. • Hardware security device.
Packaging, weight	0.069 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558008638
UPC-12	845188009151
Country of origin	Sweden

Compatible with the following products:

- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)

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Website

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Customer support

<http://support.flir.com>

- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 78502-0101; FLIR E75 24°
- 78504-0101; FLIR E75 24° + 14°
- 78506-0101; FLIR E75 24° + 14° & 42°



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 78505-0101; FLIR E75 24° + 42°
- 78503-0101; FLIR E75 42°
- 78507-0101; FLIR E75 42° + 14°
- 78502-0201; FLIR E85 24°
- 78504-0201; FLIR E85 24° + 14°
- 78506-0201; FLIR E85 24° + 14° & 42°
- 78505-0201; FLIR E85 24° + 42°
- 78503-0201; FLIR E85 42°
- 78507-0201; FLIR E85 42° + 14°
- 78502-0301; FLIR E95 24°
- 78504-0301; FLIR E95 24° + 14°
- 78506-0301; FLIR E95 24° + 14° & 42°
- 78505-0301; FLIR E95 24° + 42°
- 78503-0301; FLIR E95 42°
- 78507-0301; FLIR E95 42° + 14°
- 79302-0101; FLIR T530 24°
- 79306-0101; FLIR T530 24° + 14° & 42°
- 79305-0101; FLIR T530 24° + 42°
- 79304-0101; FLIR T530 24° + 14°
- 79303-0101; FLIR T530 42°
- 79307-0101; FLIR T530 42° + 14°
- 79302-0201; FLIR T540 24°
- 79304-0201; FLIR T540 24° + 14°
- 79306-0201; FLIR T540 24° + 14° & 42°
- 79305-0201; FLIR T540 24° + 42°
- 79303-0201; FLIR T540 42°
- 79307-0201; FLIR T540 42° + 14°

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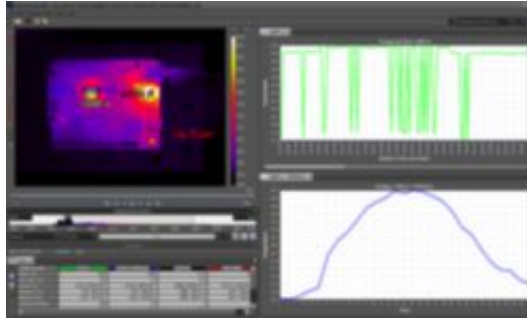
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Website

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Customer support

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General description

FLIR ResearchIR Standard 4 is aimed at the R&D benchtop testing environment for users of uncooled cameras. FLIR ResearchIR Standard provides the core analysis tools needed for rapid testing and assessment of thermal issues.

Main features:

- View live imagery from the camera
- Record snapshots or movies to disk.
- Post-processing of fast thermal events.
- Generate time-temperature plots from live images or recorded sequences.
- Analysis by region (spot, line, area).
- File organizer.
- Zoom and pan allows a closer look.
- Multiple dockable objects for plots and statistics.
- Export images and results to bitmap, Excel, or CSV formats

FLIR ResearchIR Standard 4 in combination with a FLIR thermal imaging camera is the perfect solution for any benchtop testing application application.

Download

Download your copy of FLIR ResearchIR 4 here (evaluation copy only – license key required):

<http://support.flir.com/rir4>

Shipping information

List of contents	FLIR ResearchIR Standard download card, incl. license key.
Packaging, weight	0.069 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558010440
UPC-12	845188011093
Country of origin	Sweden

Compatible with the following products:

- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72002-0202; FLIR C2 Educational Kit

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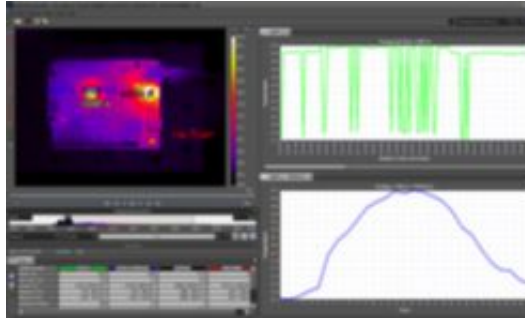
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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description
FLIR ResearchIR Standard 4 is aimed at the R&D benchtop testing environment for users of uncooled cameras. FLIR ResearchIR Standard provides the core analysis tools needed for rapid testing and assessment of thermal issues.
Main features:
<ul style="list-style-type: none"> • View live imagery from the camera • Record snapshots or movies to disk. • Post-processing of fast thermal events. • Generate time-temperature plots from live images or recorded sequences. • Analysis by region (spot, line, area). • File organizer. • Zoom and pan allows a closer look. • Multiple dockable objects for plots and statistics. • Export images and results to bitmap, Excel, or CSV formats
FLIR ResearchIR Standard 4 in combination with a FLIR thermal imaging camera is the perfect solution for any benchtop testing application application.

Download
Download your copy of FLIR ResearchIR 4 here (evaluation copy only – license key required):
http://support.flir.com/rir4

Shipping information	
List of contents	FLIR ResearchIR Standard download card, incl. license key.
Packaging, weight	0.069 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558010471
UPC-12	845188011123
Country of origin	Sweden

Compatible with the following products:

- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)



FLIR ResearchIR Standard 4 Upgrade (printed license key)

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- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

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Website

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Customer support

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General description

FLIR Tools is a software suite specifically designed to provide an easy way to update your camera and create inspection reports.

Key features:

- Report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR).
- Manual IR/Visual Image Grouping
- Import images from your camera to your computer.
- Apply filters when searching for images.
- Search all text in images and text annotations.
- Store the five latest search criteria's.
- Lay out, move, and resize measurement tools on any infrared image.
- Create PDF imagesheets of any images of your choice.
- Add headers, footers, and logos to imagesheets.
- Create PDF reports for images of your choice.
- Add headers, footers, and logos to reports.
- Report editor (report page preview and snap to grid).
- Sort function (by date, groups sorted by path, and groups sorted by date).
- Browse and purchase infrared cameras, software, and accessories in the webshop.
- Software localized to 21 languages.
- Support for MSX (Multi-Spectral Dynamic Imaging) Images
- Support for Sketch Images on both IR and Visual with toggling ON/OFF feature.
- Support for Same FOV (Field of View Match)
- Display of Compass Information in Edit and in Report.
- Display of GPS Information in Edit and in Report.
- Camera update (applies to FLIR Ex, Kxx, Exx and T6xx series only).

Download

This software is a freeware. To download, click the following link:

<http://support.flir.com/tools>

Release notes

Version	5.9
New features in version 5.9	<ul style="list-style-type: none"> • Additional trigger options for FLIR K53, K55, and K65 cameras • Added user account registration and login • New Pleora version support • Various bug fixes
New features in version 5.7	<ul style="list-style-type: none"> • Five modes supported for K65, K55, and K53 cameras. • Support for Kx3 cameras. • Auto gain mode now available for K2 cameras. • Various bug fixes.
New features in version 5.5	<ul style="list-style-type: none"> • Added support for Microsoft Office 2016 (32-bit) for the FLIR Word Reporting module. • Various bug fixes.

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Release notes	
New features in version 5.3	<ul style="list-style-type: none"> Support for the FLIR T1020 and T1040 cameras for import, edit, report creation, and camera update. Support for the FLIR K2 camera for configuration, video streaming, and camera update. Delta (difference) readings are now on one line instead of two.
New features in version 5.2.1	<ul style="list-style-type: none"> Option added to change color distribution mode (histogram equalization, signal linear, temperature linear). Option added to extract photos at their full field of view. Various bug fixes.
New features in version 5.2	<ul style="list-style-type: none"> Support for auto-adjusting a region. Support for zoom. Various bug fixes.
New features in version 5.1	<ul style="list-style-type: none"> Improved import performance. Added support for video recording settings for FLIR Kxx series. Added support for importing video files from FLIR Kxx series. Added support for FLIR C2 camera. Various bug fixes.
New features in version 5.0	<ul style="list-style-type: none"> Local object parameters for measurement tools. Save a report in-process with the ability to edit at a later time. Pull-down menus for text annotations. Variable playback speed for recordings. Show or hide min./max./avg. temperature, and hot/cold markers, for areas and lines. Smoother display for low-resolution images. UltraMax image enhancement. Dropping support for Windows XP. Various bug fixes.
New features in version 4.1	<ul style="list-style-type: none"> Previous/next in Edit mode. Clone in the Library. Extract visual photo from a multispectral image. Import *.mp4, *.seq, and *.csq files from the camera. Playback/edit *.seq and *.csq files. Scale enhancement for the FLIR GF3xx series. Auto resize of thumbnails during importing for the FLIR T6xx series. Grouping/ungrouping now added. Various bug fixes.
New features in version 4.0	<ul style="list-style-type: none"> Support for the new FLIR Ex and Exx series cameras. Interactive quick start guide when connecting a FLIR camera. Improved library view. Support for multispectral images. Support for auto-oriented images. Various bug fixes.
New features in version 3.1	<ul style="list-style-type: none"> Support for FLIR K series cameras. Interactive quick start guide when connecting a FLIR K series camera. Live image streaming from FLIR K series cameras. PC-side configuration of FLIR K series cameras. New report templates for DC images only added. Various bug fixes.
New features in version 3.0	<ul style="list-style-type: none"> Add folder to library. Support for isotherms and color alarms Image description for both IR and DC. Export functionality (*.avi, *.csv). Microsoft Windows 8 (32- and 64-bit) New web installer Various bug fixes.

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Release notes	
New features in version 2.2	<ul style="list-style-type: none"> Camera tab: <ul style="list-style-type: none"> Logging feature in Camera Tab Recording and playback of SEQ files. Various bug fixes.
New features in version 2.1	<ul style="list-style-type: none"> New Text Comment Template Tab: <ul style="list-style-type: none"> Create, Edit and Transfer templates to and from any FLIR Camera. Import and Export of Templates. Support for MSX (Multi-Spectral Dynamic Imaging) Images Support for Sketch Images on both IR and Visual with toggling ON/OFF feature. Support for Same FOV (Field of View Match) Display of Compass Information in Edit and in Report. Display of GPS Information in Edit and in Report. <ul style="list-style-type: none"> Direct Link to Google Maps for GPS Tagged images from Report. Support for 3x5 and 6x5 A-series cameras
New features in version 2.0	<ul style="list-style-type: none"> Camera tab: <ul style="list-style-type: none"> Camera connection with FLIR UVC cameras. Measurement data analysis. Plotting. Snapshot saving with text annotation and plot. Performance improvement for large reports: can now create reports and imagesheets of up to 200 pages. Various bug fixes.
New features in version 1.3	<ul style="list-style-type: none"> Import from ix series cameras. Add and remove a form from a group. Text comments are now saved in the infrared image. The indexing engine can create groups from IR, DC, and text annotations when indexing the paths in the watch folder. Arrow tool in the report toolbar. Reorder pages. Text annotations can now be edited in the report. New report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR). New sample images.
New features in version 1.2 SP1	<ul style="list-style-type: none"> Various bug fixes.
New features in version 1.2	<ul style="list-style-type: none"> Search function: <ul style="list-style-type: none"> Store the five latest search criterias. Search in all texts in images and text annotations. Sort function: <ul style="list-style-type: none"> By date. Groups sorted by by path. Groups sorted by date. Report editor: <ul style="list-style-type: none"> Report page preview. Snap to grid. Various bug fixes.
New features in version 1.1 SP1	<ul style="list-style-type: none"> Extension to the camera update functionality. Various bug fixes
New features in version 1.1	<ul style="list-style-type: none"> Software localized to 21 languages. Camera update. (Exx, T6xx) Option to rotate an infrared image in the infrared editor.

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> Digital download, or CD-ROM
Packaging, weight	0.106 kg (0.23 lb.)



FLIR Tools

P/N: T198584

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Shipping information	
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005279
UPC-12	845188005481
Country of origin	Sweden

System requirements	
Operating system	<ul style="list-style-type: none">• Windows 7, 32-bit• Windows 7, 64-bit• Windows 8, 32-bit• Windows 8, 64-bit• Windows 10, 32-bit• Windows 10, 64-bit

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 73309-0102; FLIR A35 f=9 mm with SC kit
- 83225-0101; FLIR A35 FOV 13 (60 Hz, ver. 2017)
- 83213-0102; FLIR A35 FOV 25 (60 Hz, ver. 2017)
- 83207-0102; FLIR A35 FOV 45 (60 Hz, ver. 2017)
- 83250-0101; FLIR A35 FOV 6.5 (60 Hz, ver. 2017)
- 83209-0102; FLIR A35 FOV 69 (30 Hz, ver. 2017)
- 73413-0102; FLIR A65 f=13 mm with SC kit (30 Hz)
- 73513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 75050-0101; FLIR A65 FOV 12.4 (30 Hz, ver. 2016)
- 75025-0101; FLIR A65 FOV 25 (30 Hz, ver. 2016)
- 75013-0101; FLIR A65 FOV 45 (30 Hz, ver. 2016)
- 75010-0101; FLIR A65 FOV 6.2 (30 Hz, ver. 2016)
- 75007-0101; FLIR A65 FOV 90 (30 Hz, ver. 2016)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens



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Website

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- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72001-0101; FLIR C2
- 72002-0202; FLIR C2 Educational Kit
- 72003-0303; FLIR C3 (incl. Wi-Fi)
- 72003-0404; FLIR C3 (incl. Wi-Fi) Educational Kit

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General description	
<p>Compared to FLIR Tools, FLIR Tools+ has the following features:</p> <ul style="list-style-type: none"> • Radiometric Panorama incl. MSX • Radiometric IR Video Recording • Advanced Reporting <p>FLIR Tools/Tools+ is a software suite specifically designed to provide an easy way to update your camera and create inspection reports.</p>	
<p>FLIR Tools+ main features:</p> <ul style="list-style-type: none"> • Manual IR/Visual Image Grouping • Radiometric Panorama incl. MSX • Radiometric IR Video Recording • Advanced Reporting for Microsoft Office. • Report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR). • Import images from your camera to your computer. • Apply filters when searching for images. • Search all text in images and text annotations. • Store the five latest search criteria's. • Lay out, move, and resize measurement tools on any infrared image. • Create PDF imagesheets of any images of your choice. • Add headers, footers, and logos to imagesheets. • Create PDF reports for images of your choice. • Add headers, footers, and logos to reports. • Report editor (report page preview and snap to grid). • Sort function (by date, groups sorted by path, and groups sorted by date). • Browse and purchase infrared cameras, software, and accessories in the webshop. • Software localized to 21 languages. • Support for MSX (Multi-Spectral Dynamic Imaging) Images • Support for Sketch Images on both IR and Visual with toggling ON/OFF feature. • Support for Same FOV (Field of View Match) • Display of Compass Information in Edit and in Report. • Display of GPS Information in Edit and in Report. • Camera update (applies to FLIR Ex, Kxx, Exx and T6xx series only). 	

Download	
<p>Download a 30-day evaluation version here:</p>	
<p>http://support.flir.com/toolsplus</p>	

Release notes	
Version	5.9
New features in version 5.9	<ul style="list-style-type: none"> • Additional trigger options for FLIR K53, K55, and K65 cameras • Added user account registration and login • New Pleora version support • Various bug fixes
New features in version 5.7	<ul style="list-style-type: none"> • Five modes supported for K65, K55, and K53 cameras. • Support for Kx3 cameras. • Auto gain mode now available for K2 cameras. • Various bug fixes.



FLIR Tools+ (download card incl. license key)

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Customer support

<http://support.flir.com>

Release notes	
New features in version 5.5	<ul style="list-style-type: none"> Added support for Microsoft Office 2016 (32-bit) for the FLIR Word Reporting module. Various bug fixes.
New features in version 5.3	<ul style="list-style-type: none"> Support for the FLIR T1020 and T1040 cameras for import, edit, report creation, and camera update. Support for the FLIR K2 camera for configuration, video streaming, and camera update. Delta (difference) readings are now on one line instead of two.
New features in version 5.2.1	<ul style="list-style-type: none"> Option added to change color distribution mode (histogram equalization, signal linear, temperature linear). "Rapid Report" shortcuts added to simplify reporting using a drag-and-drop operation. Option added to extract photos at their full field of view. Two new templates for express export added (Photo_Large and Thermalx1 Photox2). Various bug fixes.
New features in version 5.2	<ul style="list-style-type: none"> Support for auto-adjusting a region. Support for zoom. Express Microsoft Word reporting (*.docx). Various bug fixes.
New features in version 5.1	<ul style="list-style-type: none"> Improved import performance. Added support for video recording settings for FLIR Kxx series. Added support for importing video files from FLIR Kxx series. Added support for FLIR C2 camera. Various bug fixes.
New features in version 5.0	<ul style="list-style-type: none"> Local object parameters for measurement tools. Save a report in-process with the ability to edit at a later time. Pull-down menus for text annotations. Variable playback speed for recordings. Show or hide min./max./avg. temperature, and hot/cold markers, for areas and lines. Smoother display for low-resolution images. UltraMax image enhancement. Dropping support for Windows XP. Various bug fixes.
New features in version 4.1	<ul style="list-style-type: none"> Previous/next in Edit mode. Clone in the Library. Extract visual photo from a multispectral image. Import *.mp4, *.seq, and *.csq files from the camera. Playback/edit *.seq and *.csq files. Scale enhancement for the FLIR GF3xx series. Auto resize of thumbnails during importing for the FLIR T6xx series. Grouping/ungrouping now added. Various bug fixes.
New features in version 4.0	<ul style="list-style-type: none"> Support for the new FLIR Ex and Exx series cameras. Interactive quick start guide when connecting a FLIR camera. Improved library view. Support for multispectral images. Support for auto-oriented images. Various bug fixes.
New features in version 3.1	<ul style="list-style-type: none"> Support for FLIR K series cameras. Interactive quick start guide when connecting a FLIR K series camera. Live image streaming from FLIR K series cameras. PC-side configuration of FLIR K series cameras. New report templates for DC images only added. Various bug fixes.



FLIR Tools+ (download card incl. license key)

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Release notes	
New features in version 3.0	<ul style="list-style-type: none">• Add folder to library.• Support for isotherms and color alarms• Image description for both IR and DC.• Export functionality (*.avi, *.csv).• Microsoft Windows 8 (32- and 64-bit)• New web installer• Radiometric panorama with MSX images.• Advanced reports.• Manual grouping/ungrouping of images.• Various bug fixes.
New features in version 2.2	<ul style="list-style-type: none">• Camera tab:<ul style="list-style-type: none">• Logging feature in Camera Tab• Recording and playback of SEQ files.• Various bug fixes.

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• FLIR Tools+ (download card incl. license key)
Packaging, weight	0.059 kg (0.13 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	73325585378 4743254001442 (Estonia plant)
UPC-12	845188005580
Country of origin	Sweden

System requirements	
Operating system	<ul style="list-style-type: none">• Windows 7, 32-bit• Windows 7, 64-bit• Windows 8, 32-bit• Windows 8, 64-bit• Windows 10, 32-bit• Windows 10, 64-bit
Software requirements	<ul style="list-style-type: none">• Office 2007 (32-bit)• Office 2010 (32-bit)• Office 2013 (32-bit)• Office 2016 (32-bit)

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 73309-0102; FLIR A35 f=9 mm with SC kit
- 83225-0101; FLIR A35 FOV 13 (60 Hz, ver. 2017)
- 83213-0102; FLIR A35 FOV 25 (60 Hz, ver. 2017)
- 83207-0102; FLIR A35 FOV 45 (60 Hz, ver. 2017)
- 83250-0101; FLIR A35 FOV 6.5 (60 Hz, ver. 2017)
- 83209-0102; FLIR A35 FOV 69 (30 Hz, ver. 2017)
- 73413-0102; FLIR A65 f=13 mm with SC kit (30 Hz)
- 73513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 75050-0101; FLIR A65 FOV 12.4 (30 Hz, ver. 2016)
- 75025-0101; FLIR A65 FOV 25 (30 Hz, ver. 2016)
- 75013-0101; FLIR A65 FOV 45 (30 Hz, ver. 2016)
- 75010-0101; FLIR A65 FOV 6.2 (30 Hz, ver. 2016)
- 75007-0101; FLIR A65 FOV 90 (30 Hz, ver. 2016)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 84502-0201; FLIR E53 24°
- 78501-0101; FLIR E75 14°
- 78502-0101; FLIR E75 24°
- 78504-0101; FLIR E75 24° + 14°
- 78506-0101; FLIR E75 24° + 14° & 42°
- 78505-0101; FLIR E75 24° + 42°
- 78503-0101; FLIR E75 42°
- 78507-0101; FLIR E75 42° + 14°
- 78501-0201; FLIR E85 14°
- 78502-0201; FLIR E85 24°
- 78504-0201; FLIR E85 24° + 14°
- 78506-0201; FLIR E85 24° + 14° & 42°
- 78505-0201; FLIR E85 24° + 42°
- 78503-0201; FLIR E85 42°
- 78507-0201; FLIR E85 42° + 14°
- 78501-0301; FLIR E95 14°
- 78502-0301; FLIR E95 24°
- 78504-0301; FLIR E95 24° + 14°
- 78506-0301; FLIR E95 24° + 14° & 42°
- 78505-0301; FLIR E95 24° + 42°
- 78503-0301; FLIR E95 42°
- 78507-0301; FLIR E95 42° + 14°
- 63901-0101; FLIR E4
- 63906-0604; FLIR E4 (incl. Wi-Fi)
- 63905-0501; FLIR E5
- 63909-0904; FLIR E5 (incl. Wi-Fi)
- 63902-0202; FLIR E6
- 63907-0704; FLIR E6 (incl. Wi-Fi)
- 63903-0303; FLIR E8
- 63908-0805; FLIR E8 (incl. Wi-Fi)
- 79301-0101; FLIR T530 14°
- 79302-0101; FLIR T530 24°
- 79304-0101; FLIR T530 24° + 14°
- 79306-0101; FLIR T530 24° + 14° & 42°
- 79305-0101; FLIR T530 24° + 42°
- 79303-0101; FLIR T530 42°
- 79307-0101; FLIR T530 42° + 14°
- 79301-0201; FLIR T540 14°
- 79302-0201; FLIR T540 24°
- 79304-0201; FLIR T540 24° + 14°



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 79306-0201; FLIR T540 24° + 14° & 42°
- 79305-0201; FLIR T540 24° + 42°
- 79303-0201; FLIR T540 42°
- 79307-0201; FLIR T540 42° + 14°
- 72001-0101; FLIR C2
- 72002-0202; FLIR C2 Educational Kit
- 72003-0303; FLIR C3 (incl. Wi-Fi)
- 72003-0404; FLIR C3 (incl. Wi-Fi) Educational Kit

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Website

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General description	
Rugged, watertight plastic case for FLIR A3xx, A3xxsc, A6xx and A6xxsc series. Holds all items neatly and securely. The case can be locked with padlocks and features a breather valve to prevent pressure build-up in airplane cargo holds.	

Physical data	
Weight	3.1 kg (6.8 lb.)
Size (L x W x H)	463 x 346 x 172 mm (18.2 x 13.6 x 6.8 in.)
Color	Black

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> Hard transport case
Packaging, weight	3.45 kg (7.6 lb.)
Packaging, size	495 x 370 x 192 mm (19.5 x 14.6 x 7.6 in.)
EAN-13	7332558008331
UPC-12	845188008680
Country of origin	Sweden

Compatible with the following products:

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

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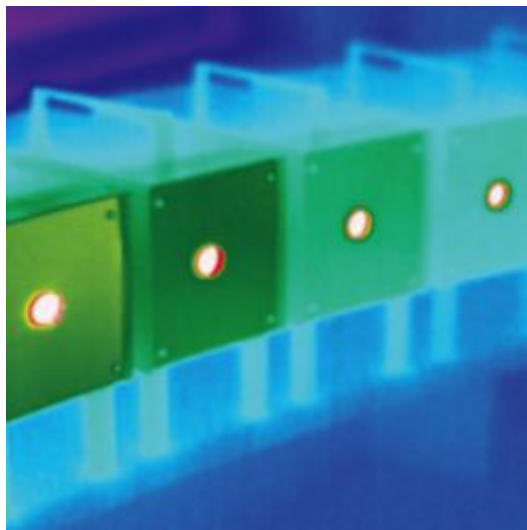
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Website

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Customer support

<http://support.flir.com>



General description	
For high temperature applications the camera can be calibrated for high temperature ranges.	
Measurement	
Optional object temperature range	+300°C to +2000°C (+572°F to +3632°F)

Compatible with the following products:

- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)



High temperature option +300°C to 2000°C (+572°F to 3632°F)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

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Website

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Customer support

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General description

This wide angle lens has a field of view almost double that of the standard 25° lens. Perfect for wide or tall targets or when working in confined areas.

Imaging and optical data

Field of view (FOV)	45° × 34° (55° diagonally)
Minimum focus distance	150 mm (5.91 in.)
Focal length	13.1 mm (0.52 in.)
Spatial resolution (IFOV)	1.30 mrad
Lens identification	Automatic
F-number	1.0
Number of lenses	3 (3 asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	3%

Physical data

Weight	0.209 kg (0.461 lb.)
Size (L × D)	50 × 67 mm (1.97 × 2.64 in.)
Front lens diameter	30 mm (1.18 in.)

Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Lens • Lens case • Front lens cap • Rear lens cap
Packaging, weight	0.430 kg (0.95 lb.)
Packaging, size	172 × 131 × 133 mm (6.8 × 5.2 × 5.2 in.)
EAN-13	7332558004463
UPC-12	845188002688
Country of origin	Sweden

Compatible with the following products:

- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)

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Website

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Customer support

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- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

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Website

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General description	
The standard 25° lens is suitable for the majority of applications.	

Imaging and optical data	
Field of view (FOV)	25° × 19° (31° diagonally)
Minimum focus distance	250 mm (9.84 in.)
Focal length	24.6 mm (0.97 in.)
Spatial resolution (IFOV)	0.69 mrad
Lens identification	Automatic
F-number	1.0
Number of lenses	3 (3 asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	3%

Physical data	
Weight	0.160 kg (0.353 lb.)
Size (L × D)	41 × 67 mm (1.61 × 2.64 in.)
Front lens diameter	32 mm (1.26 in.)

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Lens • Lens case • Front lens cap • Rear lens cap
Packaging, weight	0.380 kg (0.84 lb.)
Packaging, size	174 × 133 × 133 mm (6.9 × 5.2 × 5.2 in.)
EAN-13	7332558004432
UPC-12	845188004439
Country of origin	Sweden

Compatible with the following products:

- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)

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Customer support

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- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

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Website

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Customer support

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General description

The 15° lens is a popular lens accessory and provides 1.7x magnification compared to the standard lens. Ideal for small or distant targets such as overhead power lines.

Imaging and optical data

Field of view (FOV)	15° × 11° (19° diagonally)
Minimum focus distance	500 mm (19.69 in.)
Focal length	41.3 mm (1.63 in.)
Spatial resolution (IFOV)	0.41 mrad
Lens identification	Automatic
F-number	1.0
Number of lenses	3 (3 asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	3%

Physical data

Weight	0.190 kg (0.419 lb.)
Size (L × D)	47 × 67 mm (1.85 × 2.64 in.)
Front lens diameter	52 mm (2.05 in.)

Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Lens • Lens case • Front lens cap • Rear lens cap
Packaging, weight	0.427 kg (0.95 lb.)
Packaging, size	174 × 133 × 133 mm (6.85 × 5.24 × 5.24 in.)
EAN-13	7332558004449
UPC-12	845188002671
Country of origin	Sweden

Compatible with the following products:

- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)



IR lens, f=41.3 mm (15°) with case

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Customer support

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- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

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General description	
This wide angle lens has a field of view approximately three times that of the standard 25° lens. This lens is suitable for extremely cramped situations where the operator can not step farther back from the object.	

Imaging and optical data	
Field of view (FOV)	80° × 64.4° (92.8° diagonal)
Minimum focus distance	65 mm (2.6 in.)
Focal length	6.5 mm (0.26 in.)
Spatial resolution (IFOV)	2.62 mrad
Lens identification	Automatic
F-number	1.0
Number of lenses	5 (5 asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	5%

Physical data	
Weight	0.428 kg (0.944 lb.)
Size (L × D)	126 × 67 mm (4.96 × 2.64 in.)
Front lens diameter	25 mm 0.98 in.)

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Lens • Lens case • Front lens cap • Rear lens cap
Packaging, weight	0.680 kg (1.5 lb.)
Packaging, size	174 × 133 × 133 mm (6.9 × 5.2 × 5.2 in.)
EAN-13	7332558004418
UPC-12	845188004415
Country of origin	Sweden

Compatible with the following products:

- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)



IR lens, f=6.5 mm (80°) with case

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- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

P/N: T198165

Revision

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2017-05-30 15:32 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

The 7° lens is a popular accessory and provides 3.6× magnification compared to the standard lens. Ideal for small or distant targets such as overhead power lines.

Imaging and optical data

Field of view (FOV)	7° × 5.3° (8.7° diagonally)
Minimum focus distance	2.0 m (6.6 ft.)
Focal length	88.9 mm (3.5 in.)
Spatial resolution (IFOV)	0.19 mrad
Lens identification	Automatic
F-number	1.3
Number of lenses	3 (3 asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	3%

Physical data

Weight	0.88 kg (1.94 lb.)
Weight, lens	0.71 kg (1.57 lb.)
Size (L × D)	96 × 126 mm (3.78 × 4.96 in.), excluding support
Front lens diameter	96 mm (3.78 in.)

Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Lens • Lens case • Front lens cap • Rear lens cap • Mounting support • Lens mounting instructions
Packaging, weight	1.748 kg (3.9 lb.)
Packaging, size	385 × 308 × 165 mm (15.2 × 12.1 × 6.5 in.)
EAN-13	7332558005798
UPC-12	845188006006
Country of origin	Sweden

Compatible with the following products:

- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°



IR lens, f=88.9 mm (7°) with case and support for A6xx/A6xxsc

P/N: T198165

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Customer support

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- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

P/N: T199827

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Website

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Customer support

<http://support.flir.com>

**General description**

The Extended Warranty Package covers parts and labour for your IR camera, consumables not included.

FLIR Systems warrants its products to be free from defects caused by faulty material or poor workmanship, for a period specified above. **NO PRODUCT IS WARRANTED TO BE MERCHANTABILITY OR FIT FOR ANY PARTICULAR USE OR APPLICATION.** The warranty is void if the buyer damages the item due to misuse, abuse, modification, processing, or integration with other items. FLIR Systems' maximum liability under this warranty is limited to the obligation to replace or, at its sole option, to credit Buyer's account up to the purchase price.

Download

Contact info can be found at:

<http://support.flir.com>

Compatible with the following products:

- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

P/N: 1910586ACC

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Website

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Customer support

<http://support.flir.com>



General description

This cable is used, when a separate power supply is used (not the one supplied with the camera)

Physical data

Weight	75 g (2.6 oz.)
Cable length	2.0 m (6.6 ft.)
Connector	Pigtailed
Color	Black

Shipping information

Packaging, type	Cardboard box
Packaging, weight	163 g (5.7 oz.)
Packaging, size	170 × 64 × 75 mm (6.69 × 2.52 × 2.95 in.)
EAN-13	7332558006375
UPC-12	845188006723
Country of origin	Sweden

Compatible with the following products:

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

P/N: 1910400

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
Power cord (EU) for the power supply (1910585) used together with the FLIR A/SC3xx and A/SC6xx series.	
The power supply (1910585) itself is discontinued and replaced by a new power supply (which includes multi plugs and another power cable).	

Power system	
AC operation	250 V 16 A

Physical data	
Cable length	2.0 m (6.6 ft.)
Color	Black

Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009253
UPC-12	845188009786
Country of origin	Sweden

Compatible with the following products:

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

P/N: 1910402

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Website

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Customer support

<http://support.flir.com>



General description	
Power cord (UK) for the power supply (1910585) used together with the FLIR A/SC3xx and A/SC6xx series.	
The power supply (1910585) itself is discontinued and replaced by a new power supply (which includes multi plugs and another power cable).	

Power system	
AC operation	250 V 13 A

Physical data	
Cable length	2.0 m (6.6 ft.)
Color	Black

Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009277
UPC-12	845188009809
Country of origin	Sweden

Compatible with the following products:

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

P/N: 1910401

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Customer support

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General description	
Power cord (US) for the power supply (1910585) used together with the FLIR A/SC3xx and A/SC6xx series.	
The power supply (1910585) itself is discontinued and replaced by a new power supply (which includes multi plugs and another power cable).	

Power system	
AC operation	125 V 15 A

Physical data	
Cable length	2.0 m (6.6 ft.)
Color	Black

Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009260
UPC-12	845188009793
Country of origin	Sweden

Compatible with the following products:

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

P/N: T910922

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Website

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Customer support

<http://support.flir.com>



General description	
Power supply, incl. multi plugs	
Power system	
AC operation	100–240 VAC, 50/60 Hz, 12 VDC out
Power	2000 mA at 12 VDC
Physical data	
Size (L × W × H)	81 × 47 × 34 mm (3.2 × 1.9 × 1.3 in.)
Cable length	1.5 m (4.9 ft.)
Color	Black
Shipping information	
List of contents	<ul style="list-style-type: none"> • Power supply including cable • EU plug • UK plug • US plug • AU plug
EAN-13	7332558009284
UPC-12	845188009816
Country of origin	Sweden

Compatible with the following products:

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

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Website

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Customer support

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General description	
<p>The ThermoVision LabVIEW Toolkit is a set of VIs (virtual instruments) for cameras that support alarms, measurement functions, and I/O functionality.</p> <p>Through LabVIEW, you can use these VIs as sub-VIs to manage communications with a FLIR IR camera in digital mode.</p> <p>You can also generate true temperature images from images acquired through LabVIEW, and can use the LabVIEW IR Measurement and Display tools to analyze the temperatures of imaged objects.</p>	
<p>Key features:</p> <ul style="list-style-type: none"> • Set up communications between LabVIEW VI and a FLIR IR camera • Capture and collect images via FireWire or Ethernet interfaces • Adjust the camera configuration parameters and focus as you view a live image • Control the camera calibration • Send any other camera command to the camera • Generate a true temperature image from a 16-bit image acquired using the camera's FireWire or Ethernet interfaces • Close communications to the IR camera 	
<p>Users with licenses for the previous version can download a free upgrade via the following link: http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=63</p>	
<p>Note: Only supports National Instrument 32-bit Labview</p>	

Release notes	
Version	3.3
New features	<ul style="list-style-type: none"> • Windows 7 32- and 64-bit support • Support for FLIR A615 and FLIR SC6X5 (including windowing) • Support for windowing in FLIR SC660 • Various bug fixes • New example VIs

Shipping information	
Packaging, type	Cardboard box
Packaging, weight	0.133 kg (0.3 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005187
UPC-12	845188005399
Country of origin	Sweden

Compatible with the following products:

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)

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Website

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Customer support

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- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description
ThermoVision™ System Developers Kit
Key features:
<ul style="list-style-type: none"> • Supports communication and broadcasting via FireWire™, Ethernet, and USB interfaces. • Gives the user full control of the camera. • Allows the user to set alarm conditions and measurement functions in the camera • Allows the user to define I/O functionality (FLIR A series). • Based on ActiveX technology. • Supports acquisition of images through FireWire™, Ethernet, and USB interfaces. • Reads from and writes to file in FLIR Systems' proprietary file format and writes to files in FLIR Systems' open floating point format (*.fpf). • Converts 16-bit absolute pixels into temperature pixels and several intermediate types of pixels formats, for maximum user flexibility. Applies to all camera models with temperature measurement capabilities. • Allows 16-bit temperature linear outputs from FLIR A series cameras. • Includes method that allows using individual emissivity value correction on any single pixel or condensed measuring value – e.g. average, minimum etc. • Supports conditional recording to file through FireWire™, Ethernet, and USB interfaces.
Users with licenses for the previous version can download a free upgrade via the following link: http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=62

Release notes	
Version	ThermoVision 2.6 SP2
New features	<ul style="list-style-type: none"> • --- News in SP2: • Support for FLIR GF3XX series • Support for windowing in FLIR A615 and FLIR SC6x5 • Support for windowing in FLIR SC6x0 • Various bug fixes

Shipping information	
Packaging, type	Cardboard box
Packaging, weight	0.132 kg (0.3 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005293
UPC-12	845188005504
Country of origin	Sweden

Compatible with the following products:

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310



P/N: T198567

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Website

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Customer support

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- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

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Website

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Customer support

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General description

This cable is used to connect the infrared camera with a computer, using the USB protocol.

Physical data

Weight	60 g (2.1 oz.)
Cable length	1.8 m (5.9 ft.)
Connector	Standard USB-A to USB Mini-B

Shipping information

Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558003428
UPC-12	845188002176
Country of origin	Sweden

Compatible with the following products:

- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case

P/N: 1910423

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- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 74902-0101; FLIR GFx320 14.5° fixed lens
- 74902-0102; FLIR GFx320 24° fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72203-0411; FLIR K33
- 72203-0511; FLIR K53
- 72201-0106; FLIR K45
- 72201-0206; FLIR K55
- 72202-0303; FLIR K65

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Accessories for FLIR AX series

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P/N: T129259ACC

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>**General description**

Cable M12 to pigtail

Physical data

Weight	0.42 kg (0.91 lb.)
Cable length	10 m (32.8 ft.)
Connector	M12 to pigtail
Color	Black

Shipping information

Packaging, type	Cardboard box
List of contents	• Cable
Packaging, weight	0.55 kg (1.22 lb.)
Packaging, size	245 × 165 × 85 mm (9.6 × 6.5 × 3.3 in.)
EAN-13	4743254002333
UPC-12	845188012229
Country of origin	Estonia

Compatible with the following products:

- 71201-0101; FLIR AX8 9 Hz

P/N: T129258ACC

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Website

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Customer support

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General description	
Cable M12 to pigtail	

Physical data	
Weight	0.22 kg (0.48 lb.)
Cable length	5 m (16.4 ft.)
Connector	M12 to pigtail
Color	Black

Shipping information	
Packaging, type	Cardboard box
List of contents	• Cable
Packaging, weight	0.35 kg (0.76 lb.)
Packaging, size	245 × 165 × 85 mm (9.6 × 6.5 × 3.3 in.)
EAN-13	4743254002326
UPC-12	845188012212
Country of origin	Estonia

Compatible with the following products:

- 71201-0101; FLIR AX8 9 Hz

P/N: T129886ACC

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>**General description**

Cable M12, FLIR X-Coded to standard X-Coded

Physical data

Weight	0.104 kg (0.23 lb.)
Cable length	2 m (6.6 ft.)
Connector	M12
Color	Black

Shipping information

List of contents	• Cable
Packaging, weight	0.155 kg (0.34 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558012727
UPC-12	845188013943
Country of origin	Estonia

Compatible with the following products:

- 71201-0101; FLIR AX8 9 Hz

P/N: T128391ACC

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>**General description**

Cable, M12 to pigtail, A-coded.

Physical data

Weight	0.085 kg (0.19 lb.)
Cable length	2 m (6.6 ft.)
Connector	M12 to pigtail
Color	Black

Shipping information

List of contents	• Cable
Packaging, weight	0.136 kg (0.30 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	4743254001800
UPC-12	845188009953
Country of origin	Estonia

Compatible with the following products:

- 71201-0101; FLIR AX8 9 Hz

P/N: T198821

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Website

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Customer support

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General description

Aluminum cooling bracket for FLIR AX8. See dimensional drawing for mounting holes.

Physical data

Weight	0.14 kg (0.31 lb.)
Size (L × W × H)	110 × 60 × 12 mm (4.3 × 2.4 × 0.5 in.)
Color	Blue anodizing

Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> Cooling bracket Screws
Packaging, weight	0.240 kg (0.53 lb.)
Packaging, size	157 × 130 × 65 mm (6.2 × 5.1 × 2.6 in.)
EAN-13	4743254002036
UPC-12	845188011161
Country of origin	Sweden

Compatible with the following products:

- 71201-0101; FLIR AX8 9 Hz

P/N: T129257ACC

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

General description	
Ethernet cable, M12 to RJ45, X-coded.	

Physical data	
Weight	0.43 kg (0.94 lb.)
Cable length	10 m (32.8 ft.)
Connector	M12 to RJ45
Color	Black

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">Cable
Packaging, weight	0.56 kg (1.23 lb.)
Packaging, size	245 × 165 × 85 mm (9.6 × 6.5 × 3.3 in.)
EAN-13	4743254002319
UPC-12	845188012205
Country of origin	Estonia

Compatible with the following products:

- 71201-0101; FLIR AX8 9 Hz

P/N: T128390ACC

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>**General description**

Ethernet cable, M12 to RJ45, X-coded.

Physical data

Weight	0.089 kg (0.20 lb.)
Cable length	2 m (6.6 ft.)
Connector	M12 to RJ45
Color	Black

Shipping information

List of contents	• Cable
Packaging, weight	0.14 kg (0.31 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	4743254001794
UPC-12	845188009946
Country of origin	Estonia

Compatible with the following products:

- 71201-0101; FLIR AX8 9 Hz

P/N: T129256ACC

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>**General description**

Ethernet cable, M12 to RJ45, X-coded.

Physical data

Weight	0.22 kg (0.48 lb.)
Cable length	5 m (16.4 ft.)
Connector	M12 to RJ45
Color	Black

Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">Cable
Packaging, weight	0.35 kg (0.78 lb.)
Packaging, size	245 × 165 × 85 mm (9.6 × 6.5 × 3.3 in.)
EAN-13	4743254002302
UPC-12	845188012199
Country of origin	Estonia

Compatible with the following products:

- 71201-0101; FLIR AX8 9 Hz

P/N: 71200-0002

Revision

47918

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Website

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Customer support

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General description

The FLIR AX8 accessory starter kit consists of the following items:

- T128390ACC, Ethernet cable, M12 to RJ45
- T199163, Front mounting plate kit
- T128775ACC, Rear mounting plate kit
- T199507, Accessory kit, Gigabit PoE injector 15 W
- T128391ACC, Cable, M12 to pigtail

For full technical data, see the datasheet for each item.

Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Ethernet cable, M12 to RJ45 • Front mounting plate kit • Rear mounting plate kit • PoE injector and Cable kit • Cable, M12 to pigtail
Packaging, weight	1.56 kg (1.72 lb.)
Packaging, size	380 × 160 × 310 mm (11.0 × 6.3 × 12.2 in.)
EAN-13	4743254002296
UPC-12	845188012106
Country of origin	Estonia

Compatible with the following products:

- 71201-0101; FLIR AX8 9 Hz

P/N: T199163

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
Front mounting plate kit for mounting a FLIR AX8 camera. Includes cooling bracket.	
Physical data	
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Front mounting plate • Cooling bracket • Screws
Packaging, weight	0.269 kg (0.59 lb.)
Packaging, size	183 × 136 × 63 mm (7.2 × 5.4 × 2.5 in.)
EAN-13	4743254002135
UPC-12	845188011659
Country of origin	Sweden x

Compatible with the following products:

- 71201-0101; FLIR AX8 9 Hz

P/N: T130086

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39004

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Part number	MT-29125
Model	MIO-AX8-1
Compatible FLIR camera model	AX8
General description	The MoviTHERM MIO series intelligent I/O solutions are designed to turn FLIR cameras instantly into a complete remote monitoring system. Easy to set up, easy to configure. The quick and easy way to your thermal imaging solution.
Key features	<ul style="list-style-type: none"> • Compatible with FLIR AX8 cameras • Monitor one camera • Configure alarms via the built-in web server • Digital outputs (24 V DC) • 4-20 mA outputs • Ethernet connectivity
Typical applications	<ul style="list-style-type: none"> • Critical vessel monitoring • Condition monitoring • Process monitoring • Early fire detection
Maximum cameras supported	1
Ethernet connection	100Base-T
Communication protocol	Modbus TCP/IP
4-20 mA transmitter channels	2 channels, loop powered, isolated
Digital output channels	2
Digital output current	0.5 A per channel, 1.5 A all channels
Digital output voltage	10–30 V DC
Power supply voltage	24 V DC
Maximum power consumption	3 W
Dimensions (L × W × H)	145 mm × 90 mm × 40 mm (5.7 in. × 3.6 in. × 1.6 in.)
Weight	0.23 kg (0.5 lb.)
Enclosure material	ABS

Shipping information	
Packaging type	Cardboard box
List of contents	MoviTHERM MIO-AX8-1 unit (DIN rail mountable), manual on USB drive
Packaging weight	0.3 kg (0.66 lb.)
Packaging size (L × W × H)	181 mm × 113 mm × 50 mm (7.13 in. × 4.4 in. × 1.99 in.)
Country of origin	USA

Compatible with the following products:



MIO-AX8-1

P/N: T130086

- 71201-0101; FLIR AX8 9 Hz

Revision

39004

Last modified

2016-12-14 10:06 UTC+1

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Website

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P/N: T130087

Revision

39002

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2016-12-14 09:58 UTC+1

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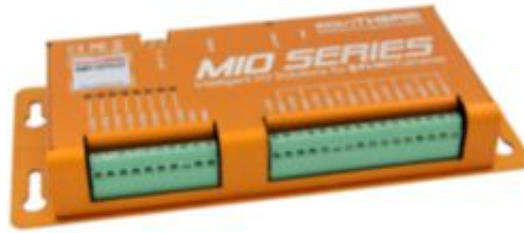
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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Part number	MT-29225
Model	MIO-AX8-7
Compatible FLIR camera model	AX8
General description	The MoviTHERM MIO series intelligent I/O solutions are designed to turn FLIR cameras instantly into a complete remote monitoring system. Easy to set up, easy to configure. The quick and easy way to your thermal imaging solution.
Key features	<ul style="list-style-type: none"> • Compatible with FLIR AX8 cameras • Monitor up to seven cameras • Configure alarms via the built-in web server • Digital outputs (24 V DC) • 4-20 mA outputs • Ethernet connectivity
Typical applications	<ul style="list-style-type: none"> • Critical vessel monitoring • Condition monitoring • Process monitoring • Early fire detection
Maximum cameras supported	7
Ethernet connection	100Base-T
Communication protocol	Modbus TCP/IP
4-20 mA transmitter channels	8 channels, loop powered, isolated
Digital output channels	8
Digital output current	0.5 A per channel, 1.5 A all channels
Digital output voltage	10–30 V DC
Power supply voltage	24 V DC
Maximum power consumption	7 W
Dimensions (L × W × H)	223 mm × 99 mm × 31 mm (8.8 in. × 3.9 in. × 1.2 in.)
Weight	0.32 kg (0.7 lb.)
Enclosure material	Anodized aluminum

Shipping information	
Packaging type	Cardboard box
List of contents	MoviTHERM MIO-AX8-7 unit, DIN rail adapter clip, manual on USB drive
Packaging weight	0.38 kg (0.84 lb.)
Packaging size (L × W × H)	226 mm × 105 mm × 35 mm (8.88 in. × 4.13 in. × 1.38 in.)
Country of origin	USA

Compatible with the following products:

- 71201-0101; FLIR AX8 9 Hz

P/N: T199342

Revision

42932

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>**General description**

Adjustable one-ball joint mounting bracket kit for mounting the FLIR AX8 camera.

Physical data

Weight	0.370 kg (0.81 lb.)
Color	Black

Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• One-ball joint mounting bracket• Cooling plate• Screws
EAN-13	4743254002371
UPC-12	845188012434
Country of origin	Estonia

Compatible with the following products:

- 71201-0101; FLIR AX8 9 Hz

P/N: T199343

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

Power supply, power over Ethernet (PoE) injector.

Power system

DC operation

- Input: 9–36 VDC
- Output: 48 VDC/0.35 A

Physical data

Shipping information

Packaging, type	Cardboard box
List of contents	• PoE injector
EAN-13	4743254002388
UPC-12	845188012441
Country of origin	Estonia

Compatible with the following products:

- 71201-0101; FLIR AX8 9 Hz

P/N: T128775ACC

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>**General description**

Rear mounting plate kit for mounting a FLIR AX8 camera.

Physical data**Shipping information**

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Rear mounting plate• Screws
Packaging, weight	0.097 kg (0.21 lb.)
Packaging, size	170 × 64 × 75 mm (6.7 × 2.5 × 3.0 in.)
EAN-13	4743254002142
UPC-12	845188011666
Country of origin	Sweden

Compatible with the following products:

- 71201-0101; FLIR AX8 9 Hz

P/N: T199341

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Website

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Customer support

<http://support.flir.com>



General description	
Adjustable two-ball joint mounting bracket kit for mounting the FLIR AX8 camera.	
Physical data	
Weight	0.45 kg (0.99 lb.)
Shipping information	
List of contents	<ul style="list-style-type: none"> Adjustable two-ball joint mounting bracket Cooling plate Screws
EAN-13	4743254002364
UPC-12	845188012427
Country of origin	Estonia

Compatible with the following products:

- 71201-0101; FLIR AX8 9 Hz

P/N: T130169

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Website

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Customer support

<http://support.flir.com>



Model	Thermovision CM
Compatible FLIR camera models	FLIR AX8, FLIR A310
General description	The ThermoVision CM consists of a robust, rugged, and reliable computer with all required software pre-installed and pre-licensed
Typical applications	<ul style="list-style-type: none"> Critical vessel monitoring Condition monitoring Process monitoring

Included software	
Operating system	Windows 7 embedded
Video management system (VMS)	Ethiris VMS 8.0
Maximum cameras supported	4
SCADA/PSIM	WideQuick 7.2
Maximum number of tags	256

System specification	
CPU	Intel Quad-Core J1900
System memory	8 GB
Solid state drive	32 GB for OS, Ethiris VMS, and WideQuick
Video disk storage	2 TB
LAN	2 × GbE RJ45
USB	2 × USB 3.0
Display output	1 × HDMI, 1 × VGA
Audio	1 × line out

Power system	
Power requirements	12–24 V DC, 40 W
Power unit	External PSU, 100–240 V AC, 50–60 Hz, 40 W

Environmental data	
Operation temperature	5–40°C (41–104°F)
Operation humidity	10–90%

Physical data	
Form factor	Desktop model
Dimensions	216 mm × 260 mm × 52 mm (8.50 in. × 10.24 in. × 2.05 in.)
Weight	2.70 kg (5.95 lb.)

Shipping information	
Packaging type	Cardboard box



ThermoVision CM, max. 4 cameras

P/N: T130169

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Shipping information	
List of contents	T130169 unit, quick start guide, power supply, Schuko power cable, network cable
Packaging weight	4.00 kg (8.82 lb.)
Packaging size	360 mm × 295 mm × 133 mm (14.17 in. × 11.61 in. × 5.23 in.)
Country of origin	Sweden

Compatible with the following products:

- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 71001-1103; FLIR A310 ex 25°
- 71001-1104; FLIR A310 ex 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 71201-0101; FLIR AX8 9 Hz

P/N: T130170

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Website

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Customer support

<http://support.flir.com>



Model	FLIR ThermoVision CM
Compatible FLIR camera models	FLIR AX8, FLIR A310
General description	The ThermoVision CM consists of a robust, rugged, and reliable computer with all required software pre-installed and pre-licensed
Typical applications	<ul style="list-style-type: none"> Critical vessel monitoring Condition monitoring Process monitoring

Included software	
Operating system	Windows 7 embedded
Video management system (VMS)	Ethiris VMS 8.0
Maximum cameras supported	9
SCADA/PSIM	WideQuick 7.2
Maximum number of tags	512

System specification	
CPU	Intel Quad-Core J1900
System memory	8 GB
Solid state drive	32 GB for OS, Ethiris VMS, and WideQuick
Video disk storage	2 TB
LAN	2 × GbE RJ45
USB	2 × USB 3.0
Display output	1 × HDMI, 1 × VGA
Audio	1 × line out

Power system	
Power requirements	12–24 V DC, 40 W
Power unit	External PSU, 100–240 V AC, 50–60 Hz, 40 W

Environmental data	
Operation temperature	5–40°C (41–104°F)
Operation humidity	10–90%

Physical data	
Form factor	Desktop model
Dimensions	216 mm × 260 mm × 52 mm (8.50 in. × 10.24 in. × 2.05 in.)
Weight	2.70 kg (5.95 lb.)

Shipping information	
Packaging type	Cardboard box



ThermoVision CM, max. 9 cameras

P/N: T130170

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Customer support

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Shipping information	
List of contents	T130170 unit, quick start guide, power supply, Schuko power cable, network cable
Packaging weight	4.00 kg (8.82 lb.)
Packaging size	360 mm × 295 mm × 133 mm (14.17 in. × 11.61 in. × 5.23 in.)
Country of origin	Sweden

Compatible with the following products:

- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 71001-1103; FLIR A310 ex 25°
- 71001-1104; FLIR A310 ex 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 71201-0101; FLIR AX8 9 Hz

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Accessories for FLIR Ax5 series

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P/N: T198349

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General description	
Adapter for connecting a tripod.	

Physical data	
Size (L x W x H)	55 x 34 x 9 mm (2.2 x 1.3 x 0.4 in.)
Color	Black

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> Base support Four screws (plus six extra)
Packaging, weight	0.112 kg (0.25 lb.)
Packaging, size	170 x 64 x 75 mm (6.7 x 2.5 x 3.0 in.)
EAN-13	7332558005897 4743254001879 (Estonia plant)
UPC-12	845188006082
Country of origin	Sweden

Compatible with the following products:

- 73309-0102; FLIR A35 f=9 mm with SC kit
- 83225-0101; FLIR A35 FOV 13 (60 Hz, ver. 2017)
- 83213-0102; FLIR A35 FOV 25 (60 Hz, ver. 2017)
- 83207-0102; FLIR A35 FOV 45 (60 Hz, ver. 2017)
- 83250-0101; FLIR A35 FOV 6.5 (60 Hz, ver. 2017)
- 83209-0102; FLIR A35 FOV 69 (30 Hz, ver. 2017)
- 73413-0102; FLIR A65 f=13 mm with SC kit (30 Hz)
- 73513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 75050-0101; FLIR A65 FOV 12.4 (30 Hz, ver. 2016)
- 75025-0101; FLIR A65 FOV 25 (30 Hz, ver. 2016)
- 75013-0101; FLIR A65 FOV 45 (30 Hz, ver. 2016)
- 75010-0101; FLIR A65 FOV 6.2 (30 Hz, ver. 2016)
- 75007-0101; FLIR A65 FOV 90 (30 Hz, ver. 2016)

P/N: T198348

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General description

Cable kit consisting of three power cables (UK,EU,US).

Physical data

Cable length	1.5 m (4.9 ft.)
Color	Black

Shipping information

List of contents	<ul style="list-style-type: none"> • Power cable, UK • Power cable, EU • Power cable, US
EAN-13	7332558009475 4743254001848 (Estonia plant)
UPC-12	845188010058
Country of origin	Sweden

Compatible with the following products:

- 73309-0102; FLIR A35 f=9 mm with SC kit
- 83225-0101; FLIR A35 FOV 13 (60 Hz, ver. 2017)
- 83213-0102; FLIR A35 FOV 25 (60 Hz, ver. 2017)
- 83207-0102; FLIR A35 FOV 45 (60 Hz, ver. 2017)
- 83250-0101; FLIR A35 FOV 6.5 (60 Hz, ver. 2017)
- 83209-0102; FLIR A35 FOV 69 (30 Hz, ver. 2017)
- 73413-0102; FLIR A65 f=13 mm with SC kit (30 Hz)
- 73513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 75050-0101; FLIR A65 FOV 12.4 (30 Hz, ver. 2016)
- 75025-0101; FLIR A65 FOV 25 (30 Hz, ver. 2016)
- 75013-0101; FLIR A65 FOV 45 (30 Hz, ver. 2016)
- 75010-0101; FLIR A65 FOV 6.2 (30 Hz, ver. 2016)
- 75007-0101; FLIR A65 FOV 90 (30 Hz, ver. 2016)

P/N: T127605ACC

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General description	
Cable to access signals in M12 connector, pigtail.	

Physical data	
Cable length	3 m (9.8 ft.)
Connector	M12 to pigtail
Color	Black

Shipping information	
Packaging, type	Cardboard box
List of contents	• Cable
Packaging, weight	416 g (14.7 oz.)
Packaging, size	243 × 165 × 82 mm (9.6 × 6.5 × 3.2 in.)
EAN-13	7332558006344
UPC-12	845188006693
Country of origin	Sweden

Compatible with the following products:

- 73309-0102; FLIR A35 f=9 mm with SC kit
- 83225-0101; FLIR A35 FOV 13 (60 Hz, ver. 2017)
- 83213-0102; FLIR A35 FOV 25 (60 Hz, ver. 2017)
- 83207-0102; FLIR A35 FOV 45 (60 Hz, ver. 2017)
- 83250-0101; FLIR A35 FOV 6.5 (60 Hz, ver. 2017)
- 83209-0102; FLIR A35 FOV 69 (30 Hz, ver. 2017)
- 73413-0102; FLIR A65 f=13 mm with SC kit (30 Hz)
- 73513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 75050-0101; FLIR A65 FOV 12.4 (30 Hz, ver. 2016)
- 75025-0101; FLIR A65 FOV 25 (30 Hz, ver. 2016)
- 75013-0101; FLIR A65 FOV 45 (30 Hz, ver. 2016)
- 75010-0101; FLIR A65 FOV 6.2 (30 Hz, ver. 2016)
- 75007-0101; FLIR A65 FOV 90 (30 Hz, ver. 2016)

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Website

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General description	
Cable to synchronize two cameras, M12 connectors in both ends.	

Physical data	
Cable length	2 m (6.6 ft.)
Connector	M12 to M12
Color	Black

Shipping information	
Packaging, type	Cardboard box
List of contents	• Cable
Packaging, weight	252 g (8.9 oz.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558006351
UPC-12	845188006709
Country of origin	Sweden

Compatible with the following products:

- 73309-0102; FLIR A35 f=9 mm with SC kit
- 83225-0101; FLIR A35 FOV 13 (60 Hz, ver. 2017)
- 83213-0102; FLIR A35 FOV 25 (60 Hz, ver. 2017)
- 83207-0102; FLIR A35 FOV 45 (60 Hz, ver. 2017)
- 83250-0101; FLIR A35 FOV 6.5 (60 Hz, ver. 2017)
- 83209-0102; FLIR A35 FOV 69 (30 Hz, ver. 2017)
- 73413-0102; FLIR A65 f=13 mm with SC kit (30 Hz)
- 73513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 75050-0101; FLIR A65 FOV 12.4 (30 Hz, ver. 2016)
- 75025-0101; FLIR A65 FOV 25 (30 Hz, ver. 2016)
- 75013-0101; FLIR A65 FOV 45 (30 Hz, ver. 2016)
- 75010-0101; FLIR A65 FOV 6.2 (30 Hz, ver. 2016)
- 75007-0101; FLIR A65 FOV 90 (30 Hz, ver. 2016)

P/N: T951004ACC

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Website

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Customer support

<http://support.flir.com>



General description	
This cable is used to connect the infrared camera to Ethernet.	

Physical data	
Weight	80 g (2.8 oz.)
Cable length	2.0 m (6.6 ft.)
Connector	RJ-45 to RJ-45
Cable type	CAT-6

Shipping information	
Packaging, type	Cardboard box
Packaging, weight	130 g (4.6 oz.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558006320
UPC-12	845188006679
Country of origin	Sweden

Compatible with the following products:

- 73309-0102; FLIR A35 f=9 mm with SC kit
- 83225-0101; FLIR A35 FOV 13 (60 Hz, ver. 2017)
- 83213-0102; FLIR A35 FOV 25 (60 Hz, ver. 2017)
- 83207-0102; FLIR A35 FOV 45 (60 Hz, ver. 2017)
- 83250-0101; FLIR A35 FOV 6.5 (60 Hz, ver. 2017)
- 83209-0102; FLIR A35 FOV 69 (30 Hz, ver. 2017)
- 73413-0102; FLIR A65 f=13 mm with SC kit (30 Hz)
- 73513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 75050-0101; FLIR A65 FOV 12.4 (30 Hz, ver. 2016)
- 75025-0101; FLIR A65 FOV 25 (30 Hz, ver. 2016)
- 75013-0101; FLIR A65 FOV 45 (30 Hz, ver. 2016)
- 75010-0101; FLIR A65 FOV 6.2 (30 Hz, ver. 2016)
- 75007-0101; FLIR A65 FOV 90 (30 Hz, ver. 2016)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°



Ethernet cable CAT-6, 2m/6.6 ft.

P/N: T951004ACC

Revision

42932

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2017-05-30 15:32 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

P/N: T199233

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
The FLIR Atlas SDK for .NET is a software development kit that enables developers to create applications. Supported by help files and sample code, developers can add functionality or collaborate with other FLIR products to get the result they want in their application.	
Key features:	
<ul style="list-style-type: none"> • Supports communication and streaming using FireWire, Gigabit, RTSP, and USB interfaces. • Gives the user full control of the camera. • Supports recording of images using FireWire, Gigabit, RTSP, and USB interfaces. • Converts 16-bit signal pixels into temperature data, for maximum user flexibility. • Allows 16-bit temperature linear, histogram, and signal outputs. 	
Release notes	
Version	3.1
Shipping information	
Packaging, type	Cardboard box
List of contents	Download card with printed license key
Packaging, weight	0.056 kg (0.123 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558011126
UPC-12	845188012014
Country of origin	Sweden
System requirements	
Operating system	<ul style="list-style-type: none"> • Windows 7 (32- and 64-bit) • Windows 8 (32- and 64-bit) • Windows 10 (32- and 64-bit)

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case

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Website

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Customer support

<http://support.flir.com>

- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 73309-0102; FLIR A35 f=9 mm with SC kit
- 83225-0101; FLIR A35 FOV 13 (60 Hz, ver. 2017)
- 83213-0102; FLIR A35 FOV 25 (60 Hz, ver. 2017)
- 83207-0102; FLIR A35 FOV 45 (60 Hz, ver. 2017)
- 83250-0101; FLIR A35 FOV 6.5 (60 Hz, ver. 2017)
- 83209-0102; FLIR A35 FOV 69 (30 Hz, ver. 2017)
- 73413-0102; FLIR A65 f=13 mm with SC kit (30 Hz)
- 73513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 75050-0101; FLIR A65 FOV 12.4 (30 Hz, ver. 2016)
- 75025-0101; FLIR A65 FOV 25 (30 Hz, ver. 2016)
- 75013-0101; FLIR A65 FOV 45 (30 Hz, ver. 2016)
- 75010-0101; FLIR A65 FOV 6.2 (30 Hz, ver. 2016)
- 75007-0101; FLIR A65 FOV 90 (30 Hz, ver. 2016)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°

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Website

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Customer support

<http://support.flir.com>

- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 65702-0102; FLIR GF343 24° Fixed lens
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 71502-0101; FLIR G300 a 14.5° fixed lens
- 71502-0102; FLIR G300 a 24° fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 63901-0101; FLIR E4
- 63906-0604; FLIR E4 (incl. Wi-Fi)
- 63905-0501; FLIR E5
- 63909-0904; FLIR E5 (incl. Wi-Fi)
- 63902-0202; FLIR E6
- 63907-0704; FLIR E6 (incl. Wi-Fi)
- 63903-0303; FLIR E8
- 63908-0805; FLIR E8 (incl. Wi-Fi)
- 72001-0101; FLIR C2
- 72002-0202; FLIR C2 Educational Kit
- 72003-0303; FLIR C3 (incl. Wi-Fi)
- 72003-0404; FLIR C3 (incl. Wi-Fi) Educational Kit

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General description	
The FLIR Atlas SDK for MATLAB is a software development kit that enables developers to create applications. Supported by help files and sample code, developers can add functionality or collaborate with other FLIR products to get the result they want in their application.	
Key features:	
<ul style="list-style-type: none"> • Supports communication and streaming using FireWire, Gigabit, RTSP, and USB interfaces. • Gives the user full control of the camera. • Supports recording of images using FireWire, Gigabit, RTSP, and USB interfaces. • Converts 16-bit signal pixels into temperature data, for maximum user flexibility. • Allows 16-bit temperature linear, histogram, and signal outputs. 	
Release notes	
Version	3.1
Shipping information	
Packaging, type	Cardboard box
List of contents	Download card with printed license key
Packaging, weight	0.056 kg (0.123 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558011133
UPC-12	845188012021
Country of origin	Sweden
System requirements	
Operating system	MATLAB 2015 (32- and 64-bit) and one of the following operating systems: <ul style="list-style-type: none"> • Windows 7 (32- and 64-bit) • Windows 8 (32- and 64-bit) • Windows 10 (32- and 64-bit)

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 73309-0102; FLIR A35 f=9 mm with SC kit
- 83225-0101; FLIR A35 FOV 13 (60 Hz, ver. 2017)
- 83213-0102; FLIR A35 FOV 25 (60 Hz, ver. 2017)
- 83207-0102; FLIR A35 FOV 45 (60 Hz, ver. 2017)
- 83250-0101; FLIR A35 FOV 6.5 (60 Hz, ver. 2017)
- 83209-0102; FLIR A35 FOV 69 (30 Hz, ver. 2017)
- 73413-0102; FLIR A65 f=13 mm with SC kit (30 Hz)
- 73513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 75050-0101; FLIR A65 FOV 12.4 (30 Hz, ver. 2016)
- 75025-0101; FLIR A65 FOV 25 (30 Hz, ver. 2016)
- 75013-0101; FLIR A65 FOV 45 (30 Hz, ver. 2016)
- 75010-0101; FLIR A65 FOV 6.2 (30 Hz, ver. 2016)
- 75007-0101; FLIR A65 FOV 90 (30 Hz, ver. 2016)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 65702-0102; FLIR GF343 24° Fixed lens
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 71502-0101; FLIR G300 a 14.5° fixed lens
- 71502-0102; FLIR G300 a 24° fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 63901-0101; FLIR E4
- 63906-0604; FLIR E4 (incl. Wi-Fi)
- 63905-0501; FLIR E5
- 63909-0904; FLIR E5 (incl. Wi-Fi)
- 63902-0202; FLIR E6
- 63907-0704; FLIR E6 (incl. Wi-Fi)
- 63903-0303; FLIR E8
- 63908-0805; FLIR E8 (incl. Wi-Fi)
- 72001-0101; FLIR C2
- 72002-0202; FLIR C2 Educational Kit
- 72003-0303; FLIR C3 (incl. Wi-Fi)
- 72003-0404; FLIR C3 (incl. Wi-Fi) Educational Kit

P/N: T199356

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42932

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Website

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Customer support

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General description

The FLIR Ax5 accessory starter kit consists of the following items:

- T911183, Gigabit PoE injector 16 W, with multi-plugs
- T127605ACC, Cable M12 Pigtail
- T951004ACC, Ethernet cable CAT6, 2 m/6.6 ft.

For full technical data, see the datasheet for each item.

Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Gigabit PoE injector 16 W, with multi-plugs • Cable M12 Pigtail • Ethernet cable CAT6, 2 m/6.6 ft.
Packaging, weight	1.15 kg (2.53 lb.)
Packaging, size	325 × 170 × 115 mm (12.8 × 6.7 × 4.5 in.)
EAN-13	7332558012390
UPC-12	845188013509
Country of origin	Estonia

Compatible with the following products:

- 73309-0102; FLIR A35 f=9 mm with SC kit
- 83225-0101; FLIR A35 FOV 13 (60 Hz, ver. 2017)
- 83213-0102; FLIR A35 FOV 25 (60 Hz, ver. 2017)
- 83207-0102; FLIR A35 FOV 45 (60 Hz, ver. 2017)
- 83250-0101; FLIR A35 FOV 6.5 (60 Hz, ver. 2017)
- 83209-0102; FLIR A35 FOV 69 (30 Hz, ver. 2017)
- 73413-0102; FLIR A65 f=13 mm with SC kit (30 Hz)
- 73513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 75050-0101; FLIR A65 FOV 12.4 (30 Hz, ver. 2016)
- 75025-0101; FLIR A65 FOV 25 (30 Hz, ver. 2016)
- 75013-0101; FLIR A65 FOV 45 (30 Hz, ver. 2016)
- 75010-0101; FLIR A65 FOV 6.2 (30 Hz, ver. 2016)
- 75007-0101; FLIR A65 FOV 90 (30 Hz, ver. 2016)

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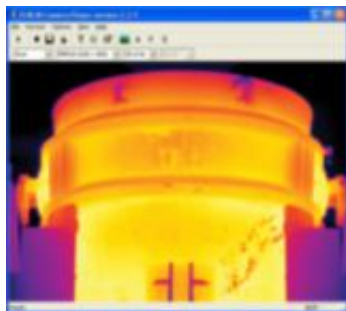
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Website

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General description	
FLIR IR Camera Player is a PC-based remote control and viewer that you can use with cameras from FLIR Systems.	
You can perform one or more of the following with FLIR IR Camera Player:	
<ul style="list-style-type: none"> Record a video stream from the camera. Save a frame from the video stream as a snapshot image (*.bmp). Autofocus, focus far, and focus near. Autoadjust the camera image. Freeze the camera image. Save a camera image in the camera. Change Color palette. Add an image description and a text comment to an image. 	
You connect a camera in one of the following ways:	
<ul style="list-style-type: none"> Ethernet FireWire USB 	
Download	
This software is a freeware. To download, click the following link:	
http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=89	
Release notes	
Version	2.3.3
New features	Main improvements in version 2.3.3: <ul style="list-style-type: none"> Added latest device drivers (1.9.1.0). Various bugfixes Main improvements in version 2.2.7: <ul style="list-style-type: none"> Added support for FLIR Ax5 series.
System requirements	
Operating system	<ul style="list-style-type: none"> Windows XP, 32-bit Windows Vista, 32-bit/64-bit Windows 7, 32-bit/64-bit

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)

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Website

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- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 73309-0102; FLIR A35 f=9 mm with SC kit
- 83225-0101; FLIR A35 FOV 13 (60 Hz, ver. 2017)
- 83213-0102; FLIR A35 FOV 25 (60 Hz, ver. 2017)
- 83207-0102; FLIR A35 FOV 45 (60 Hz, ver. 2017)
- 83250-0101; FLIR A35 FOV 6.5 (60 Hz, ver. 2017)
- 83209-0102; FLIR A35 FOV 69 (30 Hz, ver. 2017)
- 73413-0102; FLIR A65 f=13 mm with SC kit (30 Hz)
- 73513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 75050-0101; FLIR A65 FOV 12.4 (30 Hz, ver. 2016)
- 75025-0101; FLIR A65 FOV 25 (30 Hz, ver. 2016)
- 75013-0101; FLIR A65 FOV 45 (30 Hz, ver. 2016)
- 75010-0101; FLIR A65 FOV 6.2 (30 Hz, ver. 2016)
- 75007-0101; FLIR A65 FOV 90 (30 Hz, ver. 2016)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)



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Revision

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Website

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Customer support

<http://support.flir.com>

- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

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Website

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<http://support.flir.com>



General description
FLIR Tools is a software suite specifically designed to provide an easy way to update your camera and create inspection reports.
Key features:
<ul style="list-style-type: none"> • Report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR). • Manual IR/Visual Image Grouping • Import images from your camera to your computer. • Apply filters when searching for images. • Search all text in images and text annotations. • Store the five latest search criteria's. • Lay out, move, and resize measurement tools on any infrared image. • Create PDF imagesheets of any images of your choice. • Add headers, footers, and logos to imagesheets. • Create PDF reports for images of your choice. • Add headers, footers, and logos to reports. • Report editor (report page preview and snap to grid). • Sort function (by date, groups sorted by path, and groups sorted by date). • Browse and purchase infrared cameras, software, and accessories in the webshop. • Software localized to 21 languages. • Support for MSX (Multi-Spectral Dynamic Imaging) Images • Support for Sketch Images on both IR and Visual with toggling ON/OFF feature. • Support for Same FOV (Field of View Match) • Display of Compass Information in Edit and in Report. • Display of GPS Information in Edit and in Report. • Camera update (applies to FLIR Ex, Kxx, Exx and T6xx series only).

Download
This software is a freeware. To download, click the following link:
http://support.flir.com/tools

Release notes	
Version	5.9
New features in version 5.9	<ul style="list-style-type: none"> • Additional trigger options for FLIR K53, K55, and K65 cameras • Added user account registration and login • New Pleora version support • Various bug fixes
New features in version 5.7	<ul style="list-style-type: none"> • Five modes supported for K65, K55, and K53 cameras. • Support for Kx3 cameras. • Auto gain mode now available for K2 cameras. • Various bug fixes.
New features in version 5.5	<ul style="list-style-type: none"> • Added support for Microsoft Office 2016 (32-bit) for the FLIR Word Reporting module. • Various bug fixes.

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Release notes	
New features in version 5.3	<ul style="list-style-type: none"> Support for the FLIR T1020 and T1040 cameras for import, edit, report creation, and camera update. Support for the FLIR K2 camera for configuration, video streaming, and camera update. Delta (difference) readings are now on one line instead of two.
New features in version 5.2.1	<ul style="list-style-type: none"> Option added to change color distribution mode (histogram equalization, signal linear, temperature linear). Option added to extract photos at their full field of view. Various bug fixes.
New features in version 5.2	<ul style="list-style-type: none"> Support for auto-adjusting a region. Support for zoom. Various bug fixes.
New features in version 5.1	<ul style="list-style-type: none"> Improved import performance. Added support for video recording settings for FLIR Kxx series. Added support for importing video files from FLIR Kxx series. Added support for FLIR C2 camera. Various bug fixes.
New features in version 5.0	<ul style="list-style-type: none"> Local object parameters for measurement tools. Save a report in-process with the ability to edit at a later time. Pull-down menus for text annotations. Variable playback speed for recordings. Show or hide min./max./avg. temperature, and hot/cold markers, for areas and lines. Smoother display for low-resolution images. UltraMax image enhancement. Dropping support for Windows XP. Various bug fixes.
New features in version 4.1	<ul style="list-style-type: none"> Previous/next in Edit mode. Clone in the Library. Extract visual photo from a multispectral image. Import *.mp4, *.seq, and *.csq files from the camera. Playback/edit *.seq and *.csq files. Scale enhancement for the FLIR GF3xx series. Auto resize of thumbnails during importing for the FLIR T6xx series. Grouping/ungrouping now added. Various bug fixes.
New features in version 4.0	<ul style="list-style-type: none"> Support for the new FLIR Ex and Exx series cameras. Interactive quick start guide when connecting a FLIR camera. Improved library view. Support for multispectral images. Support for auto-oriented images. Various bug fixes.
New features in version 3.1	<ul style="list-style-type: none"> Support for FLIR K series cameras. Interactive quick start guide when connecting a FLIR K series camera. Live image streaming from FLIR K series cameras. PC-side configuration of FLIR K series cameras. New report templates for DC images only added. Various bug fixes.
New features in version 3.0	<ul style="list-style-type: none"> Add folder to library. Support for isotherms and color alarms Image description for both IR and DC. Export functionality (*.avi, *.csv). Microsoft Windows 8 (32- and 64-bit) New web installer Various bug fixes.

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Release notes	
New features in version 2.2	<ul style="list-style-type: none"> Camera tab: <ul style="list-style-type: none"> Logging feature in Camera Tab Recording and playback of SEQ files. Various bug fixes.
New features in version 2.1	<ul style="list-style-type: none"> New Text Comment Template Tab: <ul style="list-style-type: none"> Create, Edit and Transfer templates to and from any FLIR Camera. Import and Export of Templates. Support for MSX (Multi-Spectral Dynamic Imaging) Images Support for Sketch Images on both IR and Visual with toggling ON/OFF feature. Support for Same FOV (Field of View Match) Display of Compass Information in Edit and in Report. Display of GPS Information in Edit and in Report. <ul style="list-style-type: none"> Direct Link to Google Maps for GPS Tagged images from Report. Support for 3x5 and 6x5 A-series cameras
New features in version 2.0	<ul style="list-style-type: none"> Camera tab: <ul style="list-style-type: none"> Camera connection with FLIR UVC cameras. Measurement data analysis. Plotting. Snapshot saving with text annotation and plot. Performance improvement for large reports: can now create reports and imagesheets of up to 200 pages. Various bug fixes.
New features in version 1.3	<ul style="list-style-type: none"> Import from ix series cameras. Add and remove a form from a group. Text comments are now saved in the infrared image. The indexing engine can create groups from IR, DC, and text annotations when indexing the paths in the watch folder. Arrow tool in the report toolbar. Reorder pages. Text annotations can now be edited in the report. New report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR). New sample images.
New features in version 1.2 SP1	<ul style="list-style-type: none"> Various bug fixes.
New features in version 1.2	<ul style="list-style-type: none"> Search function: <ul style="list-style-type: none"> Store the five latest search criterias. Search in all texts in images and text annotations. Sort function: <ul style="list-style-type: none"> By date. Groups sorted by by path. Groups sorted by date. Report editor: <ul style="list-style-type: none"> Report page preview. Snap to grid. Various bug fixes.
New features in version 1.1 SP1	<ul style="list-style-type: none"> Extension to the camera update functionality. Various bug fixes
New features in version 1.1	<ul style="list-style-type: none"> Software localized to 21 languages. Camera update. (Exx, T6xx) Option to rotate an infrared image in the infrared editor.

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> Digital download, or CD-ROM
Packaging, weight	0.106 kg (0.23 lb.)



FLIR Tools

P/N: T198584

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>**Shipping information**

Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005279
UPC-12	845188005481
Country of origin	Sweden

System requirements

Operating system	<ul style="list-style-type: none">• Windows 7, 32-bit• Windows 7, 64-bit• Windows 8, 32-bit• Windows 8, 64-bit• Windows 10, 32-bit• Windows 10, 64-bit
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Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 73309-0102; FLIR A35 f=9 mm with SC kit
- 83225-0101; FLIR A35 FOV 13 (60 Hz, ver. 2017)
- 83213-0102; FLIR A35 FOV 25 (60 Hz, ver. 2017)
- 83207-0102; FLIR A35 FOV 45 (60 Hz, ver. 2017)
- 83250-0101; FLIR A35 FOV 6.5 (60 Hz, ver. 2017)
- 83209-0102; FLIR A35 FOV 69 (30 Hz, ver. 2017)
- 73413-0102; FLIR A65 f=13 mm with SC kit (30 Hz)
- 73513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 75050-0101; FLIR A65 FOV 12.4 (30 Hz, ver. 2016)
- 75025-0101; FLIR A65 FOV 25 (30 Hz, ver. 2016)
- 75013-0101; FLIR A65 FOV 45 (30 Hz, ver. 2016)
- 75010-0101; FLIR A65 FOV 6.2 (30 Hz, ver. 2016)
- 75007-0101; FLIR A65 FOV 90 (30 Hz, ver. 2016)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72001-0101; FLIR C2
- 72002-0202; FLIR C2 Educational Kit
- 72003-0303; FLIR C3 (incl. Wi-Fi)
- 72003-0404; FLIR C3 (incl. Wi-Fi) Educational Kit

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General description

Compared to FLIR Tools, FLIR Tools+ has the following features:

- Radiometric Panorama incl. MSX
- Radiometric IR Video Recording
- Advanced Reporting

FLIR Tools/Tools+ is a software suite specifically designed to provide an easy way to update your camera and create inspection reports.

FLIR Tools+ main features:

- Manual IR/Visual Image Grouping
- Radiometric Panorama incl. MSX
- Radiometric IR Video Recording
- Advanced Reporting for Microsoft Office.
- Report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR).
- Import images from your camera to your computer.
- Apply filters when searching for images.
- Search all text in images and text annotations.
- Store the five latest search criteria's.
- Lay out, move, and resize measurement tools on any infrared image.
- Create PDF imagesheets of any images of your choice.
- Add headers, footers, and logos to imagesheets.
- Create PDF reports for images of your choice.
- Add headers, footers, and logos to reports.
- Report editor (report page preview and snap to grid).
- Sort function (by date, groups sorted by path, and groups sorted by date).
- Browse and purchase infrared cameras, software, and accessories in the webshop.
- Software localized to 21 languages.
- Support for MSX (Multi-Spectral Dynamic Imaging) Images
- Support for Sketch Images on both IR and Visual with toggling ON/OFF feature.
- Support for Same FOV (Field of View Match)
- Display of Compass Information in Edit and in Report.
- Display of GPS Information in Edit and in Report.
- Camera update (applies to FLIR Ex, Kxx, Exx and T6xx series only).

Download

Download a 30-day evaluation version here:

<http://support.flir.com/toolsplus>

Release notes

Version	5.9
New features in version 5.9	<ul style="list-style-type: none"> • Additional trigger options for FLIR K53, K55, and K65 cameras • Added user account registration and login • New Pleora version support • Various bug fixes
New features in version 5.7	<ul style="list-style-type: none"> • Five modes supported for K65, K55, and K53 cameras. • Support for Kx3 cameras. • Auto gain mode now available for K2 cameras. • Various bug fixes.



FLIR Tools+ (download card incl. license key)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Release notes	
New features in version 5.5	<ul style="list-style-type: none"> Added support for Microsoft Office 2016 (32-bit) for the FLIR Word Reporting module. Various bug fixes.
New features in version 5.3	<ul style="list-style-type: none"> Support for the FLIR T1020 and T1040 cameras for import, edit, report creation, and camera update. Support for the FLIR K2 camera for configuration, video streaming, and camera update. Delta (difference) readings are now on one line instead of two.
New features in version 5.2.1	<ul style="list-style-type: none"> Option added to change color distribution mode (histogram equalization, signal linear, temperature linear). "Rapid Report" shortcuts added to simplify reporting using a drag-and-drop operation. Option added to extract photos at their full field of view. Two new templates for express export added (Photo_Large and Thermalx1 Photox2). Various bug fixes.
New features in version 5.2	<ul style="list-style-type: none"> Support for auto-adjusting a region. Support for zoom. Express Microsoft Word reporting (*.docx). Various bug fixes.
New features in version 5.1	<ul style="list-style-type: none"> Improved import performance. Added support for video recording settings for FLIR Kxx series. Added support for importing video files from FLIR Kxx series. Added support for FLIR C2 camera. Various bug fixes.
New features in version 5.0	<ul style="list-style-type: none"> Local object parameters for measurement tools. Save a report in-process with the ability to edit at a later time. Pull-down menus for text annotations. Variable playback speed for recordings. Show or hide min./max./avg. temperature, and hot/cold markers, for areas and lines. Smoother display for low-resolution images. UltraMax image enhancement. Dropping support for Windows XP. Various bug fixes.
New features in version 4.1	<ul style="list-style-type: none"> Previous/next in Edit mode. Clone in the Library. Extract visual photo from a multispectral image. Import *.mp4, *.seq, and *.csq files from the camera. Playback/edit *.seq and *.csq files. Scale enhancement for the FLIR GF3xx series. Auto resize of thumbnails during importing for the FLIR T6xx series. Grouping/ungrouping now added. Various bug fixes.
New features in version 4.0	<ul style="list-style-type: none"> Support for the new FLIR Ex and Exx series cameras. Interactive quick start guide when connecting a FLIR camera. Improved library view. Support for multispectral images. Support for auto-oriented images. Various bug fixes.
New features in version 3.1	<ul style="list-style-type: none"> Support for FLIR K series cameras. Interactive quick start guide when connecting a FLIR K series camera. Live image streaming from FLIR K series cameras. PC-side configuration of FLIR K series cameras. New report templates for DC images only added. Various bug fixes.



FLIR Tools+ (download card incl. license key)

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Website

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Customer support

<http://support.flir.com>

Release notes	
New features in version 3.0	<ul style="list-style-type: none"> Add folder to library. Support for isotherms and color alarms Image description for both IR and DC. Export functionality (*.avi, *.csv). Microsoft Windows 8 (32- and 64-bit) New web installer Radiometric panorama with MSX images. Advanced reports. Manual grouping/ungrouping of images. Various bug fixes.
New features in version 2.2	<ul style="list-style-type: none"> Camera tab: <ul style="list-style-type: none"> Logging feature in Camera Tab Recording and playback of SEQ files. Various bug fixes.

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> FLIR Tools+ (download card incl. license key)
Packaging, weight	0.059 kg (0.13 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	73325585378 4743254001442 (Estonia plant)
UPC-12	845188005580
Country of origin	Sweden

System requirements	
Operating system	<ul style="list-style-type: none"> Windows 7, 32-bit Windows 7, 64-bit Windows 8, 32-bit Windows 8, 64-bit Windows 10, 32-bit Windows 10, 64-bit
Software requirements	<ul style="list-style-type: none"> Office 2007 (32-bit) Office 2010 (32-bit) Office 2013 (32-bit) Office 2016 (32-bit)

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 73309-0102; FLIR A35 f=9 mm with SC kit
- 83225-0101; FLIR A35 FOV 13 (60 Hz, ver. 2017)
- 83213-0102; FLIR A35 FOV 25 (60 Hz, ver. 2017)
- 83207-0102; FLIR A35 FOV 45 (60 Hz, ver. 2017)
- 83250-0101; FLIR A35 FOV 6.5 (60 Hz, ver. 2017)
- 83209-0102; FLIR A35 FOV 69 (30 Hz, ver. 2017)
- 73413-0102; FLIR A65 f=13 mm with SC kit (30 Hz)
- 73513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 75050-0101; FLIR A65 FOV 12.4 (30 Hz, ver. 2016)
- 75025-0101; FLIR A65 FOV 25 (30 Hz, ver. 2016)
- 75013-0101; FLIR A65 FOV 45 (30 Hz, ver. 2016)
- 75010-0101; FLIR A65 FOV 6.2 (30 Hz, ver. 2016)
- 75007-0101; FLIR A65 FOV 90 (30 Hz, ver. 2016)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 84502-0201; FLIR E53 24°
- 78501-0101; FLIR E75 14°
- 78502-0101; FLIR E75 24°
- 78504-0101; FLIR E75 24° + 14°
- 78506-0101; FLIR E75 24° + 14° & 42°
- 78505-0101; FLIR E75 24° + 42°
- 78503-0101; FLIR E75 42°
- 78507-0101; FLIR E75 42° + 14°
- 78501-0201; FLIR E85 14°
- 78502-0201; FLIR E85 24°
- 78504-0201; FLIR E85 24° + 14°
- 78506-0201; FLIR E85 24° + 14° & 42°
- 78505-0201; FLIR E85 24° + 42°
- 78503-0201; FLIR E85 42°
- 78507-0201; FLIR E85 42° + 14°
- 78501-0301; FLIR E95 14°
- 78502-0301; FLIR E95 24°
- 78504-0301; FLIR E95 24° + 14°
- 78506-0301; FLIR E95 24° + 14° & 42°
- 78505-0301; FLIR E95 24° + 42°
- 78503-0301; FLIR E95 42°
- 78507-0301; FLIR E95 42° + 14°
- 63901-0101; FLIR E4
- 63906-0604; FLIR E4 (incl. Wi-Fi)
- 63905-0501; FLIR E5
- 63909-0904; FLIR E5 (incl. Wi-Fi)
- 63902-0202; FLIR E6
- 63907-0704; FLIR E6 (incl. Wi-Fi)
- 63903-0303; FLIR E8
- 63908-0805; FLIR E8 (incl. Wi-Fi)
- 79301-0101; FLIR T530 14°
- 79302-0101; FLIR T530 24°
- 79304-0101; FLIR T530 24° + 14°
- 79306-0101; FLIR T530 24° + 14° & 42°
- 79305-0101; FLIR T530 24° + 42°
- 79303-0101; FLIR T530 42°
- 79307-0101; FLIR T530 42° + 14°
- 79301-0201; FLIR T540 14°
- 79302-0201; FLIR T540 24°
- 79304-0201; FLIR T540 24° + 14°



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Website

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Customer support

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- 79306-0201; FLIR T540 24° + 14° & 42°
- 79305-0201; FLIR T540 24° + 42°
- 79303-0201; FLIR T540 42°
- 79307-0201; FLIR T540 42° + 14°
- 72001-0101; FLIR C2
- 72002-0202; FLIR C2 Educational Kit
- 72003-0303; FLIR C3 (incl. Wi-Fi)
- 72003-0404; FLIR C3 (incl. Wi-Fi) Educational Kit

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Website

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Customer support

<http://support.flir.com>



General description	
Focus adjustment tool	

Physical data	
Size (L x D)	12 x 38 mm (0.47 x 1.50 in.)
Color	Blue

Shipping information	
Packaging, type	Cardboard box
List of contents	• Focus adjustment tool
Packaging, weight	72 g (2.5 oz.)
Packaging, size	170 x 64 x 75 mm (6.69 x 2.52 x 2.95 in.)
EAN-13	7332558006368
UPC-12	845188006716
Country of origin	Sweden

Compatible with the following products:

- 83225-0101; FLIR A35 FOV 13 (60 Hz, ver. 2017)
- 83213-0102; FLIR A35 FOV 25 (60 Hz, ver. 2017)
- 83207-0102; FLIR A35 FOV 45 (60 Hz, ver. 2017)
- 83250-0101; FLIR A35 FOV 6.5 (60 Hz, ver. 2017)
- 83209-0102; FLIR A35 FOV 69 (30 Hz, ver. 2017)
- 73413-0102; FLIR A65 f=13 mm with SC kit (30 Hz)
- 75025-0101; FLIR A65 FOV 25 (30 Hz, ver. 2016)
- 75013-0101; FLIR A65 FOV 45 (30 Hz, ver. 2016)
- 75007-0101; FLIR A65 FOV 90 (30 Hz, ver. 2016)

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Website

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Customer support

<http://support.flir.com>



General description	
Power supply, power over Ethernet (PoE) injector incl. multi plugs.	

Power system	
AC operation	Input: 100–240 V, 50–60 Hz
DC operation	Output: 56 VDC
Power	15.4 W

Physical data	
Size (L × W × H)	86× 50 × 33 mm (3.4 × 2.0 × 1.3 in.)
Color	Black

Shipping information	
List of contents	<ul style="list-style-type: none"> PoE injector EU plug UK plug US plug AU plug
EAN-13	7332558008683 4743254001787 (Estonia plant)
UPC-12	845188009205
Country of origin	Sweden

Compatible with the following products:

- 73309-0102; FLIR A35 f=9 mm with SC kit
- 83225-0101; FLIR A35 FOV 13 (60 Hz, ver. 2017)
- 83213-0102; FLIR A35 FOV 25 (60 Hz, ver. 2017)
- 83207-0102; FLIR A35 FOV 45 (60 Hz, ver. 2017)
- 83250-0101; FLIR A35 FOV 6.5 (60 Hz, ver. 2017)
- 83209-0102; FLIR A35 FOV 69 (30 Hz, ver. 2017)
- 73413-0102; FLIR A65 f=13 mm with SC kit (30 Hz)
- 73513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 75050-0101; FLIR A65 FOV 12.4 (30 Hz, ver. 2016)
- 75025-0101; FLIR A65 FOV 25 (30 Hz, ver. 2016)
- 75013-0101; FLIR A65 FOV 45 (30 Hz, ver. 2016)
- 75010-0101; FLIR A65 FOV 6.2 (30 Hz, ver. 2016)
- 75007-0101; FLIR A65 FOV 90 (30 Hz, ver. 2016)

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Website

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Customer support

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General description	
Table stand kit for the FLIR Ax5 series. The kit consists of a base support and a gooseneck.	
Physical data	
Weight	2.04 kg (4.49 lb.)
Size (L x D)	<ul style="list-style-type: none"> Length of gooseneck: 0.4 m (1.3 ft.) Base: Ø 0.13 m (0.43 ft.); thickness: 0.05 m (0.17 ft.)
Color	Black
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> Base support Gooseneck
Packaging, weight	2.366 kg (5.2 lb.)
Packaging, size	303 x 206 x 127 mm (12.0 x 8.1 x 5.0 in.)
EAN-13	7332558006122 4743254001886 (Estonia plant)
UPC-12	845188006426
Country of origin	Sweden

Compatible with the following products:

- 73309-0102; FLIR A35 f=9 mm with SC kit
- 83225-0101; FLIR A35 FOV 13 (60 Hz, ver. 2017)
- 83213-0102; FLIR A35 FOV 25 (60 Hz, ver. 2017)
- 83207-0102; FLIR A35 FOV 45 (60 Hz, ver. 2017)
- 83250-0101; FLIR A35 FOV 6.5 (60 Hz, ver. 2017)
- 83209-0102; FLIR A35 FOV 69 (30 Hz, ver. 2017)
- 73413-0102; FLIR A65 f=13 mm with SC kit (30 Hz)
- 73513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 75050-0101; FLIR A65 FOV 12.4 (30 Hz, ver. 2016)
- 75025-0101; FLIR A65 FOV 25 (30 Hz, ver. 2016)
- 75013-0101; FLIR A65 FOV 45 (30 Hz, ver. 2016)
- 75010-0101; FLIR A65 FOV 6.2 (30 Hz, ver. 2016)
- 75007-0101; FLIR A65 FOV 90 (30 Hz, ver. 2016)

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Website

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General description	
Rugged, watertight plastic shipping case for FLIR Ax5 SC kit series. Holds all items neatly and securely. The case can be locked with padlocks and features a membrane to prevent pressure build-up in airplane cargo holds.	

Physical data	
Weight	1.4 kg (3.01 lb.)
Size (L x W x H)	170 x 145 x 290 mm (6.7 x 5.7 x 11.4 in.)
Color	Black

Shipping information	
Packaging, type	Cardboard box
Packaging, weight	1.6 kg (3.52 lb.)
Packaging, size	383 x 165 x 319 mm (15.1 x 6.5 x 12.6 in.)
EAN-13	7332558011065
UPC-12	845188011901
Country of origin	Sweden

Compatible with the following products:

- 73309-0102; FLIR A35 f=9 mm with SC kit
- 83225-0101; FLIR A35 FOV 13 (60 Hz, ver. 2017)
- 83213-0102; FLIR A35 FOV 25 (60 Hz, ver. 2017)
- 83207-0102; FLIR A35 FOV 45 (60 Hz, ver. 2017)
- 83250-0101; FLIR A35 FOV 6.5 (60 Hz, ver. 2017)
- 83209-0102; FLIR A35 FOV 69 (30 Hz, ver. 2017)
- 73413-0102; FLIR A65 f=13 mm with SC kit (30 Hz)
- 73513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 75050-0101; FLIR A65 FOV 12.4 (30 Hz, ver. 2016)
- 75025-0101; FLIR A65 FOV 25 (30 Hz, ver. 2016)
- 75013-0101; FLIR A65 FOV 45 (30 Hz, ver. 2016)
- 75010-0101; FLIR A65 FOV 6.2 (30 Hz, ver. 2016)
- 75007-0101; FLIR A65 FOV 90 (30 Hz, ver. 2016)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Specifications	
Input Voltage	Universal AC, 47-63 Hz 90-264 Vac operating range Input current: 1 Arms max.
Input Protection	Inrush current limiting Varistor Internal safety fuse Lower voltage than the specified minimum input will not damage the unit
Isolation	2250 Vdc input to chassis 4300 Vdc input to output 8 mm spacing 500 Vdc output to chassis
Standards	Designed to meet EN60950-1 and related standards
EMI	EN55022 Class A with margins
Switching Frequency	47 kHz \pm 3 kHz
Output Voltage/Current	24 V \pm 0.2 V/2 A Output is floating, either terminal can be grounded
Redundancy Diode	None
Line/Load Regulation	\pm 1% combined from no load to full load.
Dynamic Response	Max 5% voltage deviation for 10% to 50% load step, with better than 1msec recovery time
Output Ripple/Noise	Better than 60 mVrms or 300 mVpp (20 MHz BW)
Output Overload Protection	Rectangular current limiting with hiccup-type short-circuit protection Current Limit: 2.4 A \pm 0.3 A
Output Overvoltage Protection	Transorb installed across the output
Efficiency	85% typical at full load
Operating Temperature Range	-25°C to +50°C cold plate temperature for full specification
Storage Temperature	-40°C to +80°C
Temperature Drift	0.03% per °C over operating temperature range
Cooling	Conduction via base plate to a cold plate and natural convection
Environmental Protection	IP66 enclosure
Shock/Vibration	IEC 61373 Cat 1 A&B
Humidity	100%, condensing



Power supply, 24 VDC, 2 A, 50 W

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Specifications	
MTBF	140,000 hours @ 45°C Demonstrated MTBF is significantly higher
Indicators	None
Control Input	None
Alarm Output	None
Package / Dimensions (WxHxL)	D0: 178 × 80 × 108 mm (7 × 3.15 × 4.25 in.) Including mounting flanges Mounting holes are clear
Weight	1.2 kg (2.5 lb.)
Connections	Internal 6-pole terminal block with 3/8" spacing accessible via cable glands
RoHS Compliance	Compliant
Warranty	Two years subject to application within good engineering practice

Shipping information	
Packaging, weight	1.3 kg (2.9 lb.)
Packaging, size	338 × 145 × 85 mm (13.3 × 5.71 × 3.3 in.)
EAN-13	7332558014639
UPC-12	845188016715

Compatible with the following products:

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

Accessories for FLIR Cx series

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Website

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Customer support

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General description

This cable is used to power the infrared camera from the 12 V socket in a car.

Power system

Voltage	Input: 12/24 V Output: 5 V
---------	-------------------------------

Physical data

Cable length	1 m (3.3 ft.)
Color	Black

Shipping information

Packaging, weight	0.175 kg
Packaging, size	170 × 75 × 65 mm
EAN-13	7332558004876 4743254001060 (Estonia plant)
UPC-12	845188004910
Country of origin	Estonia

Compatible with the following products:

- 63901-0101; FLIR E4
- 63906-0604; FLIR E4 (incl. Wi-Fi)
- 63905-0501; FLIR E5
- 63909-0904; FLIR E5 (incl. Wi-Fi)
- 63902-0202; FLIR E6
- 63907-0704; FLIR E6 (incl. Wi-Fi)
- 63903-0303; FLIR E8
- 63908-0805; FLIR E8 (incl. Wi-Fi)
- 73701-0101; FLIR K2
- 72001-0101; FLIR C2
- 72002-0202; FLIR C2 Educational Kit
- 72003-0303; FLIR C3 (incl. Wi-Fi)
- 72003-0404; FLIR C3 (incl. Wi-Fi) Educational Kit

P/N: T198584

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

FLIR Tools is a software suite specifically designed to provide an easy way to update your camera and create inspection reports.

Key features:

- Report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR).
- Manual IR/Visual Image Grouping
- Import images from your camera to your computer.
- Apply filters when searching for images.
- Search all text in images and text annotations.
- Store the five latest search criteria's.
- Lay out, move, and resize measurement tools on any infrared image.
- Create PDF imagesheets of any images of your choice.
- Add headers, footers, and logos to imagesheets.
- Create PDF reports for images of your choice.
- Add headers, footers, and logos to reports.
- Report editor (report page preview and snap to grid).
- Sort function (by date, groups sorted by path, and groups sorted by date).
- Browse and purchase infrared cameras, software, and accessories in the webshop.
- Software localized to 21 languages.
- Support for MSX (Multi-Spectral Dynamic Imaging) Images
- Support for Sketch Images on both IR and Visual with toggling ON/OFF feature.
- Support for Same FOV (Field of View Match)
- Display of Compass Information in Edit and in Report.
- Display of GPS Information in Edit and in Report.
- Camera update (applies to FLIR Ex, Kxx, Exx and T6xx series only).

Download

This software is a freeware. To download, click the following link:

<http://support.flir.com/tools>

Release notes

Version	5.9
New features in version 5.9	<ul style="list-style-type: none"> • Additional trigger options for FLIR K53, K55, and K65 cameras • Added user account registration and login • New Pleora version support • Various bug fixes
New features in version 5.7	<ul style="list-style-type: none"> • Five modes supported for K65, K55, and K53 cameras. • Support for Kx3 cameras. • Auto gain mode now available for K2 cameras. • Various bug fixes.
New features in version 5.5	<ul style="list-style-type: none"> • Added support for Microsoft Office 2016 (32-bit) for the FLIR Word Reporting module. • Various bug fixes.

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Release notes	
New features in version 5.3	<ul style="list-style-type: none"> Support for the FLIR T1020 and T1040 cameras for import, edit, report creation, and camera update. Support for the FLIR K2 camera for configuration, video streaming, and camera update. Delta (difference) readings are now on one line instead of two.
New features in version 5.2.1	<ul style="list-style-type: none"> Option added to change color distribution mode (histogram equalization, signal linear, temperature linear). Option added to extract photos at their full field of view. Various bug fixes.
New features in version 5.2	<ul style="list-style-type: none"> Support for auto-adjusting a region. Support for zoom. Various bug fixes.
New features in version 5.1	<ul style="list-style-type: none"> Improved import performance. Added support for video recording settings for FLIR Kxx series. Added support for importing video files from FLIR Kxx series. Added support for FLIR C2 camera. Various bug fixes.
New features in version 5.0	<ul style="list-style-type: none"> Local object parameters for measurement tools. Save a report in-process with the ability to edit at a later time. Pull-down menus for text annotations. Variable playback speed for recordings. Show or hide min./max./avg. temperature, and hot/cold markers, for areas and lines. Smoother display for low-resolution images. UltraMax image enhancement. Dropping support for Windows XP. Various bug fixes.
New features in version 4.1	<ul style="list-style-type: none"> Previous/next in Edit mode. Clone in the Library. Extract visual photo from a multispectral image. Import *.mp4, *.seq, and *.csq files from the camera. Playback/edit *.seq and *.csq files. Scale enhancement for the FLIR GF3xx series. Auto resize of thumbnails during importing for the FLIR T6xx series. Grouping/ungrouping now added. Various bug fixes.
New features in version 4.0	<ul style="list-style-type: none"> Support for the new FLIR Ex and Exx series cameras. Interactive quick start guide when connecting a FLIR camera. Improved library view. Support for multispectral images. Support for auto-oriented images. Various bug fixes.
New features in version 3.1	<ul style="list-style-type: none"> Support for FLIR K series cameras. Interactive quick start guide when connecting a FLIR K series camera. Live image streaming from FLIR K series cameras. PC-side configuration of FLIR K series cameras. New report templates for DC images only added. Various bug fixes.
New features in version 3.0	<ul style="list-style-type: none"> Add folder to library. Support for isotherms and color alarms Image description for both IR and DC. Export functionality (*.avi, *.csv). Microsoft Windows 8 (32- and 64-bit) New web installer Various bug fixes.



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Release notes	
New features in version 2.2	<ul style="list-style-type: none"> Camera tab: <ul style="list-style-type: none"> Logging feature in Camera Tab Recording and playback of SEQ files. Various bug fixes.
New features in version 2.1	<ul style="list-style-type: none"> New Text Comment Template Tab: <ul style="list-style-type: none"> Create, Edit and Transfer templates to and from any FLIR Camera. Import and Export of Templates. Support for MSX (Multi-Spectral Dynamic Imaging) Images Support for Sketch Images on both IR and Visual with toggling ON/OFF feature. Support for Same FOV (Field of View Match) Display of Compass Information in Edit and in Report. Display of GPS Information in Edit and in Report. <ul style="list-style-type: none"> Direct Link to Google Maps for GPS Tagged images from Report. Support for 3x5 and 6x5 A-series cameras
New features in version 2.0	<ul style="list-style-type: none"> Camera tab: <ul style="list-style-type: none"> Camera connection with FLIR UVC cameras. Measurement data analysis. Plotting. Snapshot saving with text annotation and plot. Performance improvement for large reports: can now create reports and imagesheets of up to 200 pages. Various bug fixes.
New features in version 1.3	<ul style="list-style-type: none"> Import from ix series cameras. Add and remove a form from a group. Text comments are now saved in the infrared image. The indexing engine can create groups from IR, DC, and text annotations when indexing the paths in the watch folder. Arrow tool in the report toolbar. Reorder pages. Text annotations can now be edited in the report. New report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR). New sample images.
New features in version 1.2 SP1	<ul style="list-style-type: none"> Various bug fixes.
New features in version 1.2	<ul style="list-style-type: none"> Search function: <ul style="list-style-type: none"> Store the five latest search criterias. Search in all texts in images and text annotations. Sort function: <ul style="list-style-type: none"> By date. Groups sorted by by path. Groups sorted by date. Report editor: <ul style="list-style-type: none"> Report page preview. Snap to grid. Various bug fixes.
New features in version 1.1 SP1	<ul style="list-style-type: none"> Extension to the camera update functionality. Various bug fixes
New features in version 1.1	<ul style="list-style-type: none"> Software localized to 21 languages. Camera update. (Exx, T6xx) Option to rotate an infrared image in the infrared editor.

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> Digital download, or CD-ROM
Packaging, weight	0.106 kg (0.23 lb.)



FLIR Tools

P/N: T198584

Revision

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>**Shipping information**

Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005279
UPC-12	845188005481
Country of origin	Sweden

System requirements

Operating system	<ul style="list-style-type: none">• Windows 7, 32-bit• Windows 7, 64-bit• Windows 8, 32-bit• Windows 8, 64-bit• Windows 10, 32-bit• Windows 10, 64-bit
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Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 73309-0102; FLIR A35 f=9 mm with SC kit
- 83225-0101; FLIR A35 FOV 13 (60 Hz, ver. 2017)
- 83213-0102; FLIR A35 FOV 25 (60 Hz, ver. 2017)
- 83207-0102; FLIR A35 FOV 45 (60 Hz, ver. 2017)
- 83250-0101; FLIR A35 FOV 6.5 (60 Hz, ver. 2017)
- 83209-0102; FLIR A35 FOV 69 (30 Hz, ver. 2017)
- 73413-0102; FLIR A65 f=13 mm with SC kit (30 Hz)
- 73513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 75050-0101; FLIR A65 FOV 12.4 (30 Hz, ver. 2016)
- 75025-0101; FLIR A65 FOV 25 (30 Hz, ver. 2016)
- 75013-0101; FLIR A65 FOV 45 (30 Hz, ver. 2016)
- 75010-0101; FLIR A65 FOV 6.2 (30 Hz, ver. 2016)
- 75007-0101; FLIR A65 FOV 90 (30 Hz, ver. 2016)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72001-0101; FLIR C2
- 72002-0202; FLIR C2 Educational Kit
- 72003-0303; FLIR C3 (incl. Wi-Fi)
- 72003-0404; FLIR C3 (incl. Wi-Fi) Educational Kit

P/N: T199233

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

The FLIR Atlas SDK for .NET is a software development kit that enables developers to create applications. Supported by help files and sample code, developers can add functionality or collaborate with other FLIR products to get the result they want in their application.

Key features:

- Supports communication and streaming using FireWire, Gigabit, RTSP, and USB interfaces.
- Gives the user full control of the camera.
- Supports recording of images using FireWire, Gigabit, RTSP, and USB interfaces.
- Converts 16-bit signal pixels into temperature data, for maximum user flexibility.
- Allows 16-bit temperature linear, histogram, and signal outputs.

Release notes

Version	3.1
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Shipping information

Packaging, type	Cardboard box
List of contents	Download card with printed license key
Packaging, weight	0.056 kg (0.123 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558011126
UPC-12	845188012014
Country of origin	Sweden

System requirements

Operating system	<ul style="list-style-type: none"> • Windows 7 (32- and 64-bit) • Windows 8 (32- and 64-bit) • Windows 10 (32- and 64-bit)
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Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case



P/N: T199233

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 73309-0102; FLIR A35 f=9 mm with SC kit
- 83225-0101; FLIR A35 FOV 13 (60 Hz, ver. 2017)
- 83213-0102; FLIR A35 FOV 25 (60 Hz, ver. 2017)
- 83207-0102; FLIR A35 FOV 45 (60 Hz, ver. 2017)
- 83250-0101; FLIR A35 FOV 6.5 (60 Hz, ver. 2017)
- 83209-0102; FLIR A35 FOV 69 (30 Hz, ver. 2017)
- 73413-0102; FLIR A65 f=13 mm with SC kit (30 Hz)
- 73513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 75050-0101; FLIR A65 FOV 12.4 (30 Hz, ver. 2016)
- 75025-0101; FLIR A65 FOV 25 (30 Hz, ver. 2016)
- 75013-0101; FLIR A65 FOV 45 (30 Hz, ver. 2016)
- 75010-0101; FLIR A65 FOV 6.2 (30 Hz, ver. 2016)
- 75007-0101; FLIR A65 FOV 90 (30 Hz, ver. 2016)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 65702-0102; FLIR GF343 24° Fixed lens
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 71502-0101; FLIR G300 a 14.5° fixed lens
- 71502-0102; FLIR G300 a 24° fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 63901-0101; FLIR E4
- 63906-0604; FLIR E4 (incl. Wi-Fi)
- 63905-0501; FLIR E5
- 63909-0904; FLIR E5 (incl. Wi-Fi)
- 63902-0202; FLIR E6
- 63907-0704; FLIR E6 (incl. Wi-Fi)
- 63903-0303; FLIR E8
- 63908-0805; FLIR E8 (incl. Wi-Fi)
- 72001-0101; FLIR C2
- 72002-0202; FLIR C2 Educational Kit
- 72003-0303; FLIR C3 (incl. Wi-Fi)
- 72003-0404; FLIR C3 (incl. Wi-Fi) Educational Kit

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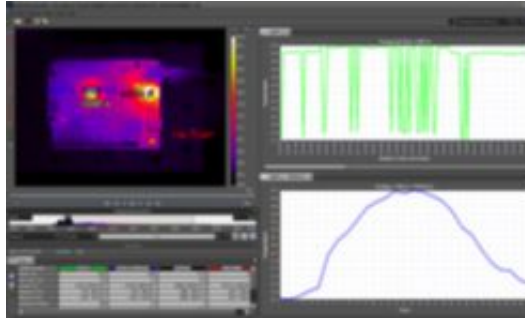
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Website

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General description
FLIR ResearchIR Standard 4 is aimed at the R&D benchtop testing environment for users of uncooled cameras. FLIR ResearchIR Standard provides the core analysis tools needed for rapid testing and assessment of thermal issues.
Main features:
<ul style="list-style-type: none"> • View live imagery from the camera • Record snapshots or movies to disk. • Post-processing of fast thermal events. • Generate time-temperature plots from live images or recorded sequences. • Analysis by region (spot, line, area). • File organizer. • Zoom and pan allows a closer look. • Multiple dockable objects for plots and statistics. • Export images and results to bitmap, Excel, or CSV formats
FLIR ResearchIR Standard 4 in combination with a FLIR thermal imaging camera is the perfect solution for any benchtop testing application application.

Download
Download your copy of FLIR ResearchIR 4 here (evaluation copy only – license key required):
http://support.flir.com/rir4

Shipping information	
List of contents	FLIR ResearchIR Standard download card, incl. license key.
Packaging, weight	0.069 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558010440
UPC-12	845188011093
Country of origin	Sweden

Compatible with the following products:

- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)

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Website

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- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72002-0202; FLIR C2 Educational Kit

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Revision

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General description	
The FLIR Atlas SDK for MATLAB is a software development kit that enables developers to create applications. Supported by help files and sample code, developers can add functionality or collaborate with other FLIR products to get the result they want in their application.	
Key features:	
<ul style="list-style-type: none"> • Supports communication and streaming using FireWire, Gigabit, RTSP, and USB interfaces. • Gives the user full control of the camera. • Supports recording of images using FireWire, Gigabit, RTSP, and USB interfaces. • Converts 16-bit signal pixels into temperature data, for maximum user flexibility. • Allows 16-bit temperature linear, histogram, and signal outputs. 	
Release notes	
Version	3.1
Shipping information	
Packaging, type	Cardboard box
List of contents	Download card with printed license key
Packaging, weight	0.056 kg (0.123 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558011133
UPC-12	845188012021
Country of origin	Sweden
System requirements	
Operating system	MATLAB 2015 (32- and 64-bit) and one of the following operating systems: <ul style="list-style-type: none"> • Windows 7 (32- and 64-bit) • Windows 8 (32- and 64-bit) • Windows 10 (32- and 64-bit)

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)

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- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 73309-0102; FLIR A35 f=9 mm with SC kit
- 83225-0101; FLIR A35 FOV 13 (60 Hz, ver. 2017)
- 83213-0102; FLIR A35 FOV 25 (60 Hz, ver. 2017)
- 83207-0102; FLIR A35 FOV 45 (60 Hz, ver. 2017)
- 83250-0101; FLIR A35 FOV 6.5 (60 Hz, ver. 2017)
- 83209-0102; FLIR A35 FOV 69 (30 Hz, ver. 2017)
- 73413-0102; FLIR A65 f=13 mm with SC kit (30 Hz)
- 73513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 75050-0101; FLIR A65 FOV 12.4 (30 Hz, ver. 2016)
- 75025-0101; FLIR A65 FOV 25 (30 Hz, ver. 2016)
- 75013-0101; FLIR A65 FOV 45 (30 Hz, ver. 2016)
- 75010-0101; FLIR A65 FOV 6.2 (30 Hz, ver. 2016)
- 75007-0101; FLIR A65 FOV 90 (30 Hz, ver. 2016)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°

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Website

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Customer support

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- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 65702-0102; FLIR GF343 24° Fixed lens
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 71502-0101; FLIR G300 a 14.5° fixed lens
- 71502-0102; FLIR G300 a 24° fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 63901-0101; FLIR E4
- 63906-0604; FLIR E4 (incl. Wi-Fi)
- 63905-0501; FLIR E5
- 63909-0904; FLIR E5 (incl. Wi-Fi)
- 63902-0202; FLIR E6
- 63907-0704; FLIR E6 (incl. Wi-Fi)
- 63903-0303; FLIR E8
- 63908-0805; FLIR E8 (incl. Wi-Fi)
- 72001-0101; FLIR C2
- 72002-0202; FLIR C2 Educational Kit
- 72003-0303; FLIR C3 (incl. Wi-Fi)
- 72003-0404; FLIR C3 (incl. Wi-Fi) Educational Kit

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General description

Compared to FLIR Tools, FLIR Tools+ has the following features:

- Radiometric Panorama incl. MSX
- Radiometric IR Video Recording
- Advanced Reporting

FLIR Tools/Tools+ is a software suite specifically designed to provide an easy way to update your camera and create inspection reports.

FLIR Tools+ main features:

- Manual IR/Visual Image Grouping
- Radiometric Panorama incl. MSX
- Radiometric IR Video Recording
- Advanced Reporting for Microsoft Office.
- Report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR).
- Import images from your camera to your computer.
- Apply filters when searching for images.
- Search all text in images and text annotations.
- Store the five latest search criteria's.
- Lay out, move, and resize measurement tools on any infrared image.
- Create PDF imagesheets of any images of your choice.
- Add headers, footers, and logos to imagesheets.
- Create PDF reports for images of your choice.
- Add headers, footers, and logos to reports.
- Report editor (report page preview and snap to grid).
- Sort function (by date, groups sorted by path, and groups sorted by date).
- Browse and purchase infrared cameras, software, and accessories in the webshop.
- Software localized to 21 languages.
- Support for MSX (Multi-Spectral Dynamic Imaging) Images
- Support for Sketch Images on both IR and Visual with toggling ON/OFF feature.
- Support for Same FOV (Field of View Match)
- Display of Compass Information in Edit and in Report.
- Display of GPS Information in Edit and in Report.
- Camera update (applies to FLIR Ex, Kxx, Exx and T6xx series only).

Download

Download a 30-day evaluation version here:

<http://support.flir.com/toolsplus>

Release notes

Version	5.9
New features in version 5.9	<ul style="list-style-type: none"> • Additional trigger options for FLIR K53, K55, and K65 cameras • Added user account registration and login • New Pleora version support • Various bug fixes
New features in version 5.7	<ul style="list-style-type: none"> • Five modes supported for K65, K55, and K53 cameras. • Support for Kx3 cameras. • Auto gain mode now available for K2 cameras. • Various bug fixes.



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Release notes	
New features in version 5.5	<ul style="list-style-type: none"> Added support for Microsoft Office 2016 (32-bit) for the FLIR Word Reporting module. Various bug fixes.
New features in version 5.3	<ul style="list-style-type: none"> Support for the FLIR T1020 and T1040 cameras for import, edit, report creation, and camera update. Support for the FLIR K2 camera for configuration, video streaming, and camera update. Delta (difference) readings are now on one line instead of two.
New features in version 5.2.1	<ul style="list-style-type: none"> Option added to change color distribution mode (histogram equalization, signal linear, temperature linear). "Rapid Report" shortcuts added to simplify reporting using a drag-and-drop operation. Option added to extract photos at their full field of view. Two new templates for express export added (Photo_Large and Thermalx1 Photox2). Various bug fixes.
New features in version 5.2	<ul style="list-style-type: none"> Support for auto-adjusting a region. Support for zoom. Express Microsoft Word reporting (*.docx). Various bug fixes.
New features in version 5.1	<ul style="list-style-type: none"> Improved import performance. Added support for video recording settings for FLIR Kxx series. Added support for importing video files from FLIR Kxx series. Added support for FLIR C2 camera. Various bug fixes.
New features in version 5.0	<ul style="list-style-type: none"> Local object parameters for measurement tools. Save a report in-process with the ability to edit at a later time. Pull-down menus for text annotations. Variable playback speed for recordings. Show or hide min./max./avg. temperature, and hot/cold markers, for areas and lines. Smoother display for low-resolution images. UltraMax image enhancement. Dropping support for Windows XP. Various bug fixes.
New features in version 4.1	<ul style="list-style-type: none"> Previous/next in Edit mode. Clone in the Library. Extract visual photo from a multispectral image. Import *.mp4, *.seq, and *.csq files from the camera. Playback/edit *.seq and *.csq files. Scale enhancement for the FLIR GF3xx series. Auto resize of thumbnails during importing for the FLIR T6xx series. Grouping/ungrouping now added. Various bug fixes.
New features in version 4.0	<ul style="list-style-type: none"> Support for the new FLIR Ex and Exx series cameras. Interactive quick start guide when connecting a FLIR camera. Improved library view. Support for multispectral images. Support for auto-oriented images. Various bug fixes.
New features in version 3.1	<ul style="list-style-type: none"> Support for FLIR K series cameras. Interactive quick start guide when connecting a FLIR K series camera. Live image streaming from FLIR K series cameras. PC-side configuration of FLIR K series cameras. New report templates for DC images only added. Various bug fixes.



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Website<http://www.flir.com>**Customer support**<http://support.flir.com>**Release notes**

New features in version 3.0

- Add folder to library.
- Support for isotherms and color alarms
- Image description for both IR and DC.
- Export functionality (*.avi, *.csv).
- Microsoft Windows 8 (32- and 64-bit)
- New web installer
- Radiometric panorama with MSX images.
- Advanced reports.
- Manual grouping/ungrouping of images.
- Various bug fixes.

New features in version 2.2

- Camera tab:
 - Logging feature in Camera Tab
 - Recording and playback of SEQ files.
- Various bug fixes.

Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• FLIR Tools+ (download card incl. license key)
Packaging, weight	0.059 kg (0.13 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	73325585378 4743254001442 (Estonia plant)
UPC-12	845188005580
Country of origin	Sweden

System requirements

Operating system

- Windows 7, 32-bit
- Windows 7, 64-bit
- Windows 8, 32-bit
- Windows 8, 64-bit
- Windows 10, 32-bit
- Windows 10, 64-bit

Software requirements

- Office 2007 (32-bit)
- Office 2010 (32-bit)
- Office 2013 (32-bit)
- Office 2016 (32-bit)

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)

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- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 73309-0102; FLIR A35 f=9 mm with SC kit
- 83225-0101; FLIR A35 FOV 13 (60 Hz, ver. 2017)
- 83213-0102; FLIR A35 FOV 25 (60 Hz, ver. 2017)
- 83207-0102; FLIR A35 FOV 45 (60 Hz, ver. 2017)
- 83250-0101; FLIR A35 FOV 6.5 (60 Hz, ver. 2017)
- 83209-0102; FLIR A35 FOV 69 (30 Hz, ver. 2017)
- 73413-0102; FLIR A65 f=13 mm with SC kit (30 Hz)
- 73513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 75050-0101; FLIR A65 FOV 12.4 (30 Hz, ver. 2016)
- 75025-0101; FLIR A65 FOV 25 (30 Hz, ver. 2016)
- 75013-0101; FLIR A65 FOV 45 (30 Hz, ver. 2016)
- 75010-0101; FLIR A65 FOV 6.2 (30 Hz, ver. 2016)
- 75007-0101; FLIR A65 FOV 90 (30 Hz, ver. 2016)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°

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- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 84502-0201; FLIR E53 24°
- 78501-0101; FLIR E75 14°
- 78502-0101; FLIR E75 24°
- 78504-0101; FLIR E75 24° + 14°
- 78506-0101; FLIR E75 24° + 14° & 42°
- 78505-0101; FLIR E75 24° + 42°
- 78503-0101; FLIR E75 42°
- 78507-0101; FLIR E75 42° + 14°
- 78501-0201; FLIR E85 14°
- 78502-0201; FLIR E85 24°
- 78504-0201; FLIR E85 24° + 14°
- 78506-0201; FLIR E85 24° + 14° & 42°
- 78505-0201; FLIR E85 24° + 42°
- 78503-0201; FLIR E85 42°
- 78507-0201; FLIR E85 42° + 14°
- 78501-0301; FLIR E95 14°
- 78502-0301; FLIR E95 24°
- 78504-0301; FLIR E95 24° + 14°
- 78506-0301; FLIR E95 24° + 14° & 42°
- 78505-0301; FLIR E95 24° + 42°
- 78503-0301; FLIR E95 42°
- 78507-0301; FLIR E95 42° + 14°
- 63901-0101; FLIR E4
- 63906-0604; FLIR E4 (incl. Wi-Fi)
- 63905-0501; FLIR E5
- 63909-0904; FLIR E5 (incl. Wi-Fi)
- 63902-0202; FLIR E6
- 63907-0704; FLIR E6 (incl. Wi-Fi)
- 63903-0303; FLIR E8
- 63908-0805; FLIR E8 (incl. Wi-Fi)
- 79301-0101; FLIR T530 14°
- 79302-0101; FLIR T530 24°
- 79304-0101; FLIR T530 24° + 14°
- 79306-0101; FLIR T530 24° + 14° & 42°
- 79305-0101; FLIR T530 24° + 42°
- 79303-0101; FLIR T530 42°
- 79307-0101; FLIR T530 42° + 14°
- 79301-0201; FLIR T540 14°
- 79302-0201; FLIR T540 24°
- 79304-0201; FLIR T540 24° + 14°



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 79306-0201; FLIR T540 24° + 14° & 42°
- 79305-0201; FLIR T540 24° + 42°
- 79303-0201; FLIR T540 42°
- 79307-0201; FLIR T540 42° + 14°
- 72001-0101; FLIR C2
- 72002-0202; FLIR C2 Educational Kit
- 72003-0303; FLIR C3 (incl. Wi-Fi)
- 72003-0404; FLIR C3 (incl. Wi-Fi) Educational Kit

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Website

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Customer support

<http://support.flir.com>



General description	
Power supply USB-micro.	
Power system	
AC operation	90–264 VAC, 50/60 Hz, output 5.0 VDC, 2.1 A
Power	10.5 W
Physical data	
Size (L × W × H)	58.0 × 38.0 × 31.0 mm (2.3 × 1.5 × 1.2 in.)
Cable length	1.2 m (3.9 ft.)
Shipping information	
Packaging, weight	0.200 kg
Packaging, size	170 × 75 × 65 mm
EAN-13	7332558004852 4743254001084 (Estonia plant)
UPC-12	845188004934
Country of origin	Estonia

Compatible with the following products:

- 63901-0101; FLIR E4
- 63906-0604; FLIR E4 (incl. Wi-Fi)
- 63905-0501; FLIR E5
- 63909-0904; FLIR E5 (incl. Wi-Fi)
- 63902-0202; FLIR E6
- 63907-0704; FLIR E6 (incl. Wi-Fi)
- 63903-0303; FLIR E8
- 63908-0805; FLIR E8 (incl. Wi-Fi)
- 72001-0101; FLIR C2
- 72002-0202; FLIR C2 Educational Kit
- 72003-0303; FLIR C3 (incl. Wi-Fi)
- 72003-0404; FLIR C3 (incl. Wi-Fi) Educational Kit

P/N: T199564

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

General description	
Tripod adapter for the FLIR Cx series cameras.	

Physical data	
Weight	0.011 kg (0.024 lb.)
Size (L × W × H)	79 × 19 × 26 mm (3.1 × 0.7 × 1.0 in.)
Color	Black

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Tripod adapter• Instruction
Packaging, weight	0.2 kg (0.44 lb.)
Packaging, size	240 × 170 × 80 mm (9.4 × 6.7 × 3.1 in.)
EAN-13	4743254003064
UPC-12	845188014438
Country of origin	Estonia

Compatible with the following products:

- 72001-0101; FLIR C2
- 72002-0202; FLIR C2 Educational Kit
- 72003-0303; FLIR C3 (incl. Wi-Fi)
- 72003-0404; FLIR C3 (incl. Wi-Fi) Educational Kit

P/N: T198533

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

This cable is used to connect the infrared camera with a computer, using the USB protocol.

Physical data

Weight	60 g (2.1 oz.)
Cable length	1.8 m (5.9 ft.)
Connector	Standard USB-A to USB Micro-B

Shipping information

Packaging, weight	0.100 kg
Packaging, size	170 × 75 × 65 mm
EAN-13	7332558004869 4743254001077 (Estonia plant)
UPC-12	845188004927
Country of origin	Estonia

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 63901-0101; FLIR E4
- 63906-0604; FLIR E4 (incl. Wi-Fi)
- 63905-0501; FLIR E5
- 63909-0904; FLIR E5 (incl. Wi-Fi)
- 63902-0202; FLIR E6
- 63907-0704; FLIR E6 (incl. Wi-Fi)
- 63903-0303; FLIR E8
- 63908-0805; FLIR E8 (incl. Wi-Fi)
- 73701-0101; FLIR K2
- 72001-0101; FLIR C2
- 72002-0202; FLIR C2 Educational Kit
- 72003-0303; FLIR C3 (incl. Wi-Fi)
- 72003-0404; FLIR C3 (incl. Wi-Fi) Educational Kit

P/N: T130129ACC

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>**General description**

Pouch to carry and protect the camera, made in durable nylon.

Physical data

Weight	0.035 kg (0.077 lb.)
Size (L x W x H)	150 x 105 x 25 mm (5.9 x 4.1 x 1 in.)

Shipping information

List of contents	• Pouch
Packaging, weight	
Packaging, size	
EAN-13	4743254003408
UPC-12	845188014827
Country of origin	Estonia

Compatible with the following products:

- 72001-0101; FLIR C2
- 72002-0202; FLIR C2 Educational Kit
- 72003-0303; FLIR C3 (incl. Wi-Fi)
- 72003-0404; FLIR C3 (incl. Wi-Fi) Educational Kit

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Accessories for FLIR Ex series

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
High capacity battery for the IR camera.	

Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	3.7 V
Battery capacity	2.6 Ah at +20°C (+68°F)
Battery note	Approximate lithium content: 0.7 g
Charging system	Battery is charged inside the camera or in separate charger
Charging temperature	0°C to +45°C (+32°F to +113°F)

Environmental data	
Battery storage temperature range	-40°C to +70°C (-40°F to +158°F)

Shipping information	
Packaging, weight	0.125 kg
Packaging, size	170 × 75 × 65 mm
EAN-13	7332558004890 4743254001046 (Estonia plant)
UPC-12	845188004897
Country of origin	Estonia

Compatible with the following products:

- 63901-0101; FLIR E4
- 63906-0604; FLIR E4 (incl. Wi-Fi)
- 63905-0501; FLIR E5
- 63909-0904; FLIR E5 (incl. Wi-Fi)
- 63902-0202; FLIR E6
- 63907-0704; FLIR E6 (incl. Wi-Fi)
- 63902-0207; FLIR E6 with Educational kit (DE)
- 63902-0204; FLIR E6 with Educational kit (EN)
- 63902-0208; FLIR E6 with Educational kit (ES)
- 63902-0206; FLIR E6 with Educational kit (FR)
- 63902-0205; FLIR E6 with Educational kit (IT)
- 63902-0209; FLIR E6 with Educational kit (JA)
- 63902-0210; FLIR E6 with Educational kit (KO)
- 63903-0303; FLIR E8
- 63908-0805; FLIR E8 (incl. Wi-Fi)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
Battery charger incl. power supply.	
Power system	
AC operation	90–264 VAC, 50/60 Hz, output 5.0 VDC, 2.1 A
Power	10.5 W
Physical data	
Size (L × W × H)	58.0 × 38.0 × 31.0 mm (2.3 × 1.5 × 1.2 in.)
Battery charger size (L × W × H)	82.0 × 56.0 × 64.0 mm (3.2 × 2.2 × 2.5 in.)
Cable length	1.2 m (3.9 ft.)
Shipping information	
Packaging, weight	0.375 kg
Packaging, size	160 × 135 × 70 mm
EAN-13	7332558004883 4743254001053 (Estonia plant)
UPC-12	845188004903
Country of origin	Estonia

Compatible with the following products:

- 63901-0101; FLIR E4
- 63906-0604; FLIR E4 (incl. Wi-Fi)
- 63905-0501; FLIR E5
- 63909-0904; FLIR E5 (incl. Wi-Fi)
- 63902-0202; FLIR E6
- 63907-0704; FLIR E6 (incl. Wi-Fi)
- 63903-0303; FLIR E8
- 63908-0805; FLIR E8 (incl. Wi-Fi)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
High capacity battery for the IR camera.	

Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	3.7 V
Battery capacity	2.6 Ah at +20°C (+68°F)
Battery note	Approximate lithium content: 0.7 g
Charging system	Battery is charged inside the camera or in separate charger
Charging temperature	0°C to +45°C (+32°F to +113°F)

Environmental data	
Battery storage temperature range	-40°C to +70°C (-40°F to +158°F)

Shipping information	
Packaging, weight	0.125 kg
Packaging, size	170 × 75 × 65 mm
EAN-13	4743254002432
UPC-12	845188012748
Country of origin	Estonia

Compatible with the following products:

- 63901-0101; FLIR E4
- 63906-0604; FLIR E4 (incl. Wi-Fi)
- 63905-0501; FLIR E5
- 63909-0904; FLIR E5 (incl. Wi-Fi)
- 63902-0202; FLIR E6
- 63907-0704; FLIR E6 (incl. Wi-Fi)
- 63903-0303; FLIR E8
- 63908-0805; FLIR E8 (incl. Wi-Fi)

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Website

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Customer support

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General description

This cable is used to power the infrared camera from the 12 V socket in a car.

Power system

Voltage	Input: 12/24 V Output: 5 V
---------	-------------------------------

Physical data

Cable length	1 m (3.3 ft.)
Color	Black

Shipping information

Packaging, weight	0.175 kg
Packaging, size	170 × 75 × 65 mm
EAN-13	7332558004876 4743254001060 (Estonia plant)
UPC-12	845188004910
Country of origin	Estonia

Compatible with the following products:

- 63901-0101; FLIR E4
- 63906-0604; FLIR E4 (incl. Wi-Fi)
- 63905-0501; FLIR E5
- 63909-0904; FLIR E5 (incl. Wi-Fi)
- 63902-0202; FLIR E6
- 63907-0704; FLIR E6 (incl. Wi-Fi)
- 63903-0303; FLIR E8
- 63908-0805; FLIR E8 (incl. Wi-Fi)
- 73701-0101; FLIR K2
- 72001-0101; FLIR C2
- 72002-0202; FLIR C2 Educational Kit
- 72003-0303; FLIR C3 (incl. Wi-Fi)
- 72003-0404; FLIR C3 (incl. Wi-Fi) Educational Kit

P/N: T199233

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Website

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General description	
The FLIR Atlas SDK for .NET is a software development kit that enables developers to create applications. Supported by help files and sample code, developers can add functionality or collaborate with other FLIR products to get the result they want in their application.	
Key features:	
<ul style="list-style-type: none"> • Supports communication and streaming using FireWire, Gigabit, RTSP, and USB interfaces. • Gives the user full control of the camera. • Supports recording of images using FireWire, Gigabit, RTSP, and USB interfaces. • Converts 16-bit signal pixels into temperature data, for maximum user flexibility. • Allows 16-bit temperature linear, histogram, and signal outputs. 	
Release notes	
Version	3.1
Shipping information	
Packaging, type	Cardboard box
List of contents	Download card with printed license key
Packaging, weight	0.056 kg (0.123 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558011126
UPC-12	845188012014
Country of origin	Sweden
System requirements	
Operating system	<ul style="list-style-type: none"> • Windows 7 (32- and 64-bit) • Windows 8 (32- and 64-bit) • Windows 10 (32- and 64-bit)

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case

P/N: T199233

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 73309-0102; FLIR A35 f=9 mm with SC kit
- 83225-0101; FLIR A35 FOV 13 (60 Hz, ver. 2017)
- 83213-0102; FLIR A35 FOV 25 (60 Hz, ver. 2017)
- 83207-0102; FLIR A35 FOV 45 (60 Hz, ver. 2017)
- 83250-0101; FLIR A35 FOV 6.5 (60 Hz, ver. 2017)
- 83209-0102; FLIR A35 FOV 69 (30 Hz, ver. 2017)
- 73413-0102; FLIR A65 f=13 mm with SC kit (30 Hz)
- 73513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 75050-0101; FLIR A65 FOV 12.4 (30 Hz, ver. 2016)
- 75025-0101; FLIR A65 FOV 25 (30 Hz, ver. 2016)
- 75013-0101; FLIR A65 FOV 45 (30 Hz, ver. 2016)
- 75010-0101; FLIR A65 FOV 6.2 (30 Hz, ver. 2016)
- 75007-0101; FLIR A65 FOV 90 (30 Hz, ver. 2016)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°

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Website

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Customer support

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- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 65702-0102; FLIR GF343 24° Fixed lens
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 71502-0101; FLIR G300 a 14.5° fixed lens
- 71502-0102; FLIR G300 a 24° fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 63901-0101; FLIR E4
- 63906-0604; FLIR E4 (incl. Wi-Fi)
- 63905-0501; FLIR E5
- 63909-0904; FLIR E5 (incl. Wi-Fi)
- 63902-0202; FLIR E6
- 63907-0704; FLIR E6 (incl. Wi-Fi)
- 63903-0303; FLIR E8
- 63908-0805; FLIR E8 (incl. Wi-Fi)
- 72001-0101; FLIR C2
- 72002-0202; FLIR C2 Educational Kit
- 72003-0303; FLIR C3 (incl. Wi-Fi)
- 72003-0404; FLIR C3 (incl. Wi-Fi) Educational Kit

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Website

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General description	
The FLIR Atlas SDK for MATLAB is a software development kit that enables developers to create applications. Supported by help files and sample code, developers can add functionality or collaborate with other FLIR products to get the result they want in their application.	
Key features:	
<ul style="list-style-type: none"> • Supports communication and streaming using FireWire, Gigabit, RTSP, and USB interfaces. • Gives the user full control of the camera. • Supports recording of images using FireWire, Gigabit, RTSP, and USB interfaces. • Converts 16-bit signal pixels into temperature data, for maximum user flexibility. • Allows 16-bit temperature linear, histogram, and signal outputs. 	
Release notes	
Version	3.1
Shipping information	
Packaging, type	Cardboard box
List of contents	Download card with printed license key
Packaging, weight	0.056 kg (0.123 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558011133
UPC-12	845188012021
Country of origin	Sweden
System requirements	
Operating system	MATLAB 2015 (32- and 64-bit) and one of the following operating systems: <ul style="list-style-type: none"> • Windows 7 (32- and 64-bit) • Windows 8 (32- and 64-bit) • Windows 10 (32- and 64-bit)

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)

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Website

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- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 73309-0102; FLIR A35 f=9 mm with SC kit
- 83225-0101; FLIR A35 FOV 13 (60 Hz, ver. 2017)
- 83213-0102; FLIR A35 FOV 25 (60 Hz, ver. 2017)
- 83207-0102; FLIR A35 FOV 45 (60 Hz, ver. 2017)
- 83250-0101; FLIR A35 FOV 6.5 (60 Hz, ver. 2017)
- 83209-0102; FLIR A35 FOV 69 (30 Hz, ver. 2017)
- 73413-0102; FLIR A65 f=13 mm with SC kit (30 Hz)
- 73513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 75050-0101; FLIR A65 FOV 12.4 (30 Hz, ver. 2016)
- 75025-0101; FLIR A65 FOV 25 (30 Hz, ver. 2016)
- 75013-0101; FLIR A65 FOV 45 (30 Hz, ver. 2016)
- 75010-0101; FLIR A65 FOV 6.2 (30 Hz, ver. 2016)
- 75007-0101; FLIR A65 FOV 90 (30 Hz, ver. 2016)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°

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- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 65702-0102; FLIR GF343 24° Fixed lens
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 71502-0101; FLIR G300 a 14.5° fixed lens
- 71502-0102; FLIR G300 a 24° fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 63901-0101; FLIR E4
- 63906-0604; FLIR E4 (incl. Wi-Fi)
- 63905-0501; FLIR E5
- 63909-0904; FLIR E5 (incl. Wi-Fi)
- 63902-0202; FLIR E6
- 63907-0704; FLIR E6 (incl. Wi-Fi)
- 63903-0303; FLIR E8
- 63908-0805; FLIR E8 (incl. Wi-Fi)
- 72001-0101; FLIR C2
- 72002-0202; FLIR C2 Educational Kit
- 72003-0303; FLIR C3 (incl. Wi-Fi)
- 72003-0404; FLIR C3 (incl. Wi-Fi) Educational Kit

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General description

Compared to FLIR Tools, FLIR Tools+ has the following features:

- Radiometric Panorama incl. MSX
- Radiometric IR Video Recording
- Advanced Reporting

FLIR Tools/Tools+ is a software suite specifically designed to provide an easy way to update your camera and create inspection reports.

FLIR Tools+ main features:

- Manual IR/Visual Image Grouping
- Radiometric Panorama incl. MSX
- Radiometric IR Video Recording
- Advanced Reporting for Microsoft Office.
- Report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR).
- Import images from your camera to your computer.
- Apply filters when searching for images.
- Search all text in images and text annotations.
- Store the five latest search criteria's.
- Lay out, move, and resize measurement tools on any infrared image.
- Create PDF imagesheets of any images of your choice.
- Add headers, footers, and logos to imagesheets.
- Create PDF reports for images of your choice.
- Add headers, footers, and logos to reports.
- Report editor (report page preview and snap to grid).
- Sort function (by date, groups sorted by path, and groups sorted by date).
- Browse and purchase infrared cameras, software, and accessories in the webshop.
- Software localized to 21 languages.
- Support for MSX (Multi-Spectral Dynamic Imaging) Images
- Support for Sketch Images on both IR and Visual with toggling ON/OFF feature.
- Support for Same FOV (Field of View Match)
- Display of Compass Information in Edit and in Report.
- Display of GPS Information in Edit and in Report.
- Camera update (applies to FLIR Ex, Kxx, Exx and T6xx series only).

Download

Download a 30-day evaluation version here:

<http://support.flir.com/toolsplus>

Release notes

Version	5.9
New features in version 5.9	<ul style="list-style-type: none"> • Additional trigger options for FLIR K53, K55, and K65 cameras • Added user account registration and login • New Pleora version support • Various bug fixes
New features in version 5.7	<ul style="list-style-type: none"> • Five modes supported for K65, K55, and K53 cameras. • Support for Kx3 cameras. • Auto gain mode now available for K2 cameras. • Various bug fixes.



FLIR Tools+ (download card incl. license key)

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Release notes	
New features in version 5.5	<ul style="list-style-type: none"> Added support for Microsoft Office 2016 (32-bit) for the FLIR Word Reporting module. Various bug fixes.
New features in version 5.3	<ul style="list-style-type: none"> Support for the FLIR T1020 and T1040 cameras for import, edit, report creation, and camera update. Support for the FLIR K2 camera for configuration, video streaming, and camera update. Delta (difference) readings are now on one line instead of two.
New features in version 5.2.1	<ul style="list-style-type: none"> Option added to change color distribution mode (histogram equalization, signal linear, temperature linear). "Rapid Report" shortcuts added to simplify reporting using a drag-and-drop operation. Option added to extract photos at their full field of view. Two new templates for express export added (Photo_Large and Thermalx1 Photox2). Various bug fixes.
New features in version 5.2	<ul style="list-style-type: none"> Support for auto-adjusting a region. Support for zoom. Express Microsoft Word reporting (*.docx). Various bug fixes.
New features in version 5.1	<ul style="list-style-type: none"> Improved import performance. Added support for video recording settings for FLIR Kxx series. Added support for importing video files from FLIR Kxx series. Added support for FLIR C2 camera. Various bug fixes.
New features in version 5.0	<ul style="list-style-type: none"> Local object parameters for measurement tools. Save a report in-process with the ability to edit at a later time. Pull-down menus for text annotations. Variable playback speed for recordings. Show or hide min./max./avg. temperature, and hot/cold markers, for areas and lines. Smoother display for low-resolution images. UltraMax image enhancement. Dropping support for Windows XP. Various bug fixes.
New features in version 4.1	<ul style="list-style-type: none"> Previous/next in Edit mode. Clone in the Library. Extract visual photo from a multispectral image. Import *.mp4, *.seq, and *.csq files from the camera. Playback/edit *.seq and *.csq files. Scale enhancement for the FLIR GF3xx series. Auto resize of thumbnails during importing for the FLIR T6xx series. Grouping/ungrouping now added. Various bug fixes.
New features in version 4.0	<ul style="list-style-type: none"> Support for the new FLIR Ex and Exx series cameras. Interactive quick start guide when connecting a FLIR camera. Improved library view. Support for multispectral images. Support for auto-oriented images. Various bug fixes.
New features in version 3.1	<ul style="list-style-type: none"> Support for FLIR K series cameras. Interactive quick start guide when connecting a FLIR K series camera. Live image streaming from FLIR K series cameras. PC-side configuration of FLIR K series cameras. New report templates for DC images only added. Various bug fixes.



FLIR Tools+ (download card incl. license key)

P/N: T198583

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2017-05-30 15:32 UTC+1

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>**Release notes**

New features in version 3.0

- Add folder to library.
- Support for isotherms and color alarms
- Image description for both IR and DC.
- Export functionality (*.avi, *.csv).
- Microsoft Windows 8 (32- and 64-bit)
- New web installer
- Radiometric panorama with MSX images.
- Advanced reports.
- Manual grouping/ungrouping of images.
- Various bug fixes.

New features in version 2.2

- Camera tab:
 - Logging feature in Camera Tab
 - Recording and playback of SEQ files.
- Various bug fixes.

Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• FLIR Tools+ (download card incl. license key)
Packaging, weight	0.059 kg (0.13 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	73325585378 4743254001442 (Estonia plant)
UPC-12	845188005580
Country of origin	Sweden

System requirements

Operating system	<ul style="list-style-type: none">• Windows 7, 32-bit• Windows 7, 64-bit• Windows 8, 32-bit• Windows 8, 64-bit• Windows 10, 32-bit• Windows 10, 64-bit
Software requirements	<ul style="list-style-type: none">• Office 2007 (32-bit)• Office 2010 (32-bit)• Office 2013 (32-bit)• Office 2016 (32-bit)

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 73309-0102; FLIR A35 f=9 mm with SC kit
- 83225-0101; FLIR A35 FOV 13 (60 Hz, ver. 2017)
- 83213-0102; FLIR A35 FOV 25 (60 Hz, ver. 2017)
- 83207-0102; FLIR A35 FOV 45 (60 Hz, ver. 2017)
- 83250-0101; FLIR A35 FOV 6.5 (60 Hz, ver. 2017)
- 83209-0102; FLIR A35 FOV 69 (30 Hz, ver. 2017)
- 73413-0102; FLIR A65 f=13 mm with SC kit (30 Hz)
- 73513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 75050-0101; FLIR A65 FOV 12.4 (30 Hz, ver. 2016)
- 75025-0101; FLIR A65 FOV 25 (30 Hz, ver. 2016)
- 75013-0101; FLIR A65 FOV 45 (30 Hz, ver. 2016)
- 75010-0101; FLIR A65 FOV 6.2 (30 Hz, ver. 2016)
- 75007-0101; FLIR A65 FOV 90 (30 Hz, ver. 2016)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 84502-0201; FLIR E53 24°
- 78501-0101; FLIR E75 14°
- 78502-0101; FLIR E75 24°
- 78504-0101; FLIR E75 24° + 14°
- 78506-0101; FLIR E75 24° + 14° & 42°
- 78505-0101; FLIR E75 24° + 42°
- 78503-0101; FLIR E75 42°
- 78507-0101; FLIR E75 42° + 14°
- 78501-0201; FLIR E85 14°
- 78502-0201; FLIR E85 24°
- 78504-0201; FLIR E85 24° + 14°
- 78506-0201; FLIR E85 24° + 14° & 42°
- 78505-0201; FLIR E85 24° + 42°
- 78503-0201; FLIR E85 42°
- 78507-0201; FLIR E85 42° + 14°
- 78501-0301; FLIR E95 14°
- 78502-0301; FLIR E95 24°
- 78504-0301; FLIR E95 24° + 14°
- 78506-0301; FLIR E95 24° + 14° & 42°
- 78505-0301; FLIR E95 24° + 42°
- 78503-0301; FLIR E95 42°
- 78507-0301; FLIR E95 42° + 14°
- 63901-0101; FLIR E4
- 63906-0604; FLIR E4 (incl. Wi-Fi)
- 63905-0501; FLIR E5
- 63909-0904; FLIR E5 (incl. Wi-Fi)
- 63902-0202; FLIR E6
- 63907-0704; FLIR E6 (incl. Wi-Fi)
- 63903-0303; FLIR E8
- 63908-0805; FLIR E8 (incl. Wi-Fi)
- 79301-0101; FLIR T530 14°
- 79302-0101; FLIR T530 24°
- 79304-0101; FLIR T530 24° + 14°
- 79306-0101; FLIR T530 24° + 14° & 42°
- 79305-0101; FLIR T530 24° + 42°
- 79303-0101; FLIR T530 42°
- 79307-0101; FLIR T530 42° + 14°
- 79301-0201; FLIR T540 14°
- 79302-0201; FLIR T540 24°
- 79304-0201; FLIR T540 24° + 14°



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 79306-0201; FLIR T540 24° + 14° & 42°
- 79305-0201; FLIR T540 24° + 42°
- 79303-0201; FLIR T540 42°
- 79307-0201; FLIR T540 42° + 14°
- 72001-0101; FLIR C2
- 72002-0202; FLIR C2 Educational Kit
- 72003-0303; FLIR C3 (incl. Wi-Fi)
- 72003-0404; FLIR C3 (incl. Wi-Fi) Educational Kit

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Website

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Customer support

<http://support.flir.com>



General description

Hard transport case for FLIR Ex-series

Physical data

Weight	1.75 kg (3.86 lb.)
Size (L x W x H)	303 x 206 x 128 mm (11.9 x 18.1 x 5.0 in.)
Color	Black

Shipping information

Packaging, weight	1.750 kg
Packaging, size	303 x 206 x 128 mm
EAN-13	7332558004913 4743254001022 (Estonia plant)
UPC-12	845188004873
Country of origin	Estonia

Compatible with the following products:

- 63901-0101; FLIR E4
- 63906-0604; FLIR E4 (incl. Wi-Fi)
- 63905-0501; FLIR E5
- 63909-0904; FLIR E5 (incl. Wi-Fi)
- 63902-0202; FLIR E6
- 63907-0704; FLIR E6 (incl. Wi-Fi)
- 63903-0303; FLIR E8
- 63908-0805; FLIR E8 (incl. Wi-Fi)

P/N: 19250-100

Revision

34464

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
This device is a viewport which consist of a crystal "glass" window, mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared light to allow use of infrared thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.	
Power system	
Voltage	Any range
Environmental data	
Environment	Indoor/outdoor type 4/12
Operating temperature range	Maximum: 260°C (500°F)
Storage temperature range	Optics, maximum: 1357°C (2474°F)
Physical data	
Size (L x W x H)	25.5 x 73 x 86 mm (1.0 x 2.87 x 3.36 in.)
Viewing aperture diameter	45 mm (1.77 in.)
Material	Optics: CaF2 (Calcium Fluoride Crystal) Body: Anodized aluminum Hardware: steel
Comments to physical data	Required hole diameter, nominal: 60.3 mm (2.375 in.) Greenlee Punch: 76BB Maximum pullout strength: 658 kg (1450 lb.)
Lens	
Waveband	Broadband IR: short-, mid-, and longwave
Visible light spectrum	Yes
Certifications	
Certification	UL, IP67, NEMA Type 4/12, CSA
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> IR window Case Mounting instruction Additional safety screw
Packaging, weight	0.24 kg (0.53 lb.)
Packaging, size	120 x 115 x 40 mm (4.7 x 4.5 x 1.6 in.)



IR Window 2 in

P/N: 19250-100

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Shipping information

EAN-13	4743254000728
UPC-12	845188002817
Country of origin	Estonia

Supplies & accessories:

P/N: 19251-100

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

This device is a viewport which consist of a crystal "glass" window, mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared light to allow use of infrared thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.

Power system

Voltage	Any range
---------	-----------

Environmental data

Environment	Indoor/outdoor type 4/12
Operating temperature range	Maximum: 260°C (500°F)
Storage temperature range	Optics, maximum: 1357°C (2474°F)

Physical data

Size (L x W x H)	26.9 x 99 x 107 mm (1.05 x 3.89 x 4.22 in.)
Viewing aperture diameter	69 mm (2.71 in.)
Material	Optics: CaF ₂ (Calcium Fluoride Crystal) Body: Anodized aluminum Hardware: steel
Comments to physical data	Required hole diameter, nominal: 88.9 mm (3.5 in.) Greenlee Punch: 739BB Maximum pullout strength: 1656 kg (3650 lb.)

Lens

Waveband	Broadband IR: short-, mid-, and longwave
Visible light spectrum	Yes

Certifications

Certification	UL, IP67, NEMA Type 4/12, CSA
---------------	-------------------------------

Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> IR window Case Mounting instruction Additional safety screw
Packaging, weight	0.39 kg (0.86 lb.)
Packaging, size	130 x 140 x 40 mm (5.12 x 5.51 x 1.58 in.)
EAN-13	4743254000735



IR Window 3 in.

P/N: 19251-100

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Shipping information

UPC-12

845188002824

Country of origin

Estonia

Supplies & accessories:

P/N: 19252-100

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34468

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
This device is a viewport which consist of a crystal "glass" window, mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared light to allow use of infrared thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.	
Power system	
Voltage	Any range
Environmental data	
Environment	Indoor/outdoor type 4/12
Operating temperature range	Maximum: 260°C (500°F)
Storage temperature range	Optics, maximum: 1357°C (2474°F)
Physical data	
Size (L × W × H)	29.3 × 127 × 137 mm (1.15 × 5.01 × 5.37 in.)
Viewing aperture diameter	89 mm (3.50 in.)
Material	Optics: CaF ₂ (Calcium Fluoride Crystal) Body: Anodized aluminum Hardware: steel
Comments to physical data	Required hole diameter, nominal: 114.3 mm (4.5 in.) Greenlee Punch: 742BB Maximum pullout strength: 1678 kg (3700 lb.)
Lens	
Waveband	Broadband IR: short-, mid-, and longwave
Visible light spectrum	Yes
Certifications	
Certification	UL, IP67, NEMA Type 4/12, CSA
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • IR window • Case • Mounting instruction • Additional safety screw
Packaging, weight	0.46 kg (1.01 lb.)
Packaging, size	165 × 175 × 40 mm (6.50 × 6.89 × 1.58 in.)



IR Window 4 in.

P/N: 19252-100

Revision

34468

Last modified

2016-03-18 15:44 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Shipping information

EAN-13	4743254000742
UPC-12	845188002831
Country of origin	Estonia

Supplies & accessories:

P/N: T199806

Revision

42932

Last modified

2017-05-30 15:32 UTC+1

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Website

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<http://support.flir.com>

**General description**

The Extended Warranty Package covers parts and labour for your IR camera, consumables not included.

FLIR Systems warrants its products to be free from defects caused by faulty material or poor workmanship, for a period specified above. **NO PRODUCT IS WARRANTED TO BE MERCHANTABILITY OR FIT FOR ANY PARTICULAR USE OR APPLICATION.** The warranty is void if the buyer damages the item due to misuse, abuse, modification, processing, or integration with other items. FLIR Systems' maximum liability under this warranty is limited to the obligation to replace or, at its sole option, to credit Buyer's account up to the purchase price.

Download

Contact info can be found at:

<http://support.flir.com>

Compatible with the following products:

- 63901-0101; FLIR E4
- 63906-0604; FLIR E4 (incl. Wi-Fi)
- 63905-0501; FLIR E5
- 63909-0904; FLIR E5 (incl. Wi-Fi)
- 63902-0202; FLIR E6
- 63907-0704; FLIR E6 (incl. Wi-Fi)
- 63903-0303; FLIR E8
- 63908-0805; FLIR E8 (incl. Wi-Fi)

P/N: T198529

Revision

42932

Last modified

2017-05-30 15:32 UTC+1

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General description	
Pouch, including shoulder strap, for FLIR Ex and ix series.	

Physical data	
Size (L x W x H)	270.0 x 145.0 x 115.0 mm (10.6 x 5.7 x 4.5 in.)
Color	Black

Shipping information	
List of contents	<ul style="list-style-type: none"> Pouch Shoulder strap
Packaging, weight	0.530 kg
Packaging, size	303 x 206 x 128 mm
EAN-13	7332558004906 4743254001039 (Estonia plant)
UPC-12	845188004880
Country of origin	Estonia

Compatible with the following products:

- 63901-0101; FLIR E4
- 63906-0604; FLIR E4 (incl. Wi-Fi)
- 63905-0501; FLIR E5
- 63909-0904; FLIR E5 (incl. Wi-Fi)
- 63902-0202; FLIR E6
- 63907-0704; FLIR E6 (incl. Wi-Fi)
- 63903-0303; FLIR E8
- 63908-0805; FLIR E8 (incl. Wi-Fi)

P/N: T198534

Revision

42932

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
Power supply USB-micro.	

Power system	
AC operation	90–264 VAC, 50/60 Hz, output 5.0 VDC, 2.1 A
Power	10.5 W

Physical data	
Size (L × W × H)	58.0 × 38.0 × 31.0 mm (2.3 × 1.5 × 1.2 in.)
Cable length	1.2 m (3.9 ft.)

Shipping information	
Packaging, weight	0.200 kg
Packaging, size	170 × 75 × 65 mm
EAN-13	7332558004852 4743254001084 (Estonia plant)
UPC-12	845188004934
Country of origin	Estonia

Compatible with the following products:

- 63901-0101; FLIR E4
- 63906-0604; FLIR E4 (incl. Wi-Fi)
- 63905-0501; FLIR E5
- 63909-0904; FLIR E5 (incl. Wi-Fi)
- 63902-0202; FLIR E6
- 63907-0704; FLIR E6 (incl. Wi-Fi)
- 63903-0303; FLIR E8
- 63908-0805; FLIR E8 (incl. Wi-Fi)
- 72001-0101; FLIR C2
- 72002-0202; FLIR C2 Educational Kit
- 72003-0303; FLIR C3 (incl. Wi-Fi)
- 72003-0404; FLIR C3 (incl. Wi-Fi) Educational Kit

P/N: 19250-200

Revision

34465

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2016-03-18 15:41 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Part name	IRW-2S
Material number	19250-200
Part description	Stainless steel IR window, 2" diameter
<p>This device is a viewport that consist of a crystal "glass" window mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared (IR) light to allow use of IR thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.</p>	

Power system	
Voltage	Any range

Lens	
Waveband	Broadband IR: short-, mid-, and longwave
Visible light spectrum	Yes

Certifications	
Certifications	UL, IP67, NEMA Type 4/12, CSA

Physical data	
Weight	0.5 kg (1 lb.)
Dimensions (H x W x L)	26.9 mm x 99 mm x 107 mm (1.05" x 3.89" x 4.22")
Material	Optics: CaF ₂ (calcium fluoride crystal). Body: stainless steel AISI 316. Hardware: steel
Color	Metallic silver

Shipping information	
Packaging type	Color box
Packaging contents	<ul style="list-style-type: none"> IR window Case Mounting instructions Additional safety screw
Unit weight	0.54 kg (1.2 lb)
Each dimensions (H x W x L)	38.1 mm x 107.95 mm x 127 mm (1.5" x 4.25" x 5")
EAN-13	4743254001510



SS IR window 2''

P/N: 19250-200

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Shipping information	
UPC-12	845188007584
Country of origin	Estonia
Tariff Code	9027.90.5450

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Supplies and accessories

P/N: 19251-200

Revision

34467

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2016-03-18 15:43 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Part name	IRW-3S
Material number	19251-200
Part description	Stainless steel IR window, 3" diameter
<p>This device is a viewport that consist of a crystal "glass" window mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared (IR) light to allow use of IR thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.</p>	
Power system	
Voltage	Any range
Environmental	
Environment	Indoor/outdoor type 4/12
Operating temperature range	Maximum: 260°C (500°F)
Storage temperature range	Optics, maximum: 1357°C (2474°F)
Certifications	
Certifications	UL, IP67, NEMA Type 4/12, CSA
Physical data	
Weight:	0.7 kg (1.55 lb.)
Dimensions (H x W x L)	26.9 mm x 99 mm x 107 mm (1.05" x 3.89" x 4.22")
Material	Optics: CaF ₂ (calcium fluoride crystal). Body: stainless steel AISI 316. Hardware: steel
Color	Metallic silver
Lens	
Waveband	Broadband IR: short-, mid-, and longwave
Visible light spectrum	Yes
Shipping information	
Packaging type	Color box



SS IR window 3"

P/N: 19251-200

Revision

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Shipping information	
Packaging contents	<ul style="list-style-type: none">• IR window• Case• Mounting instruction• Additional safety screw
Unit weight	0.77 kg (1.7 lb.)
Unit dimensions (H x W x L)	38.1 mm x 127 mm x 139.7 mm (1.5" x 5" x 5.5")
EAN-13	4743254001527
UPC-12	845188007591
Country of origin	Estonia
Tariff code	9027.90.5450

Technical support	
Website	http://support.flir.com
E-mail	TMSupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Supplies and accessories

P/N: 19252-200

Revision

34469

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Website

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Customer support

<http://support.flir.com>



Part name	IRW-4S
Material number	19252-200
Part description	Stainless steel IR window, 4" diameter
<p>This device is a viewport that consist of a crystal "glass" window mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared (IR) light to allow use of IR thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.</p>	

Power system	
Voltage	Any range

Environmental	
Environment	Indoor/outdoor type 4/12
Operating temperature range	Maximum: 260°C (500°F)
Storage temperature range	Optics, maximum: 1357°C (2474°F)

Certifications	
Certifications	UL, IP67, NEMA Type 4/12, CSA

Physical data	
Weight:	1.18 kg (2.6 lb.)
Dimensions (H x W x L)	26.9 mm x 99 mm x 107 mm (1.05" x 3.89" x 4.22")
Material	Optics: CaF ₂ (calcium fluoride crystal). Body: stainless steel AISI 316. Hardware: steel
Color	Metallic silver

Lens	
Waveband	Broadband IR: short-, mid-, and longwave
Visible light spectrum	Yes

Shipping information	
Packaging type	Color box
Packaging contents	<ul style="list-style-type: none"> IR window Case Mounting instruction Additional safety screw
Unit weight	1.32 kg (2.9 lb.)



SS IR window 4"

P/N: 19252-200

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Shipping information	
Unit dimensions (H x W x L)	38.1 mm x 165.1 mm x 177.8 mm (1.5" x 6.5" x 7")
EAN-13	4743254001534
UPC-12	845188007607
Country of origin	Estonia
Tariff code	9027.90.5450

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Supplies and accessories

P/N: T911093

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Website

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General description

Tool belt for FLIR camera pouches.

Physical data

Weight	0.117 kg (0.26 lb.)
Length	1.44 m (4.7 ft.)
Color	Black

Shipping information

Packaging, type	Cardboard box
List of contents	• Tool belt
Packaging, weight	0.318 kg (0.7 lb.)
Packaging, size	243 × 165 × 82 mm (9.6 × 6.5 × 3.2 in.)
EAN-13	7332558003442 4743254000384 (Estonia plant)
UPC-12	845188003210
Country of origin	Estonia

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)

P/N: T911093

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Website

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Customer support

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- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 63901-0101; FLIR E4
- 63906-0604; FLIR E4 (incl. Wi-Fi)
- 63905-0501; FLIR E5
- 63909-0904; FLIR E5 (incl. Wi-Fi)
- 63902-0202; FLIR E6
- 63907-0704; FLIR E6 (incl. Wi-Fi)
- 63903-0303; FLIR E8
- 63908-0805; FLIR E8 (incl. Wi-Fi)

P/N: T198533

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
This cable is used to connect the infrared camera with a computer, using the USB protocol.	

Physical data	
Weight	60 g (2.1 oz.)
Cable length	1.8 m (5.9 ft.)
Connector	Standard USB-A to USB Micro-B

Shipping information	
Packaging, weight	0.100 kg
Packaging, size	170 × 75 × 65 mm
EAN-13	7332558004869 4743254001077 (Estonia plant)
UPC-12	845188004927
Country of origin	Estonia

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 63901-0101; FLIR E4
- 63906-0604; FLIR E4 (incl. Wi-Fi)
- 63905-0501; FLIR E5
- 63909-0904; FLIR E5 (incl. Wi-Fi)
- 63902-0202; FLIR E6
- 63907-0704; FLIR E6 (incl. Wi-Fi)
- 63903-0303; FLIR E8
- 63908-0805; FLIR E8 (incl. Wi-Fi)
- 73701-0101; FLIR K2
- 72001-0101; FLIR C2
- 72002-0202; FLIR C2 Educational Kit
- 72003-0303; FLIR C3 (incl. Wi-Fi)
- 72003-0404; FLIR C3 (incl. Wi-Fi) Educational Kit

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Accessories for FLIR Exx series

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P/N: T198125

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
Stand-alone 2-bay battery charger, including power supply with multi plugs.	
Power system	
AC operation	100–240 VAC, 50/60 Hz, 12 VDC out
Power	3000 mA at 12 VDC
Physical data	
Size (L × W × H)	133 × 86 × 51 mm (5.3 × 3.4 × 2.0 in.)
Cable length	1.98 m (6.5 ft.)
Shipping information	
List of contents	<ul style="list-style-type: none"> • Stand-alone 2-bay battery charger • Power supply including cable • EU plug • UK plug • US plug • AU plug
Packaging, weight	0.65 kg
Packaging, size	245 × 165 × 80 mm
EAN-13	7332558003497 4743254000513 (Estonia plant)
UPC-12	845188003487
Country of origin	Estonia

Compatible with the following products:

- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72203-0411; FLIR K33
- 72203-0511; FLIR K53
- 72201-0106; FLIR K45
- 72201-0206; FLIR K55
- 72202-0303; FLIR K65

P/N: T199363ACC

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
High capacity battery for the IR camera.	

Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	3.7 V
Battery capacity	4.4 Ah, at +20°C (+68°F)
Charging temperature	0°C to +45°C (+32°F to +113°F)

Environmental data	
Battery storage temperature range	-40°C to +70°C (-40°F to +158°F)

Physical data	
Weight	0.11 kg (0.24 lb.)
Size (L x W x H)	78 x 40 x 22 mm (3.1 x 1.6 x 0.9 in.)

Shipping information	
Packaging, weight	0.15 kg
Packaging, size	170 x 75 x 60 mm
EAN-13	4743254002548
UPC-12	845188012854
Country of origin	Estonia

Compatible with the following products:

- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

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Website

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Customer support

<http://support.flir.com>



General description	
Headset with Bluetooth for wireless connection with the infrared camera.	

Data communication interfaces	
Bluetooth	Connection to the infrared camera
Audio	Headset including microphone

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Headset • Ear clip • Charger • Multi plugs • USB cable Std A to Mini-B
Packaging, weight	278 g (9.8 oz.)
Packaging, size	183 × 136 × 63 mm (7.2 × 5.35 × 2.48 in.)
EAN-13	7332558006337
UPC-12	845188006686
Country of origin	Sweden

Compatible with the following products:

- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)

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Website

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- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 84502-0201; FLIR E53 24°
- 78501-0101; FLIR E75 14°
- 78502-0101; FLIR E75 24°
- 78504-0101; FLIR E75 24° + 14°
- 78506-0101; FLIR E75 24° + 14° & 42°
- 78505-0101; FLIR E75 24° + 42°
- 78503-0101; FLIR E75 42°
- 78507-0101; FLIR E75 42° + 14°
- 78501-0201; FLIR E85 14°
- 78502-0201; FLIR E85 24°
- 78504-0201; FLIR E85 24° + 14°
- 78506-0201; FLIR E85 24° + 14° & 42°
- 78505-0201; FLIR E85 24° + 42°
- 78503-0201; FLIR E85 42°
- 78507-0201; FLIR E85 42° + 14°
- 78501-0301; FLIR E95 14°
- 78502-0301; FLIR E95 24°
- 78504-0301; FLIR E95 24° + 14°
- 78506-0301; FLIR E95 24° + 14° & 42°
- 78505-0301; FLIR E95 24° + 42°
- 78503-0301; FLIR E95 42°
- 78507-0301; FLIR E95 42° + 14°
- 79301-0101; FLIR T530 14°
- 79302-0101; FLIR T530 24°
- 79304-0101; FLIR T530 24° + 14°
- 79306-0101; FLIR T530 24° + 14° & 42°
- 79305-0101; FLIR T530 24° + 42°
- 79303-0101; FLIR T530 42°
- 79307-0101; FLIR T530 42° + 14°
- 79301-0201; FLIR T540 14°
- 79302-0201; FLIR T540 24°



Bluetooth Headset

P/N: T197771ACC

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Website

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Customer support

<http://support.flir.com>

- 79304-0201; FLIR T540 24° + 14°
- 79306-0201; FLIR T540 24° + 14° & 42°
- 79305-0201; FLIR T540 24° + 42°
- 79303-0201; FLIR T540 42°
- 79307-0201; FLIR T540 42° + 14°

P/N: T199839

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Website

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Customer support

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General description

General Maintenance package offers a complete 14 points inspection and calibration service (for one lens combination). Shipping cost not included.

14-point inspection program:

- Perform a complete operational check.
- Fusion calibration and laser alignment, when applicable.
- Verify all internal cable and PCB connections.
- Clean the viewfinder and check the optics.
- Upgrade the internal camera software to the latest revisions.
- Perform minor repairs.
- Verify and/or re-equalize as needed each temperature range for image uniformity.
- Verify standard lens calibration (optional: other or specially engineered lenses).
- Verify ambient temperature compensation as needed.
- Recalibration to ensure factory specifications are met.
- Calibrate temperature ranges up to +1500°C, when applicable.
- Perform a quality-approved acceptance test procedure.
- Provide a calibration label with the next due date.
- Provide a calibration certificate (optional: extended calibration certificate with measured values).

Download

Contact info can be found at:

<http://support.flir.com>

Compatible with the following products:

- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 78502-0101; FLIR E75 24°
- 78504-0101; FLIR E75 24° + 14°
- 78506-0101; FLIR E75 24° + 14° & 42°
- 78505-0101; FLIR E75 24° + 42°
- 78503-0101; FLIR E75 42°
- 78507-0101; FLIR E75 42° + 14°
- 78502-0201; FLIR E85 24°
- 78504-0201; FLIR E85 24° + 14°
- 78506-0201; FLIR E85 24° + 14° & 42°
- 78505-0201; FLIR E85 24° + 42°
- 78503-0201; FLIR E85 42°
- 78507-0201; FLIR E85 42° + 14°
- 78502-0301; FLIR E95 24°
- 78504-0301; FLIR E95 24° + 14°
- 78506-0301; FLIR E95 24° + 14° & 42°
- 78505-0301; FLIR E95 24° + 42°
- 78503-0301; FLIR E95 42°
- 78507-0301; FLIR E95 42° + 14°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
This cable is used to power the infrared camera from the cigarette lighter socket in a car.	
Note: This is the same product as p/n 1196497.	

Physical data	
Cable length	1.2 m (3.9 ft.)

Shipping information	
Packaging, type	Cardboard box
Packaging, weight	0.125 kg (0.28 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558004340 4743254001435 (Estonia plant)
UPC-12	845188004361
Country of origin	Sweden

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)

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Website

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Customer support

<http://support.flir.com>

- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 74902-0101; FLIR GFx320 14.5° fixed lens
- 74902-0102; FLIR GFx320 24° fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72203-0411; FLIR K33



Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.

P/N: T198509

Revision

42932

Last modified

2017-05-30 15:32 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 72203-0511; FLIR K53
- 72201-0106; FLIR K45
- 72201-0206; FLIR K55
- 72202-0303; FLIR K65

P/N: T199233

Revision

32685

Last modified

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Website

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Customer support

<http://support.flir.com>



General description

The FLIR Atlas SDK for .NET is a software development kit that enables developers to create applications. Supported by help files and sample code, developers can add functionality or collaborate with other FLIR products to get the result they want in their application.

Key features:

- Supports communication and streaming using FireWire, Gigabit, RTSP, and USB interfaces.
- Gives the user full control of the camera.
- Supports recording of images using FireWire, Gigabit, RTSP, and USB interfaces.
- Converts 16-bit signal pixels into temperature data, for maximum user flexibility.
- Allows 16-bit temperature linear, histogram, and signal outputs.

Release notes

Version	3.1
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Shipping information

Packaging, type	Cardboard box
List of contents	Download card with printed license key
Packaging, weight	0.056 kg (0.123 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558011126
UPC-12	845188012014
Country of origin	Sweden

System requirements

Operating system	<ul style="list-style-type: none"> • Windows 7 (32- and 64-bit) • Windows 8 (32- and 64-bit) • Windows 10 (32- and 64-bit)
------------------	---

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case

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Website

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Customer support

<http://support.flir.com>

- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 73309-0102; FLIR A35 f=9 mm with SC kit
- 83225-0101; FLIR A35 FOV 13 (60 Hz, ver. 2017)
- 83213-0102; FLIR A35 FOV 25 (60 Hz, ver. 2017)
- 83207-0102; FLIR A35 FOV 45 (60 Hz, ver. 2017)
- 83250-0101; FLIR A35 FOV 6.5 (60 Hz, ver. 2017)
- 83209-0102; FLIR A35 FOV 69 (30 Hz, ver. 2017)
- 73413-0102; FLIR A65 f=13 mm with SC kit (30 Hz)
- 73513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 75050-0101; FLIR A65 FOV 12.4 (30 Hz, ver. 2016)
- 75025-0101; FLIR A65 FOV 25 (30 Hz, ver. 2016)
- 75013-0101; FLIR A65 FOV 45 (30 Hz, ver. 2016)
- 75010-0101; FLIR A65 FOV 6.2 (30 Hz, ver. 2016)
- 75007-0101; FLIR A65 FOV 90 (30 Hz, ver. 2016)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°

P/N: T199233

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 65702-0102; FLIR GF343 24° Fixed lens
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 71502-0101; FLIR G300 a 14.5° fixed lens
- 71502-0102; FLIR G300 a 24° fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 63901-0101; FLIR E4
- 63906-0604; FLIR E4 (incl. Wi-Fi)
- 63905-0501; FLIR E5
- 63909-0904; FLIR E5 (incl. Wi-Fi)
- 63902-0202; FLIR E6
- 63907-0704; FLIR E6 (incl. Wi-Fi)
- 63903-0303; FLIR E8
- 63908-0805; FLIR E8 (incl. Wi-Fi)
- 72001-0101; FLIR C2
- 72002-0202; FLIR C2 Educational Kit
- 72003-0303; FLIR C3 (incl. Wi-Fi)
- 72003-0404; FLIR C3 (incl. Wi-Fi) Educational Kit

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Revision

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Website

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General description

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- Gives the user full control of the camera.
- Supports recording of images using FireWire, Gigabit, RTSP, and USB interfaces.
- Converts 16-bit signal pixels into temperature data, for maximum user flexibility.
- Allows 16-bit temperature linear, histogram, and signal outputs.

Release notes

Version	3.1
---------	-----

Shipping information

Packaging, type	Cardboard box
List of contents	Download card with printed license key
Packaging, weight	0.056 kg (0.123 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558011133
UPC-12	845188012021
Country of origin	Sweden

System requirements

Operating system	MATLAB 2015 (32- and 64-bit) and one of the following operating systems: <ul style="list-style-type: none"> • Windows 7 (32- and 64-bit) • Windows 8 (32- and 64-bit) • Windows 10 (32- and 64-bit)
------------------	--

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)

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Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 73309-0102; FLIR A35 f=9 mm with SC kit
- 83225-0101; FLIR A35 FOV 13 (60 Hz, ver. 2017)
- 83213-0102; FLIR A35 FOV 25 (60 Hz, ver. 2017)
- 83207-0102; FLIR A35 FOV 45 (60 Hz, ver. 2017)
- 83250-0101; FLIR A35 FOV 6.5 (60 Hz, ver. 2017)
- 83209-0102; FLIR A35 FOV 69 (30 Hz, ver. 2017)
- 73413-0102; FLIR A65 f=13 mm with SC kit (30 Hz)
- 73513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 75050-0101; FLIR A65 FOV 12.4 (30 Hz, ver. 2016)
- 75025-0101; FLIR A65 FOV 25 (30 Hz, ver. 2016)
- 75013-0101; FLIR A65 FOV 45 (30 Hz, ver. 2016)
- 75010-0101; FLIR A65 FOV 6.2 (30 Hz, ver. 2016)
- 75007-0101; FLIR A65 FOV 90 (30 Hz, ver. 2016)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°

P/N: T199234

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 65702-0102; FLIR GF343 24° Fixed lens
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 71502-0101; FLIR G300 a 14.5° fixed lens
- 71502-0102; FLIR G300 a 24° fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 63901-0101; FLIR E4
- 63906-0604; FLIR E4 (incl. Wi-Fi)
- 63905-0501; FLIR E5
- 63909-0904; FLIR E5 (incl. Wi-Fi)
- 63902-0202; FLIR E6
- 63907-0704; FLIR E6 (incl. Wi-Fi)
- 63903-0303; FLIR E8
- 63908-0805; FLIR E8 (incl. Wi-Fi)
- 72001-0101; FLIR C2
- 72002-0202; FLIR C2 Educational Kit
- 72003-0303; FLIR C3 (incl. Wi-Fi)
- 72003-0404; FLIR C3 (incl. Wi-Fi) Educational Kit

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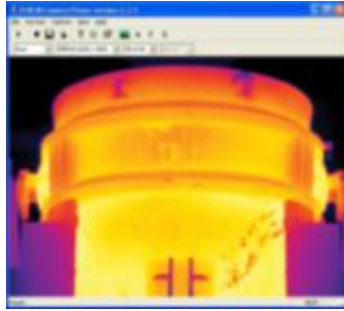
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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
FLIR IR Camera Player is a PC-based remote control and viewer that you can use with cameras from FLIR Systems.	
You can perform one or more of the following with FLIR IR Camera Player:	
<ul style="list-style-type: none"> Record a video stream from the camera. Save a frame from the video stream as a snapshot image (*.bmp). Autofocus, focus far, and focus near. Autoadjust the camera image. Freeze the camera image. Save a camera image in the camera. Change Color palette. Add an image description and a text comment to an image. 	
You connect a camera in one of the following ways:	
<ul style="list-style-type: none"> Ethernet FireWire USB 	
Download	
This software is a freeware. To download, click the following link:	
http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=89	
Release notes	
Version	2.3.3
New features	Main improvements in version 2.3.3: <ul style="list-style-type: none"> Added latest device drivers (1.9.1.0). Various bugfixes Main improvements in version 2.2.7: <ul style="list-style-type: none"> Added support for FLIR Ax5 series.
System requirements	
Operating system	<ul style="list-style-type: none"> Windows XP, 32-bit Windows Vista, 32-bit/64-bit Windows 7, 32-bit/64-bit

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)



FLIR IR Camera Player

P/N: DSW-10000

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Website

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Customer support

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- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 73309-0102; FLIR A35 f=9 mm with SC kit
- 83225-0101; FLIR A35 FOV 13 (60 Hz, ver. 2017)
- 83213-0102; FLIR A35 FOV 25 (60 Hz, ver. 2017)
- 83207-0102; FLIR A35 FOV 45 (60 Hz, ver. 2017)
- 83250-0101; FLIR A35 FOV 6.5 (60 Hz, ver. 2017)
- 83209-0102; FLIR A35 FOV 69 (30 Hz, ver. 2017)
- 73413-0102; FLIR A65 f=13 mm with SC kit (30 Hz)
- 73513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 75050-0101; FLIR A65 FOV 12.4 (30 Hz, ver. 2016)
- 75025-0101; FLIR A65 FOV 25 (30 Hz, ver. 2016)
- 75013-0101; FLIR A65 FOV 45 (30 Hz, ver. 2016)
- 75010-0101; FLIR A65 FOV 6.2 (30 Hz, ver. 2016)
- 75007-0101; FLIR A65 FOV 90 (30 Hz, ver. 2016)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)

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Website

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Customer support

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- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

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Website

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General description

FLIR Reporter Professional is a powerful software for creating compelling and professional, fully customized, easy-to-interpret maintenance reports.

Professional Report Wizard guides you step-by-step in combining all IR inspection data - infrared and visual images, temperature measurements, and text notes – into a professional, easy-to-interpret maintenance report.

Key features:

- Flexible report page design and layout for customized reports
- Use quick insert function to easily create custom report pages
- Fully integrated with standard Microsoft Word
- Generates reports in standard MS Office format and PDF-format
- Powerful temperature analysis
- Triple Fusion Picture-in-Picture (movable, sizable, scalable)
- Rapid report manager supporting automatic report generation by drag-and-drop
- Support for MSX (Multi-Spectral Dynamic Imaging) images
- Support for sketch images in both IR and visual with on/off toggling
- Support for same FOV ("Field of View Match")
- Grid settings
- Trending functionality
- Automatic link to Google™ Maps for images with GPS coordinates
- Automatic summary table for the report
- Fine tune images and make full temperature analysis directly in Microsoft Word
- Spell check
- Create your own formulas including measurement values from images
- Play radiometric sequences directly in the report
- Search functionality to quickly finding images for your report
- Panorama tool for combining several images to a larger image
- Support for GF series IR images
- Auto Update function
- Support for METERLiNK™ data
- *.docx compatibility

Download

Download your copy of FLIR Reporter Professional here:

<http://support.flir.com/reporter>

Release notes

Version	9.2
New features	<p>News in 9.2</p> <ul style="list-style-type: none"> • Option to hide Zoom Viewer • Option to extract Visual image from MSI/Fusion image. • Support for the new FLIR Ex and Exx series cameras. • Support for multispectral images. • Support for auto-oriented images. • Various bug fixes.



FLIR Reporter Professional (license only)

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Website

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Customer support

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Shipping information	
Packaging, type	Cardboard box
List of contents	• FLIR Reporter Professional scratchcard
Packaging, weight	0.135 kg (0.3 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005286 4743254001893 (Estonia plant)
UPC-12	845188005498
Country of origin	Sweden

System requirements	
Operating system	• Windows 7, 32-bit • Windows 7, 64-bit • Windows 8, 32-bit • Windows 8, 64-bit • Windows 10, 32-bit • Windows 10, 64-bit
Software requirements	• Office 2007 (32-bit) • Office 2010 (32-bit) • Office 2013 (32-bit) • Office 2016 (32-bit)

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)

P/N: T198586

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

FLIR ResearchIR Max + HSDR 4 contains all the features of FLIR ResearchIR Max 4, plus support for FLIR High Speed Data Recorder (HSDR) products.

Main features:

- Pre/post-recording.
- Mathematical processing toolbox.
- Image filtering toolbox.
- Radiometric digital detail enhancement (DDE) improves dramatically the understanding of the thermal image, while maintaining radiometric measurement accuracy.
- View, record and store images at high speed.
- Post-processing of fast thermal events.
- Generate time-temperature plots from live images or recorded sequences.
- Advanced start/stop recording conditions.
- Unlimited number of analysis functions (spot, line, area).
- File organizer.
- Zoom and pan allows a closer look.
- Multiple dockable objects for plots and statistics.
- Export images and results to bitmap, video, Excel, MATLAB or CSV formats
- Local scale gain control on measurement - automatically adjusts the contrast in a specific part of the image.

FLIR ResearchIR Max + HSDR 4 in combination with a FLIR thermal imaging camera is the perfect solution for any R&D or scientific application. It will allow researchers in all fields to make the smallest of temperature differences visible and to thoroughly analyze the thermal process in real-time.

Download

Download your copy of FLIR ResearchIR Max + HSDR 4 here (hardware security device required to run the software):

<http://support.flir.com/rir4>

Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • FLIR ResearchIR Max + HSDR 4 download card. • Hardware security device.
Packaging, weight	0.068 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558007280
UPC-12	845188007652
Country of origin	Sweden

Compatible with the following products:

- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°



FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens



FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

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Main features:

- Pre/post-recording.
- Mathematical processing toolbox.
- Image filtering toolbox.
- Radiometric digital detail enhancement (DDE) improves dramatically the understanding of the thermal image, while maintaining radiometric measurement accuracy.
- View, record and store images at high speed.
- Post-processing of fast thermal events.
- Generate time-temperature plots from live images or recorded sequences.
- Advanced start/stop recording conditions.
- Unlimited number of analysis functions (spot, line, area).
- File organizer.
- Zoom and pan allows a closer look.
- Multiple dockable objects for plots and statistics.
- Export images and results to bitmap, video, Excel, MATLAB or CSV formats
- Local scale gain control on measurement - automatically adjusts the contrast in a specific part of the image.

FLIR ResearchIR Max + HSDR 4 in combination with a FLIR thermal imaging camera is the perfect solution for any R&D or scientific application. It will allow researchers in all fields to make the smallest of temperature differences visible and to thoroughly analyze the thermal process in real-time.

Download

Download your copy of FLIR ResearchIR Max + HSDR 4 here (evaluation copy only – license key required):

<http://support.flir.com/rir4>

Shipping information

Packaging, type	Cardboard box
List of contents	FLIR ResearchIR Max + HSDR 4 download card, incl. license key.
Packaging, weight	0.068 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558010464
UPC-12	845188011116
Country of origin	Sweden

Compatible with the following products:

- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case



FLIR ResearchIR Max + HSDR 4 (printed license key)

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Website

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Customer support

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- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)



FLIR ResearchIR Max + HSDR 4 (printed license key)

P/N: T199014

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

P/N: T199044

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

FLIR ResearchIR Max + HSDR 4 contains all the features of FLIR ResearchIR Max 4, plus support for FLIR High Speed Data Recorder (HSDR) products.

Main features:

- Pre/post-recording.
- Mathematical processing toolbox.
- Image filtering toolbox.
- Radiometric digital detail enhancement (DDE) improves dramatically the understanding of the thermal image, while maintaining radiometric measurement accuracy.
- View, record and store images at high speed.
- Post-processing of fast thermal events.
- Generate time-temperature plots from live images or recorded sequences.
- Advanced start/stop recording conditions.
- Unlimited number of analysis functions (spot, line, area).
- File organizer.
- Zoom and pan allows a closer look.
- Multiple dockable objects for plots and statistics.
- Export images and results to bitmap, video, Excel, MATLAB or CSV formats
- Local scale gain control on measurement - automatically adjusts the contrast in a specific part of the image.

FLIR ResearchIR Max + HSDR 4 in combination with a FLIR thermal imaging camera is the perfect solution for any R&D or scientific application. It will allow researchers in all fields to make the smallest of temperature differences visible and to thoroughly analyze the thermal process in real-time.

Download

Download your copy of FLIR ResearchIR Max + HSDR 4 here (evaluation copy only – license key required):

<http://support.flir.com/rir4>

Shipping information

Packaging, type	Cardboard box
List of contents	FLIR ResearchIR Max + HSDR 4 download card, incl. license key.
Packaging, weight	0.068 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558010495
UPC-12	845188011147
Country of origin	Sweden

Compatible with the following products:

- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case



FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)



FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

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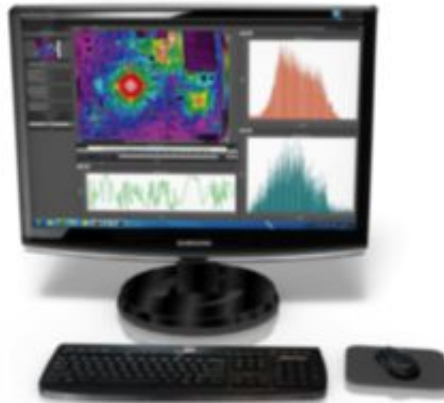
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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

FLIR ResearchIR Max 4 is aimed at R&D and science professionals who use thermal imaging cameras with a cooled or uncooled detectors. FLIR ResearchIR Max makes the most of a thermal imaging camera, and allows high-speed recording and advanced thermal pattern analysis. FLIR ResearchIR Max is the perfect tool for industrial R&D.

Main features:

- Pre/post-recording.
- Mathematical processing toolbox.
- Image filtering toolbox.
- Radiometric digital detail enhancement (DDE) improves dramatically the understanding of the thermal image, while maintaining radiometric measurement accuracy.
- View, record and store images at high speed.
- Post-processing of fast thermal events.
- Generate time-temperature plots from live images or recorded sequences.
- Advanced start/stop recording conditions.
- Unlimited number of analysis functions (spot, line, area).
- File organizer.
- Zoom and pan allows a closer look.
- Multiple dockable objects for plots and statistics.
- Export images and results to bitmap, video, Excel, MATLAB or CSV formats
- Local scale gain control on measurement - automatically adjusts the contrast in a specific part of the image.

FLIR ResearchIR Max 4 in combination with a FLIR thermal imaging camera is the perfect solution for any R&D or scientific application. It will allow researchers in all fields to make the smallest of temperature differences visible and to thoroughly analyze the thermal process in real-time.

Download

Download your copy of FLIR ResearchIR Max 4 here (hardware security device required to run the software):

<http://support.flir.com/rir4>

Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • FLIR ResearchIR Max 4 download card. • Hardware security device.
Packaging, weight	0.066 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558007266
UPC-12	845188007638
Country of origin	Sweden

Compatible with the following products:

- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0401; FLIR T1050sc 12°



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Website

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Customer support

<http://support.flir.com>

- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 84502-0201; FLIR E53 24°
- 78501-0101; FLIR E75 14°
- 78502-0101; FLIR E75 24°
- 78504-0101; FLIR E75 24° + 14°
- 78506-0101; FLIR E75 24° + 14° & 42°
- 78505-0101; FLIR E75 24° + 42°
- 78503-0101; FLIR E75 42°
- 78507-0101; FLIR E75 42° + 14°
- 78501-0201; FLIR E85 14°
- 78502-0201; FLIR E85 24°
- 78504-0201; FLIR E85 24° + 14°
- 78506-0201; FLIR E85 24° + 14° & 42°
- 78505-0201; FLIR E85 24° + 42°
- 78503-0201; FLIR E85 42°
- 78507-0201; FLIR E85 42° + 14°
- 78501-0301; FLIR E95 14°
- 78502-0301; FLIR E95 24°
- 78504-0301; FLIR E95 24° + 14°
- 78506-0301; FLIR E95 24° + 14° & 42°
- 78505-0301; FLIR E95 24° + 42°
- 78503-0301; FLIR E95 42°
- 78507-0301; FLIR E95 42° + 14°
- 79301-0101; FLIR T530 14°
- 79302-0101; FLIR T530 24°
- 79304-0101; FLIR T530 24° + 14°
- 79306-0101; FLIR T530 24° + 14° & 42°
- 79305-0101; FLIR T530 24° + 42°
- 79303-0101; FLIR T530 42°
- 79307-0101; FLIR T530 42° + 14°
- 79301-0201; FLIR T540 14°
- 79302-0201; FLIR T540 24°
- 79304-0201; FLIR T540 24° + 14°
- 79306-0201; FLIR T540 24° + 14° & 42°
- 79305-0201; FLIR T540 24° + 42°
- 79303-0201; FLIR T540 42°
- 79307-0201; FLIR T540 42° + 14°

P/N: T199013

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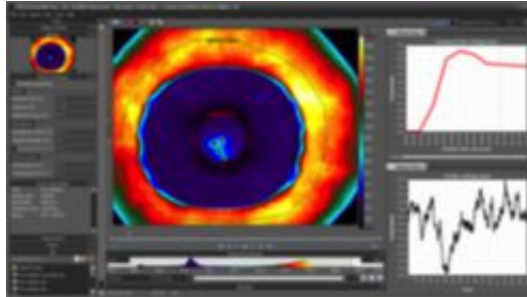
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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

FLIR ResearchIR Max 4.0 is aimed at R&D and science professionals who use thermal imaging cameras with a cooled or uncooled detectors. FLIR ResearchIR Max makes the most of a thermal imaging camera, and allows high-speed recording and advanced thermal pattern analysis. FLIR ResearchIR Max is the perfect tool for industrial R&D.

Main features:

- Pre/post-recording.
- Mathematical processing toolbox.
- Image filtering toolbox.
- Radiometric digital detail enhancement (DDE) improves dramatically the understanding of the thermal image, while maintaining radiometric measurement accuracy.
- View, record and store images at high speed.
- Post-processing of fast thermal events.
- Generate time-temperature plots from live images or recorded sequences.
- Advanced start/stop recording conditions.
- Unlimited number of analysis functions (spot, line, area).
- File organizer.
- Zoom and pan allows a closer look.
- Multiple dockable objects for plots and statistics.
- Export images and results to bitmap, video, Excel, MATLAB or CSV formats
- Local scale gain control on measurement - automatically adjusts the contrast in a specific part of the image.

FLIR ResearchIR Max 4 in combination with a FLIR thermal imaging camera is the perfect solution for any R&D or scientific application. It will allow researchers in all fields to make the smallest of temperature differences visible and to thoroughly analyze the thermal process in real-time.

Download

Download your copy of FLIR ResearchIR Max 4 here (evaluation copy only – license key required):

<http://support.flir.com/rir4>

Shipping information

Packaging, type	Cardboard box
List of contents	FLIR ResearchIR Max 4 download card, incl. license key.
Packaging, weight	0.066 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558010457
UPC-12	845188011109
Country of origin	Sweden

Compatible with the following products:

- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case



P/N: T199013

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)



P/N: T199013

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 84502-0201; FLIR E53 24°
- 78501-0101; FLIR E75 14°
- 78502-0101; FLIR E75 24°
- 78504-0101; FLIR E75 24° + 14°
- 78506-0101; FLIR E75 24° + 14° & 42°
- 78505-0101; FLIR E75 24° + 42°
- 78503-0101; FLIR E75 42°
- 78507-0101; FLIR E75 42° + 14°
- 78501-0201; FLIR E85 14°
- 78502-0201; FLIR E85 24°
- 78504-0201; FLIR E85 24° + 14°
- 78506-0201; FLIR E85 24° + 14° & 42°
- 78505-0201; FLIR E85 24° + 42°
- 78503-0201; FLIR E85 42°
- 78507-0201; FLIR E85 42° + 14°
- 78501-0301; FLIR E95 14°
- 78502-0301; FLIR E95 24°
- 78504-0301; FLIR E95 24° + 14°
- 78506-0301; FLIR E95 24° + 14° & 42°
- 78505-0301; FLIR E95 24° + 42°
- 78503-0301; FLIR E95 42°
- 78507-0301; FLIR E95 42° + 14°
- 79301-0101; FLIR T530 14°
- 79302-0101; FLIR T530 24°
- 79304-0101; FLIR T530 24° + 14°
- 79306-0101; FLIR T530 24° + 14° & 42°
- 79305-0101; FLIR T530 24° + 42°
- 79303-0101; FLIR T530 42°
- 79307-0101; FLIR T530 42° + 14°
- 79301-0201; FLIR T540 14°
- 79302-0201; FLIR T540 24°
- 79304-0201; FLIR T540 24° + 14°
- 79306-0201; FLIR T540 24° + 14° & 42°
- 79305-0201; FLIR T540 24° + 42°
- 79303-0201; FLIR T540 42°
- 79307-0201; FLIR T540 42° + 14°

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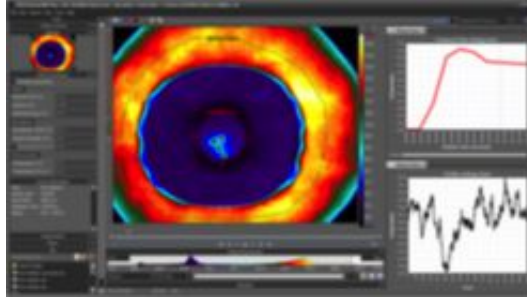
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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description
FLIR ResearchIR Max 4 is aimed at R&D and science professionals who use thermal imaging cameras with a cooled or uncooled detectors. FLIR ResearchIR Max makes the most of a thermal imaging camera, and allows high-speed recording and advanced thermal pattern analysis. FLIR ResearchIR Max is the perfect tool for industrial R&D.
Main features:
<ul style="list-style-type: none"> • Pre/post-recording. • Mathematical processing toolbox. • Image filtering toolbox. • Radiometric digital detail enhancement (DDE) improves dramatically the understanding of the thermal image, while maintaining radiometric measurement accuracy. • View, record and store images at high speed. • Post-processing of fast thermal events. • Generate time-temperature plots from live images or recorded sequences. • Advanced start/stop recording conditions. • Unlimited number of analysis functions (spot, line, area). • File organizer. • Zoom and pan allows a closer look. • Multiple dockable objects for plots and statistics. • Export images and results to bitmap, video, Excel, MATLAB or CSV formats • Local scale gain control on measurement - automatically adjusts the contrast in a specific part of the image.
FLIR ResearchIR Max 4 in combination with a FLIR thermal imaging camera is the perfect solution for any R&D or scientific application. It will allow researchers in all fields to make the smallest of temperature differences visible and to thoroughly analyze the thermal process in real-time.

Download
Download your copy of FLIR ResearchIR Max 4 here (evaluation copy only – license key required):
http://support.flir.com/rir4

Shipping information	
Packaging, type	Cardboard box
List of contents	FLIR ResearchIR Max 4 download card, incl. license key.
Packaging, weight	0.066 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558010488
UPC-12	845188011130
Country of origin	Sweden

Compatible with the following products:

- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case



FLIR ResearchIR Max 4 Upgrade (printed license key)

P/N: T199043

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Website

<http://www.flir.com>

Customer support

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- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)



FLIR ResearchIR Max 4 Upgrade (printed license key)

P/N: T199043

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 84502-0201; FLIR E53 24°
- 78501-0101; FLIR E75 14°
- 78502-0101; FLIR E75 24°
- 78504-0101; FLIR E75 24° + 14°
- 78506-0101; FLIR E75 24° + 14° & 42°
- 78505-0101; FLIR E75 24° + 42°
- 78503-0101; FLIR E75 42°
- 78507-0101; FLIR E75 42° + 14°
- 78501-0201; FLIR E85 14°
- 78502-0201; FLIR E85 24°
- 78504-0201; FLIR E85 24° + 14°
- 78506-0201; FLIR E85 24° + 14° & 42°
- 78505-0201; FLIR E85 24° + 42°
- 78503-0201; FLIR E85 42°
- 78507-0201; FLIR E85 42° + 14°
- 78501-0301; FLIR E95 14°
- 78502-0301; FLIR E95 24°
- 78504-0301; FLIR E95 24° + 14°
- 78506-0301; FLIR E95 24° + 14° & 42°
- 78505-0301; FLIR E95 24° + 42°
- 78503-0301; FLIR E95 42°
- 78507-0301; FLIR E95 42° + 14°
- 79301-0101; FLIR T530 14°
- 79302-0101; FLIR T530 24°
- 79304-0101; FLIR T530 24° + 14°
- 79306-0101; FLIR T530 24° + 14° & 42°
- 79305-0101; FLIR T530 24° + 42°
- 79303-0101; FLIR T530 42°
- 79307-0101; FLIR T530 42° + 14°
- 79301-0201; FLIR T540 14°
- 79302-0201; FLIR T540 24°
- 79304-0201; FLIR T540 24° + 14°
- 79306-0201; FLIR T540 24° + 14° & 42°
- 79305-0201; FLIR T540 24° + 42°
- 79303-0201; FLIR T540 42°
- 79307-0201; FLIR T540 42° + 14°

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Website

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<http://support.flir.com>



General description	
FLIR ResearchIR Standard 4.0 is aimed at the R&D benchtop testing environment for users of uncooled cameras. FLIR ResearchIR Standard provides the core analysis tools needed for rapid testing and assessment of thermal issues.	
Main features:	
<ul style="list-style-type: none"> • View live imagery from the camera • Record snapshots or movies to disk. • Post-processing of fast thermal events. • Generate time-temperature plots from live images or recorded sequences. • Analysis by region (spot, line, area). • File organizer. • Zoom and pan allows a closer look. • Multiple dockable objects for plots and statistics. • Export images and results to bitmap, Excel, or CSV formats 	
FLIR ResearchIR Standard 4 in combination with a FLIR thermal imaging camera is the perfect solution for any benchtop testing application application.	

Shipping information	
List of contents	<ul style="list-style-type: none"> • FLIR ResearchIR Standard download card. • Hardware security device.
Packaging, weight	0.069 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558008638
UPC-12	845188009151
Country of origin	Sweden

Compatible with the following products:

- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 78502-0101; FLIR E75 24°
- 78504-0101; FLIR E75 24° + 14°
- 78506-0101; FLIR E75 24° + 14° & 42°



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- 78505-0101; FLIR E75 24° + 42°
- 78503-0101; FLIR E75 42°
- 78507-0101; FLIR E75 42° + 14°
- 78502-0201; FLIR E85 24°
- 78504-0201; FLIR E85 24° + 14°
- 78506-0201; FLIR E85 24° + 14° & 42°
- 78505-0201; FLIR E85 24° + 42°
- 78503-0201; FLIR E85 42°
- 78507-0201; FLIR E85 42° + 14°
- 78502-0301; FLIR E95 24°
- 78504-0301; FLIR E95 24° + 14°
- 78506-0301; FLIR E95 24° + 14° & 42°
- 78505-0301; FLIR E95 24° + 42°
- 78503-0301; FLIR E95 42°
- 78507-0301; FLIR E95 42° + 14°
- 79302-0101; FLIR T530 24°
- 79306-0101; FLIR T530 24° + 14° & 42°
- 79305-0101; FLIR T530 24° + 42°
- 79304-0101; FLIR T530 24° + 14°
- 79303-0101; FLIR T530 42°
- 79307-0101; FLIR T530 42° + 14°
- 79302-0201; FLIR T540 24°
- 79304-0201; FLIR T540 24° + 14°
- 79306-0201; FLIR T540 24° + 14° & 42°
- 79305-0201; FLIR T540 24° + 42°
- 79303-0201; FLIR T540 42°
- 79307-0201; FLIR T540 42° + 14°

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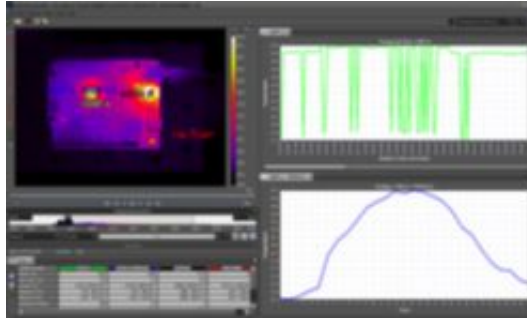
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General description
FLIR ResearchIR Standard 4 is aimed at the R&D benchtop testing environment for users of uncooled cameras. FLIR ResearchIR Standard provides the core analysis tools needed for rapid testing and assessment of thermal issues.
Main features:
<ul style="list-style-type: none"> • View live imagery from the camera • Record snapshots or movies to disk. • Post-processing of fast thermal events. • Generate time-temperature plots from live images or recorded sequences. • Analysis by region (spot, line, area). • File organizer. • Zoom and pan allows a closer look. • Multiple dockable objects for plots and statistics. • Export images and results to bitmap, Excel, or CSV formats
FLIR ResearchIR Standard 4 in combination with a FLIR thermal imaging camera is the perfect solution for any benchtop testing application application.

Download
Download your copy of FLIR ResearchIR 4 here (evaluation copy only – license key required):
http://support.flir.com/rir4

Shipping information	
List of contents	FLIR ResearchIR Standard download card, incl. license key.
Packaging, weight	0.069 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558010440
UPC-12	845188011093
Country of origin	Sweden

Compatible with the following products:

- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72002-0202; FLIR C2 Educational Kit

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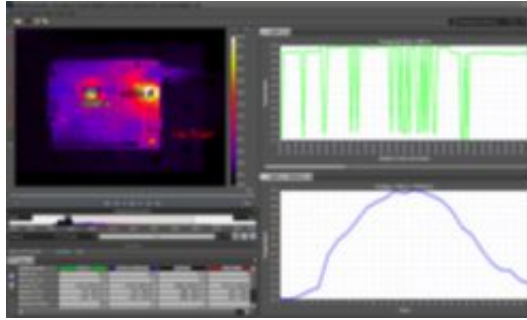
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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

FLIR ResearchIR Standard 4 is aimed at the R&D benchtop testing environment for users of uncooled cameras. FLIR ResearchIR Standard provides the core analysis tools needed for rapid testing and assessment of thermal issues.

Main features:

- View live imagery from the camera
- Record snapshots or movies to disk.
- Post-processing of fast thermal events.
- Generate time-temperature plots from live images or recorded sequences.
- Analysis by region (spot, line, area).
- File organizer.
- Zoom and pan allows a closer look.
- Multiple dockable objects for plots and statistics.
- Export images and results to bitmap, Excel, or CSV formats

FLIR ResearchIR Standard 4 in combination with a FLIR thermal imaging camera is the perfect solution for any benchtop testing application.

Download

Download your copy of FLIR ResearchIR 4 here (evaluation copy only – license key required):

<http://support.flir.com/rir4>

Shipping information

List of contents	FLIR ResearchIR Standard download card, incl. license key.
Packaging, weight	0.069 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558010471
UPC-12	845188011123
Country of origin	Sweden

Compatible with the following products:

- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)



FLIR ResearchIR Standard 4 Upgrade (printed license key)

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- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description
FLIR Tools is a software suite specifically designed to provide an easy way to update your camera and create inspection reports.
Key features:
<ul style="list-style-type: none"> • Report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR). • Manual IR/Visual Image Grouping • Import images from your camera to your computer. • Apply filters when searching for images. • Search all text in images and text annotations. • Store the five latest search criteria's. • Lay out, move, and resize measurement tools on any infrared image. • Create PDF imagesheets of any images of your choice. • Add headers, footers, and logos to imagesheets. • Create PDF reports for images of your choice. • Add headers, footers, and logos to reports. • Report editor (report page preview and snap to grid). • Sort function (by date, groups sorted by path, and groups sorted by date). • Browse and purchase infrared cameras, software, and accessories in the webshop. • Software localized to 21 languages. • Support for MSX (Multi-Spectral Dynamic Imaging) Images • Support for Sketch Images on both IR and Visual with toggling ON/OFF feature. • Support for Same FOV (Field of View Match) • Display of Compass Information in Edit and in Report. • Display of GPS Information in Edit and in Report. • Camera update (applies to FLIR Ex, Kxx, Exx and T6xx series only).

Download
This software is a freeware. To download, click the following link:
http://support.flir.com/tools

Release notes	
Version	5.9
New features in version 5.9	<ul style="list-style-type: none"> • Additional trigger options for FLIR K53, K55, and K65 cameras • Added user account registration and login • New Pleora version support • Various bug fixes
New features in version 5.7	<ul style="list-style-type: none"> • Five modes supported for K65, K55, and K53 cameras. • Support for Kx3 cameras. • Auto gain mode now available for K2 cameras. • Various bug fixes.
New features in version 5.5	<ul style="list-style-type: none"> • Added support for Microsoft Office 2016 (32-bit) for the FLIR Word Reporting module. • Various bug fixes.

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Release notes	
New features in version 5.3	<ul style="list-style-type: none"> Support for the FLIR T1020 and T1040 cameras for import, edit, report creation, and camera update. Support for the FLIR K2 camera for configuration, video streaming, and camera update. Delta (difference) readings are now on one line instead of two.
New features in version 5.2.1	<ul style="list-style-type: none"> Option added to change color distribution mode (histogram equalization, signal linear, temperature linear). Option added to extract photos at their full field of view. Various bug fixes.
New features in version 5.2	<ul style="list-style-type: none"> Support for auto-adjusting a region. Support for zoom. Various bug fixes.
New features in version 5.1	<ul style="list-style-type: none"> Improved import performance. Added support for video recording settings for FLIR Kxx series. Added support for importing video files from FLIR Kxx series. Added support for FLIR C2 camera. Various bug fixes.
New features in version 5.0	<ul style="list-style-type: none"> Local object parameters for measurement tools. Save a report in-process with the ability to edit at a later time. Pull-down menus for text annotations. Variable playback speed for recordings. Show or hide min./max./avg. temperature, and hot/cold markers, for areas and lines. Smoother display for low-resolution images. UltraMax image enhancement. Dropping support for Windows XP. Various bug fixes.
New features in version 4.1	<ul style="list-style-type: none"> Previous/next in Edit mode. Clone in the Library. Extract visual photo from a multispectral image. Import *.mp4, *.seq, and *.csq files from the camera. Playback/edit *.seq and *.csq files. Scale enhancement for the FLIR GF3xx series. Auto resize of thumbnails during importing for the FLIR T6xx series. Grouping/ungrouping now added. Various bug fixes.
New features in version 4.0	<ul style="list-style-type: none"> Support for the new FLIR Ex and Exx series cameras. Interactive quick start guide when connecting a FLIR camera. Improved library view. Support for multispectral images. Support for auto-oriented images. Various bug fixes.
New features in version 3.1	<ul style="list-style-type: none"> Support for FLIR K series cameras. Interactive quick start guide when connecting a FLIR K series camera. Live image streaming from FLIR K series cameras. PC-side configuration of FLIR K series cameras. New report templates for DC images only added. Various bug fixes.
New features in version 3.0	<ul style="list-style-type: none"> Add folder to library. Support for isotherms and color alarms Image description for both IR and DC. Export functionality (*.avi, *.csv). Microsoft Windows 8 (32- and 64-bit) New web installer Various bug fixes.

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Website

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Release notes	
New features in version 2.2	<ul style="list-style-type: none"> Camera tab: <ul style="list-style-type: none"> Logging feature in Camera Tab Recording and playback of SEQ files. Various bug fixes.
New features in version 2.1	<ul style="list-style-type: none"> New Text Comment Template Tab: <ul style="list-style-type: none"> Create, Edit and Transfer templates to and from any FLIR Camera. Import and Export of Templates. Support for MSX (Multi-Spectral Dynamic Imaging) Images Support for Sketch Images on both IR and Visual with toggling ON/OFF feature. Support for Same FOV (Field of View Match) Display of Compass Information in Edit and in Report. Display of GPS Information in Edit and in Report. <ul style="list-style-type: none"> Direct Link to Google Maps for GPS Tagged images from Report. Support for 3x5 and 6x5 A-series cameras
New features in version 2.0	<ul style="list-style-type: none"> Camera tab: <ul style="list-style-type: none"> Camera connection with FLIR UVC cameras. Measurement data analysis. Plotting. Snapshot saving with text annotation and plot. Performance improvement for large reports: can now create reports and imagesheets of up to 200 pages. Various bug fixes.
New features in version 1.3	<ul style="list-style-type: none"> Import from ix series cameras. Add and remove a form from a group. Text comments are now saved in the infrared image. The indexing engine can create groups from IR, DC, and text annotations when indexing the paths in the watch folder. Arrow tool in the report toolbar. Reorder pages. Text annotations can now be edited in the report. New report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR). New sample images.
New features in version 1.2 SP1	<ul style="list-style-type: none"> Various bug fixes.
New features in version 1.2	<ul style="list-style-type: none"> Search function: <ul style="list-style-type: none"> Store the five latest search criterias. Search in all texts in images and text annotations. Sort function: <ul style="list-style-type: none"> By date. Groups sorted by by path. Groups sorted by date. Report editor: <ul style="list-style-type: none"> Report page preview. Snap to grid. Various bug fixes.
New features in version 1.1 SP1	<ul style="list-style-type: none"> Extension to the camera update functionality. Various bug fixes
New features in version 1.1	<ul style="list-style-type: none"> Software localized to 21 languages. Camera update. (Exx, T6xx) Option to rotate an infrared image in the infrared editor.

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> Digital download, or CD-ROM
Packaging, weight	0.106 kg (0.23 lb.)



FLIR Tools

P/N: T198584

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>**Shipping information**

Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005279
UPC-12	845188005481
Country of origin	Sweden

System requirements

Operating system	<ul style="list-style-type: none">• Windows 7, 32-bit• Windows 7, 64-bit• Windows 8, 32-bit• Windows 8, 64-bit• Windows 10, 32-bit• Windows 10, 64-bit
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Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 73309-0102; FLIR A35 f=9 mm with SC kit
- 83225-0101; FLIR A35 FOV 13 (60 Hz, ver. 2017)
- 83213-0102; FLIR A35 FOV 25 (60 Hz, ver. 2017)
- 83207-0102; FLIR A35 FOV 45 (60 Hz, ver. 2017)
- 83250-0101; FLIR A35 FOV 6.5 (60 Hz, ver. 2017)
- 83209-0102; FLIR A35 FOV 69 (30 Hz, ver. 2017)
- 73413-0102; FLIR A65 f=13 mm with SC kit (30 Hz)
- 73513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 75050-0101; FLIR A65 FOV 12.4 (30 Hz, ver. 2016)
- 75025-0101; FLIR A65 FOV 25 (30 Hz, ver. 2016)
- 75013-0101; FLIR A65 FOV 45 (30 Hz, ver. 2016)
- 75010-0101; FLIR A65 FOV 6.2 (30 Hz, ver. 2016)
- 75007-0101; FLIR A65 FOV 90 (30 Hz, ver. 2016)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72001-0101; FLIR C2
- 72002-0202; FLIR C2 Educational Kit
- 72003-0303; FLIR C3 (incl. Wi-Fi)
- 72003-0404; FLIR C3 (incl. Wi-Fi) Educational Kit

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Website

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Customer support

<http://support.flir.com>



General description	
FLIR Tools Mobile is an intuitive Android app for analyzing, managing, and distributing infrared images.	
Key features:	
<ul style="list-style-type: none"> • Remote control • MSX • Images with sketch on DC and IR • Images with field of view follow • Editable text comments • Emissivity table • Import images from your Wi-Fi-enabled camera. • Connect and stream infrared images from the camera. • Connect and stream measurement data from FLIR Test & Measurement meters • Lay out and move measurement tools on the image. • Read out temperature measurements. • Create and configure temporal plots based on results of measurement tools on the infrared image. • Log measurement data and export it as a *.csv file. • Save a measurement scenario as a data snapshot. • Zoom in on images. • On the Android device, remotely take snapshots when a camera is connected. • On the camera, take snapshots that will automatically be saved on the Android device. • Delete images on the Android device. • Display an image's GPS coordinates on Google Maps. • Create and e-mail reports. • Save images in the Android device photo library. • Send images to FTP sites and other file-sharing services (Dropbox, Box.net, etc.). • Display image information, e.g., object parameters, text comments, and file details. • Play back voice comments. • Change the level and span. • Change general settings in the app. • Change the palette. 	
Download	
The application can be downloaded from Android Market or Amazon Marketplace, see the link below.	
https://market.android.com/details?id=com.flir.viewer	
Release notes	
Version	3.8.0
New features	Main improvements in version 3.8.0: <ul style="list-style-type: none"> • Fixed loading of Japanese help files. • Fixed import bug for Samsung S6. • Fixed opening image taken from CAT S60. • Support for Ex, C3, and the new Exx cameras. • Import from Work folders. • Area measurement and length measurement feature based on object distance. • Various bug fixes.



FLIR Tools Mobile (Android Application)

P/N: APP-10002

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

System requirements

Operating system

- Android 4.03 and later

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

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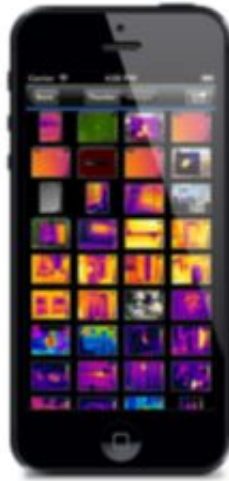
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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



<p>General description</p> <p>FLIR Tools Mobile lets professional thermographers use an iPad, iPhone, or iPod touch to see and capture live, streaming infrared video and stills from select FLIR cameras.</p> <p>With FLIR Tools Mobile the camera can be stationed in one area and operated wirelessly from another – highly useful for IR inspections of energized equipment or performing IR surveys in hard-to-reach locations and harsh working environments. Streaming video and remote access also gives decision makers and others on your team a valuable opportunity to observe and collaborate in the thermal imaging process.</p>
<p>Using FLIR Tools Mobile, you can do one or more of the following:</p> <ul style="list-style-type: none"> • Import images from your infrared camera • Lay out and move measurement tools on the image • Read out temperature measurements • Zoom in on images • On the iPhone/iPad, remotely take snapshots when a camera is connected • On the camera, take snapshots that will automatically be saved in the iPhone/iPad • Delete any images on the iPhone/iPad • Display an image's GPS coordinates on Google Maps • Create and e-mail imagesheets • Create and e-mail reports • Print imagesheets and reports to any AirPrint-enabled printer • Save images to iPhone/iPad photo library • Send images to FTP sites and other file sharing services (Dropbox, Box.net, etc.) • Display image information, such as object parameters, text comments, file information, etc. • Play-back voice comments • Change level and span • Change general settings in the app • Change palette
<p>FLIR Tools Mobile lets you take control of the following features on selected cameras:</p> <ul style="list-style-type: none"> • Remote control of your FLIR camera. • Support for MSX (Multi-Spectral Dynamic Imaging) images. • Support for sketch images in both IR and visual with on/off toggling. • Support for same FOV ("Field of View Match"). • Editable text comments. • Auto and manual focus • Level and span • Color palettes • Temperature measurement analytics • Spot • Area box • Circle • Line • Parameter settings • Emissivity • Reflected temperature • Relative humidity • Atmospheric temperature • IR and visible light image blending • Picture-in-picture • Thermal fusion • Image storage • MPEG 4 video • Radiometric JPEG stills



FLIR Tools Mobile (iPad/iPhone Application)

P/N: APP-10003

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Download
The application can be downloaded from App Store, see the link below.
http://itunes.apple.com/app/flir-tools/id511247887?mt=8

Release notes	
Version	1.8.2
New features	Main improvements in version 1.8.2: Various bug fixes.

System requirements	
Operating system	• iOS 8.0 or later
Hardware requirements	• iPhone • iPad • iPod

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
<p>Compared to FLIR Tools, FLIR Tools+ has the following features:</p> <ul style="list-style-type: none"> • Radiometric Panorama incl. MSX • Radiometric IR Video Recording • Advanced Reporting <p>FLIR Tools/Tools+ is a software suite specifically designed to provide an easy way to update your camera and create inspection reports.</p>	
<p>FLIR Tools+ main features:</p> <ul style="list-style-type: none"> • Manual IR/Visual Image Grouping • Radiometric Panorama incl. MSX • Radiometric IR Video Recording • Advanced Reporting for Microsoft Office. • Report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR). • Import images from your camera to your computer. • Apply filters when searching for images. • Search all text in images and text annotations. • Store the five latest search criteria's. • Lay out, move, and resize measurement tools on any infrared image. • Create PDF imagesheets of any images of your choice. • Add headers, footers, and logos to imagesheets. • Create PDF reports for images of your choice. • Add headers, footers, and logos to reports. • Report editor (report page preview and snap to grid). • Sort function (by date, groups sorted by path, and groups sorted by date). • Browse and purchase infrared cameras, software, and accessories in the webshop. • Software localized to 21 languages. • Support for MSX (Multi-Spectral Dynamic Imaging) Images • Support for Sketch Images on both IR and Visual with toggling ON/OFF feature. • Support for Same FOV (Field of View Match) • Display of Compass Information in Edit and in Report. • Display of GPS Information in Edit and in Report. • Camera update (applies to FLIR Ex, Kxx, Exx and T6xx series only). 	

Download	
<p>Download a 30-day evaluation version here:</p>	
<p>http://support.flir.com/toolsplus</p>	

Release notes	
Version	5.9
New features in version 5.9	<ul style="list-style-type: none"> • Additional trigger options for FLIR K53, K55, and K65 cameras • Added user account registration and login • New Pleora version support • Various bug fixes
New features in version 5.7	<ul style="list-style-type: none"> • Five modes supported for K65, K55, and K53 cameras. • Support for Kx3 cameras. • Auto gain mode now available for K2 cameras. • Various bug fixes.



FLIR Tools+ (download card incl. license key)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Release notes	
New features in version 5.5	<ul style="list-style-type: none"> Added support for Microsoft Office 2016 (32-bit) for the FLIR Word Reporting module. Various bug fixes.
New features in version 5.3	<ul style="list-style-type: none"> Support for the FLIR T1020 and T1040 cameras for import, edit, report creation, and camera update. Support for the FLIR K2 camera for configuration, video streaming, and camera update. Delta (difference) readings are now on one line instead of two.
New features in version 5.2.1	<ul style="list-style-type: none"> Option added to change color distribution mode (histogram equalization, signal linear, temperature linear). "Rapid Report" shortcuts added to simplify reporting using a drag-and-drop operation. Option added to extract photos at their full field of view. Two new templates for express export added (Photo_Large and Thermalx1 Photox2). Various bug fixes.
New features in version 5.2	<ul style="list-style-type: none"> Support for auto-adjusting a region. Support for zoom. Express Microsoft Word reporting (*.docx). Various bug fixes.
New features in version 5.1	<ul style="list-style-type: none"> Improved import performance. Added support for video recording settings for FLIR Kxx series. Added support for importing video files from FLIR Kxx series. Added support for FLIR C2 camera. Various bug fixes.
New features in version 5.0	<ul style="list-style-type: none"> Local object parameters for measurement tools. Save a report in-process with the ability to edit at a later time. Pull-down menus for text annotations. Variable playback speed for recordings. Show or hide min./max./avg. temperature, and hot/cold markers, for areas and lines. Smoother display for low-resolution images. UltraMax image enhancement. Dropping support for Windows XP. Various bug fixes.
New features in version 4.1	<ul style="list-style-type: none"> Previous/next in Edit mode. Clone in the Library. Extract visual photo from a multispectral image. Import *.mp4, *.seq, and *.csq files from the camera. Playback/edit *.seq and *.csq files. Scale enhancement for the FLIR GF3xx series. Auto resize of thumbnails during importing for the FLIR T6xx series. Grouping/ungrouping now added. Various bug fixes.
New features in version 4.0	<ul style="list-style-type: none"> Support for the new FLIR Ex and Exx series cameras. Interactive quick start guide when connecting a FLIR camera. Improved library view. Support for multispectral images. Support for auto-oriented images. Various bug fixes.
New features in version 3.1	<ul style="list-style-type: none"> Support for FLIR K series cameras. Interactive quick start guide when connecting a FLIR K series camera. Live image streaming from FLIR K series cameras. PC-side configuration of FLIR K series cameras. New report templates for DC images only added. Various bug fixes.



FLIR Tools+ (download card incl. license key)

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>**Release notes**

New features in version 3.0

- Add folder to library.
- Support for isotherms and color alarms
- Image description for both IR and DC.
- Export functionality (*.avi, *.csv).
- Microsoft Windows 8 (32- and 64-bit)
- New web installer
- Radiometric panorama with MSX images.
- Advanced reports.
- Manual grouping/ungrouping of images.
- Various bug fixes.

New features in version 2.2

- Camera tab:
 - Logging feature in Camera Tab
 - Recording and playback of SEQ files.
- Various bug fixes.

Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• FLIR Tools+ (download card incl. license key)
Packaging, weight	0.059 kg (0.13 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	73325585378 4743254001442 (Estonia plant)
UPC-12	845188005580
Country of origin	Sweden

System requirements

Operating system	<ul style="list-style-type: none">• Windows 7, 32-bit• Windows 7, 64-bit• Windows 8, 32-bit• Windows 8, 64-bit• Windows 10, 32-bit• Windows 10, 64-bit
Software requirements	<ul style="list-style-type: none">• Office 2007 (32-bit)• Office 2010 (32-bit)• Office 2013 (32-bit)• Office 2016 (32-bit)

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 73309-0102; FLIR A35 f=9 mm with SC kit
- 83225-0101; FLIR A35 FOV 13 (60 Hz, ver. 2017)
- 83213-0102; FLIR A35 FOV 25 (60 Hz, ver. 2017)
- 83207-0102; FLIR A35 FOV 45 (60 Hz, ver. 2017)
- 83250-0101; FLIR A35 FOV 6.5 (60 Hz, ver. 2017)
- 83209-0102; FLIR A35 FOV 69 (30 Hz, ver. 2017)
- 73413-0102; FLIR A65 f=13 mm with SC kit (30 Hz)
- 73513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 75050-0101; FLIR A65 FOV 12.4 (30 Hz, ver. 2016)
- 75025-0101; FLIR A65 FOV 25 (30 Hz, ver. 2016)
- 75013-0101; FLIR A65 FOV 45 (30 Hz, ver. 2016)
- 75010-0101; FLIR A65 FOV 6.2 (30 Hz, ver. 2016)
- 75007-0101; FLIR A65 FOV 90 (30 Hz, ver. 2016)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°

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Website

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Customer support

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- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 84502-0201; FLIR E53 24°
- 78501-0101; FLIR E75 14°
- 78502-0101; FLIR E75 24°
- 78504-0101; FLIR E75 24° + 14°
- 78506-0101; FLIR E75 24° + 14° & 42°
- 78505-0101; FLIR E75 24° + 42°
- 78503-0101; FLIR E75 42°
- 78507-0101; FLIR E75 42° + 14°
- 78501-0201; FLIR E85 14°
- 78502-0201; FLIR E85 24°
- 78504-0201; FLIR E85 24° + 14°
- 78506-0201; FLIR E85 24° + 14° & 42°
- 78505-0201; FLIR E85 24° + 42°
- 78503-0201; FLIR E85 42°
- 78507-0201; FLIR E85 42° + 14°
- 78501-0301; FLIR E95 14°
- 78502-0301; FLIR E95 24°
- 78504-0301; FLIR E95 24° + 14°
- 78506-0301; FLIR E95 24° + 14° & 42°
- 78505-0301; FLIR E95 24° + 42°
- 78503-0301; FLIR E95 42°
- 78507-0301; FLIR E95 42° + 14°
- 63901-0101; FLIR E4
- 63906-0604; FLIR E4 (incl. Wi-Fi)
- 63905-0501; FLIR E5
- 63909-0904; FLIR E5 (incl. Wi-Fi)
- 63902-0202; FLIR E6
- 63907-0704; FLIR E6 (incl. Wi-Fi)
- 63903-0303; FLIR E8
- 63908-0805; FLIR E8 (incl. Wi-Fi)
- 79301-0101; FLIR T530 14°
- 79302-0101; FLIR T530 24°
- 79304-0101; FLIR T530 24° + 14°
- 79306-0101; FLIR T530 24° + 14° & 42°
- 79305-0101; FLIR T530 24° + 42°
- 79303-0101; FLIR T530 42°
- 79307-0101; FLIR T530 42° + 14°
- 79301-0201; FLIR T540 14°
- 79302-0201; FLIR T540 24°
- 79304-0201; FLIR T540 24° + 14°



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Website

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Customer support

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- 79306-0201; FLIR T540 24° + 14° & 42°
- 79305-0201; FLIR T540 24° + 42°
- 79303-0201; FLIR T540 42°
- 79307-0201; FLIR T540 42° + 14°
- 72001-0101; FLIR C2
- 72002-0202; FLIR C2 Educational Kit
- 72003-0303; FLIR C3 (incl. Wi-Fi)
- 72003-0404; FLIR C3 (incl. Wi-Fi) Educational Kit

P/N: T199235

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Website

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Customer support

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General description	
The high-temperature lens is an add-on lens that suppresses 50% of the transmission in high-temperature applications.	
<p>NOTE: High-temperature applications may require a heat shield in front of the camera.</p> <ul style="list-style-type: none"> The lens requires factory-calibration together with the camera. 	

Imaging and optical data	
Field of view (FOV)	25° × 19°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
F-number	1.3

Measurement	
Object temperature range	200 to 1200°C (392 to 2192°F)

Physical data	
Weight	0.152 kg
Size (L × D)	27.6 × 47 mm (1.1 × 1.9 in.)

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> Lens Lens case Instruction
Packaging, weight	0.28 kg (0.61 lb.)
Packaging, size	170 × 135 × 135 mm (6.7 × 5.3 × 5.3 in.)
EAN-13	4743254002289
UPC-12	845188012007
Country of origin	Estonia

Compatible with the following products:

- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50



High-temperature lens

P/N: T199235

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Website

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Customer support

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- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

IR lens, 76 mm (6°) with case and mounting support for Exx

P/N: T198113

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General description	
A narrow FOV is used in applications where the object that is going to be monitored is remote from the Camera or when the Camera needs to be far away from the object due to for an example high temperatures.	

Imaging and optical data	
Field of view (FOV)	6° x 4.5°
Minimum focus distance	4 m (13.11 ft.)
Focal length	76 mm (3.0 in.)
Spatial resolution (IFOV)	0.33 mrad
F-number	1.3
Number of lenses	3 (3 asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	3%
Lens note	This lens must be calibrated in a service location if sold separately, otherwise the image will be upside-down.

Physical data	
Weight	Lens: 0.328 kg (0.723 lb.) Support: 0.11 kg (0.243 lb.)
Size (L x D)	106 x 89 mm (4.17 x 3.48 in.), excluding support

Shipping information	
List of contents	<ul style="list-style-type: none"> • Lens • Lens case • Mounting support
EAN-13	7332558005736 4743254001732 (Estonia plant)
UPC-12	845188005948
Country of origin	Sweden

Compatible with the following products:

- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)



IR lens, 76 mm (6°) with case and mounting support for Exx

P/N: T198113

- 64501-0402; FLIR E63 (incl. Wi-Fi)

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Website

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Customer support

<http://support.flir.com>



General description	
This wide angle lens has a field of view almost double that of the standard lens. Perfect for wide or tall targets or when working in crowded spaces.	

Imaging and optical data	
Field of view (FOV)	45° × 33.8°
Minimum focus distance	0.20 m (0.66 ft.)
Focal length	9.66 mm (0.38 in.)
Spatial resolution (IFOV)	Depends on the IR resolution of the camera: 5.18 mrad for 160 × 120 pixels 4.14 mrad for 200 × 150 pixels 3.45 mrad for 240 × 180 pixels 2.59 mrad for 320 × 240 pixels
F-number	1.3

Physical data	
Weight	0.105 kg (0.231 lb.), incl. two lens caps
Size (L × D)	38 × 47 mm (1.5 × 1.9 in.)

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Lens • Lens case
Packaging, weight	0.33 kg (0.73 lb.)
Packaging, size	172 × 131 × 133 mm (6.8 × 5.2 × 5.2 in.)
EAN-13	7332558001141 4743254000834 (Estonia plant)
UPC-12	845188000134
Country of origin	Sweden

Compatible with the following products:

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)



IR lens, f = 10 mm, 45° incl. case

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Website

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Customer support

<http://support.flir.com>

- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

P/N: 1196961

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Website

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Customer support

<http://support.flir.com>



General description

The 15° lens is a popular lens accessory and provides 1.7x magnification compared to the standard lens. Ideal for small or distant targets such as overhead power lines.

Imaging and optical data

Field of view (FOV)	15° × 11.25°
Minimum focus distance	1.2 m (3.93 ft.)
Focal length	30.38 mm (1.2 in.)
Spatial resolution (IFOV)	Depends on the IR resolution of the camera: 1.65 mrad for 160 × 120 pixels 1.32 mrad for 200 × 150 pixels 1.10 mrad for 240 × 180 pixels 0.82 mrad for 320 × 240 pixels
F-number	1.3

Physical data

Weight	0.092 kg (0.203 lb.), incl. two lens caps
Size (L × D)	24 × 58 mm (1.0 × 2.3 in.)

Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Lens • Lens case
Packaging, weight	0.32 kg (0.71 lb.)
Packaging, size	172 × 131 × 133 mm (6.8 × 5.2 × 5.2 in.)
EAN-13	7332558001134 4743254000889 (Estonia plant)
UPC-12	845188000127
Country of origin	Sweden

Compatible with the following products:

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)



IR lens, f = 30 mm, 15° incl. case

P/N: 1196961

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

P/N: 19250-100

Revision

34464

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General description	
This device is a viewport which consist of a crystal "glass" window, mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared light to allow use of infrared thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.	
Power system	
Voltage	Any range
Environmental data	
Environment	Indoor/outdoor type 4/12
Operating temperature range	Maximum: 260°C (500°F)
Storage temperature range	Optics, maximum: 1357°C (2474°F)
Physical data	
Size (L x W x H)	25.5 x 73 x 86 mm (1.0 x 2.87 x 3.36 in.)
Viewing aperture diameter	45 mm (1.77 in.)
Material	Optics: CaF2 (Calcium Fluoride Crystal) Body: Anodized aluminum Hardware: steel
Comments to physical data	Required hole diameter, nominal: 60.3 mm (2.375 in.) Greenlee Punch: 76BB Maximum pullout strength: 658 kg (1450 lb.)
Lens	
Waveband	Broadband IR: short-, mid-, and longwave
Visible light spectrum	Yes
Certifications	
Certification	UL, IP67, NEMA Type 4/12, CSA
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> IR window Case Mounting instruction Additional safety screw
Packaging, weight	0.24 kg (0.53 lb.)
Packaging, size	120 x 115 x 40 mm (4.7 x 4.5 x 1.6 in.)



IR Window 2 in

P/N: 19250-100

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Shipping information	
EAN-13	4743254000728
UPC-12	845188002817
Country of origin	Estonia

Supplies & accessories:

P/N: 19251-100

Revision

34466

Last modified

2016-03-18 15:42 UTC+1

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Website

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General description

This device is a viewport which consist of a crystal "glass" window, mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared light to allow use of infrared thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.

Power system

Voltage	Any range
---------	-----------

Environmental data

Environment	Indoor/outdoor type 4/12
Operating temperature range	Maximum: 260°C (500°F)
Storage temperature range	Optics, maximum: 1357°C (2474°F)

Physical data

Size (L x W x H)	26.9 x 99 x 107 mm (1.05 x 3.89 x 4.22 in.)
Viewing aperture diameter	69 mm (2.71 in.)
Material	Optics: CaF ₂ (Calcium Fluoride Crystal) Body: Anodized aluminum Hardware: steel
Comments to physical data	Required hole diameter, nominal: 88.9 mm (3.5 in.) Greenlee Punch: 739BB Maximum pullout strength: 1656 kg (3650 lb.)

Lens

Waveband	Broadband IR: short-, mid-, and longwave
Visible light spectrum	Yes

Certifications

Certification	UL, IP67, NEMA Type 4/12, CSA
---------------	-------------------------------

Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> IR window Case Mounting instruction Additional safety screw
Packaging, weight	0.39 kg (0.86 lb.)
Packaging, size	130 x 140 x 40 mm (5.12 x 5.51 x 1.58 in.)
EAN-13	4743254000735



IR Window 3 in.

P/N: 19251-100

Revision

34466

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Shipping information

UPC-12

845188002824

Country of origin

Estonia

Supplies & accessories:

P/N: 19252-100

Revision

34468

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2016-03-18 15:44 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

This device is a viewport which consist of a crystal "glass" window, mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared light to allow use of infrared thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.

Power system

Voltage	Any range
---------	-----------

Environmental data

Environment	Indoor/outdoor type 4/12
Operating temperature range	Maximum: 260°C (500°F)
Storage temperature range	Optics, maximum: 1357°C (2474°F)

Physical data

Size (L × W × H)	29.3 × 127 × 137 mm (1.15 × 5.01 × 5.37 in.)
Viewing aperture diameter	89 mm (3.50 in.)
Material	Optics: CaF ₂ (Calcium Fluoride Crystal) Body: Anodized aluminum Hardware: steel
Comments to physical data	Required hole diameter, nominal: 114.3 mm (4.5 in.) Greenlee Punch: 742BB Maximum pullout strength: 1678 kg (3700 lb.)

Lens

Waveband	Broadband IR: short-, mid-, and longwave
Visible light spectrum	Yes

Certifications

Certification	UL, IP67, NEMA Type 4/12, CSA
---------------	-------------------------------

Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • IR window • Case • Mounting instruction • Additional safety screw
Packaging, weight	0.46 kg (1.01 lb.)
Packaging, size	165 × 175 × 40 mm (6.50 × 6.89 × 1.58 in.)



IR Window 4 in.

P/N: 19252-100

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Shipping information

EAN-13	4743254000742
UPC-12	845188002831
Country of origin	Estonia

Supplies & accessories:

P/N: T198487

Revision

42932

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2017-05-30 15:32 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
High capacity battery for the IR camera.	

Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	3.7 V
Battery capacity	4.4 Ah, at +20°C (+68°F)
Charging temperature	0°C to +45°C (+32°F to +113°F)

Environmental data	
Battery storage temperature range	-40°C to +70°C (-40°F to +158°F)

Physical data	
Weight	0.11 kg (0.24 lb.)
Size (L x W x H)	78 x 40 x 22 mm (3.1 x 1.6 x 0.9 in.)

Shipping information	
Packaging, weight	0.15 kg
Packaging, size	170 x 75 x 60 mm
EAN-13	7332558004548 4743254000773 (Estonia plant)
UPC-12	845188004514
Country of origin	Estonia

Compatible with the following products:

- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

P/N: T911650ACC

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
SD Card for data storage (e.g. images)	
Data communication interfaces	
Memory card, size	8 GB
Physical data	
Weight	2 g (0.07 oz.)
Size (L x W x H)	32.0 x 24.0 x 2.1 mm (1.26 x 0.94 x 0.08 in.)
Shipping information	
Packaging, type	Cardboard box
List of contents	• SD Card
Packaging, weight	65 g (2.3 oz.)
Packaging, size	170 x 64 x 75 mm (6.69 x 2.52 x 2.95 in.)
EAN-13	7332558012628
UPC-12	845188013776
Country of origin	Sweden

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)



Memory card SDHC 8 GB

P/N: T911650ACC

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 74902-0101; FLIR GFx320 14.5° fixed lens
- 74902-0102; FLIR GFx320 24° fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)



Memory card SDHC 8 GB

P/N: T911650ACC

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

P/N: T199837

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

The Extended Warranty Package covers parts and labour for your IR camera, consumables not included.

FLIR Systems warrants its products to be free from defects caused by faulty material or poor workmanship, for a period specified above. **NO PRODUCT IS WARRANTED TO BE MERCHANTABILITY OR FIT FOR ANY PARTICULAR USE OR APPLICATION.** The warranty is void if the buyer damages the item due to misuse, abuse, modification, processing, or integration with other items. FLIR Systems' maximum liability under this warranty is limited to the obligation to replace or, at its sole option, to credit Buyer's account up to the purchase price.

Download

Contact info can be found at:

<http://support.flir.com>

Compatible with the following products:

- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 84502-0201; FLIR E53 24°
- 78501-0101; FLIR E75 14°
- 78502-0101; FLIR E75 24°
- 78504-0101; FLIR E75 24° + 14°
- 78506-0101; FLIR E75 24° + 14° & 42°
- 78505-0101; FLIR E75 24° + 42°
- 78503-0101; FLIR E75 42°
- 78507-0101; FLIR E75 42° + 14°
- 78501-0201; FLIR E85 14°
- 78502-0201; FLIR E85 24°
- 78504-0201; FLIR E85 24° + 14°
- 78506-0201; FLIR E85 24° + 14° & 42°
- 78505-0201; FLIR E85 24° + 42°
- 78503-0201; FLIR E85 42°
- 78507-0201; FLIR E85 42° + 14°
- 78501-0301; FLIR E95 14°
- 78502-0301; FLIR E95 24°
- 78504-0301; FLIR E95 24° + 14°
- 78506-0301; FLIR E95 24° + 14° & 42°
- 78505-0301; FLIR E95 24° + 42°
- 78503-0301; FLIR E95 42°
- 78507-0301; FLIR E95 42° + 14°

P/N: T198484

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

Pouch, including shoulder strap, for FLIR Exx series.

Physical data

Color	Black
-------	-------

Shipping information

List of contents	<ul style="list-style-type: none"> • Pouch • Shoulder strap
Packaging, weight	0.135 kg
Packaging, size	303 × 206 × 128 mm
EAN-13	7332558004579 4743254000803 (Estonia plant)
UPC-12	845188004552
Country of origin	Estonia

Compatible with the following products:

- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

P/N: T910814

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
FLIR P/B/SC6xx and FLIR GF3xx series: Power supply, including multiple plugs, to charge the battery when it is inside or outside of the camera.	
FLIR T6xx and FLIR Exx series: Power supply, including multiple plugs, to charge the battery when it is inside the camera or in the battery charger.	
Power system	
AC operation	100–240 VAC, 50/60 Hz, 12 VDC out
Power	3000 mA at 12 VDC
Physical data	
Cable length	1.98 m (6.5 ft.)
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Power supply including cable • EU plug • UK plug • US plug • AU plug
Packaging, weight	0.324 kg (9.7 lb.)
Packaging, size	152 × 78 × 73 mm (6.0 × 3.1 × 2.9 in.)
EAN-13	7332558003794 4743254001763 (Estonia plant)
UPC-12	845188002145
Country of origin	Sweden

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°

P/N: T910814

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens



Power supply, incl. multi plugs

P/N: T910814

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Website

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Customer support

<http://support.flir.com>

- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 74902-0101; FLIR GFx320 14.5° fixed lens
- 74902-0102; FLIR GFx320 24° fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

P/N: 19250-200

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Last modified

2016-03-18 15:41 UTC+1

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Website

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Customer support

<http://support.flir.com>



Part name	IRW-2S
Material number	19250-200
Part description	Stainless steel IR window, 2" diameter
<p>This device is a viewport that consist of a crystal "glass" window mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared (IR) light to allow use of IR thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.</p>	

Power system	
Voltage	Any range

Lens	
Waveband	Broadband IR: short-, mid-, and longwave
Visible light spectrum	Yes

Certifications	
Certifications	UL, IP67, NEMA Type 4/12, CSA

Physical data	
Weight	0.5 kg (1 lb.)
Dimensions (H x W x L)	26.9 mm x 99 mm x 107 mm (1.05" x 3.89" x 4.22")
Material	Optics: CaF ₂ (calcium fluoride crystal). Body: stainless steel AISI 316. Hardware: steel
Color	Metallic silver

Shipping information	
Packaging type	Color box
Packaging contents	<ul style="list-style-type: none"> IR window Case Mounting instructions Additional safety screw
Unit weight	0.54 kg (1.2 lb)
Each dimensions (H x W x L)	38.1 mm x 107.95 mm x 127 mm (1.5" x 4.25" x 5")
EAN-13	4743254001510



SS IR window 2''

P/N: 19250-200

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Shipping information	
UPC-12	845188007584
Country of origin	Estonia
Tariff Code	9027.90.5450

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Supplies and accessories

P/N: 19251-200

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Part name	IRW-3S
Material number	19251-200
Part description	Stainless steel IR window, 3" diameter
<p>This device is a viewport that consist of a crystal "glass" window mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared (IR) light to allow use of IR thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.</p>	

Power system	
Voltage	Any range

Environmental	
Environment	Indoor/outdoor type 4/12
Operating temperature range	Maximum: 260°C (500°F)
Storage temperature range	Optics, maximum: 1357°C (2474°F)

Certifications	
Certifications	UL, IP67, NEMA Type 4/12, CSA

Physical data	
Weight:	0.7 kg (1.55 lb.)
Dimensions (H x W x L)	26.9 mm x 99 mm x 107 mm (1.05" x 3.89" x 4.22")
Material	Optics: CaF ₂ (calcium fluoride crystal). Body: stainless steel AISI 316. Hardware: steel
Color	Metallic silver

Lens	
Waveband	Broadband IR: short-, mid-, and longwave
Visible light spectrum	Yes

Shipping information	
Packaging type	Color box



SS IR window 3"

P/N: 19251-200

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Shipping information	
Packaging contents	<ul style="list-style-type: none">• IR window• Case• Mounting instruction• Additional safety screw
Unit weight	0.77 kg (1.7 lb.)
Unit dimensions (H x W x L)	38.1 mm x 127 mm x 139.7 mm (1.5" x 5" x 5.5")
EAN-13	4743254001527
UPC-12	845188007591
Country of origin	Estonia
Tariff code	9027.90.5450

Technical support	
Website	http://support.flir.com
E-mail	TMSupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Supplies and accessories

P/N: 19252-200

Revision

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Website

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Customer support

<http://support.flir.com>



Part name	IRW-4S
Material number	19252-200
Part description	Stainless steel IR window, 4" diameter
<p>This device is a viewport that consist of a crystal "glass" window mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared (IR) light to allow use of IR thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.</p>	

Power system	
Voltage	Any range

Environmental	
Environment	Indoor/outdoor type 4/12
Operating temperature range	Maximum: 260°C (500°F)
Storage temperature range	Optics, maximum: 1357°C (2474°F)

Certifications	
Certifications	UL, IP67, NEMA Type 4/12, CSA

Physical data	
Weight:	1.18 kg (2.6 lb.)
Dimensions (H x W x L)	26.9 mm x 99 mm x 107 mm (1.05" x 3.89" x 4.22")
Material	Optics: CaF ₂ (calcium fluoride crystal). Body: stainless steel AISI 316. Hardware: steel
Color	Metallic silver

Lens	
Waveband	Broadband IR: short-, mid-, and longwave
Visible light spectrum	Yes

Shipping information	
Packaging type	Color box
Packaging contents	<ul style="list-style-type: none"> IR window Case Mounting instruction Additional safety screw
Unit weight	1.32 kg (2.9 lb.)



SS IR window 4"

P/N: 19252-200

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Shipping information	
Unit dimensions (H x W x L)	38.1 mm x 165.1 mm x 177.8 mm (1.5" x 6.5" x 7")
EAN-13	4743254001534
UPC-12	845188007607
Country of origin	Estonia
Tariff code	9027.90.5450

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Supplies and accessories

P/N: T198485

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Website

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Customer support

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General description

Sunshield for the FLIR Exx series, to increase visibility of the LCD.

Physical data

Size (L x W x H)	40 x 74 x 70 mm (1.6 x 2.9 x 2.8 in.)
Material	Plastic
Color	Black

Shipping information

List of contents	• Sun shield
Packaging, weight	0.030 kg
Packaging, size	170 x 75 x 60 mm
EAN-13	7332558004586 4743254000797 (Estonia plant)
UPC-12	845188004538
Country of origin	Estonia

Compatible with the following products:

- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

P/N: T911093

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Website

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Customer support

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General description	
Tool belt for FLIR camera pouches.	

Physical data	
Weight	0.117 kg (0.26 lb.)
Length	1.44 m (4.7 ft.)
Color	Black

Shipping information	
Packaging, type	Cardboard box
List of contents	• Tool belt
Packaging, weight	0.318 kg (0.7 lb.)
Packaging, size	243 × 165 × 82 mm (9.6 × 6.5 × 3.2 in.)
EAN-13	7332558003442 4743254000384 (Estonia plant)
UPC-12	845188003210
Country of origin	Estonia

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)

P/N: T911093

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Website

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Customer support

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- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 63901-0101; FLIR E4
- 63906-0604; FLIR E4 (incl. Wi-Fi)
- 63905-0501; FLIR E5
- 63909-0904; FLIR E5 (incl. Wi-Fi)
- 63902-0202; FLIR E6
- 63907-0704; FLIR E6 (incl. Wi-Fi)
- 63903-0303; FLIR E8
- 63908-0805; FLIR E8 (incl. Wi-Fi)

P/N: T198341ACC

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>**General description**

Rugged, watertight plastic shipping case for FLIR Exx series. Holds all items neatly and securely. The case can be locked with padlocks and features a membrane to prevent pressure build-up in airplane cargo holds.

Physical data

Weight	2.65 kg (5.84 lb.)
Size (L x W x H)	484 x 345 x 178 mm (19.1 x 13.6 x 7.0 in.)
Material	PP with Rubber Blend (Polypropylene)
Color	Black

Shipping information

List of contents	• Transport case Exx
Packaging, weight	3.05 kg (6.72 lb.)
Packaging, size	505 x 365 x 185 mm (19.9 x 14.4 x 7.3 in.)
EAN-13	4743254001541
UPC-12	845188008819
Country of origin	Estonia

Compatible with the following products:

P/N: T198486

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
Tripod adapter, necessary accessory to be able to mount the camera on a tripod.	

Physical data	
Size (L x W x H)	62x 50 x 23 mm (2.5 x 2.0 x 0.9 in.)
Color	Black

Shipping information	
List of contents	• Tripod Adapter
Packaging, weight	0.040 kg
Packaging, size	170 x 75 x 60 mm
EAN-13	7332558004593 4743254000780 (Estonia plant)
UPC-12	845188004569
Country of origin	Estonia

Compatible with the following products:

- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

P/N: 1910423

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
This cable is used to connect the infrared camera with a computer, using the USB protocol.	

Physical data	
Weight	60 g (2.1 oz.)
Cable length	1.8 m (5.9 ft.)
Connector	Standard USB-A to USB Mini-B

Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558003428
UPC-12	845188002176
Country of origin	Sweden

Compatible with the following products:

- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case



USB cable Std A <-> Mini-B

P/N: 1910423

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 74902-0101; FLIR GFx320 14.5° fixed lens
- 74902-0102; FLIR GFx320 24° fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72203-0411; FLIR K33
- 72203-0511; FLIR K53
- 72201-0106; FLIR K45
- 72201-0206; FLIR K55
- 72202-0303; FLIR K65

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

This cable is used to transfer video signals from the infrared camera to an external monitor, or to a computer featuring an internal video card.

Physical data

Cable length	1.9 m (6.2 ft.)
Connector	3.5 mm (four pin) plug to RCA (red, white, yellow)

Shipping information

Packaging, type	Cardboard box
Packaging, weight	168 g (5.9 oz.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558006269
UPC-12	845188006617
Country of origin	Sweden

Compatible with the following products:

- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

Accessories for FLIR Exx (2017) series

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Website

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Customer support

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General description	
Stand-alone 2-bay battery charger. Requires the Power supply for battery charger, T911633ACC.	
Power system	
Power	12 VDC input
Physical data	
Weight	327 g (0.721 lb.)
Size (L x W x H)	143 x 110 x 60 mm (5.6 x 4.3 x 2.4 in.)
Cable length	
Shipping information	
Packaging, type	Cardboard box
List of contents	• Stand-alone 2-bay battery charger
Packaging, weight	
Packaging, size	151 x 125 x 125 mm (5.9 x 4.9 x 4.9 in.)
EAN-13	4743254003071
UPC-12	845188014476
Country of origin	Estonia

Compatible with the following products:

- 84502-0201; FLIR E53 24°
- 78501-0101; FLIR E75 14°
- 78502-0101; FLIR E75 24°
- 78504-0101; FLIR E75 24° + 14°
- 78506-0101; FLIR E75 24° + 14° & 42°
- 78505-0101; FLIR E75 24° + 42°
- 78503-0101; FLIR E75 42°
- 78501-0201; FLIR E85 14°
- 78502-0201; FLIR E85 24°
- 78504-0201; FLIR E85 24° + 14°
- 78506-0201; FLIR E85 24° + 14° & 42°
- 78505-0201; FLIR E85 24° + 42°
- 78503-0201; FLIR E85 42°
- 78501-0301; FLIR E95 14°
- 78502-0301; FLIR E95 24°
- 78504-0301; FLIR E95 24° + 14°
- 78506-0301; FLIR E95 24° + 14° & 42°
- 78505-0301; FLIR E95 24° + 42°
- 78503-0301; FLIR E95 42°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

This cable is used to connect the infrared camera with a computer, using the USB protocol. The cable can also be used with the Car adapter, T911709ACC.

Physical data

Weight	34 g (1.2 oz.)
Cable length	0.9 m (3 ft.)
Connector	USB Type-C to USB Type-C (USB 2.0 standard)

Shipping information

Packaging, type	Cardboard box
List of contents	• USB Type-C to USB Type-C cable
Packaging, weight	
Packaging, size	155 × 59 × 69 mm (6.1 × 2.3 × 2.7 in.)
EAN-13	4743254003156
UPC-12	845188014551
Country of origin	Estonia

Compatible with the following products:

- 84502-0201; FLIR E53 24°
- 78501-0101; FLIR E75 14°
- 78502-0101; FLIR E75 24°
- 78504-0101; FLIR E75 24° + 14°
- 78506-0101; FLIR E75 24° + 14° & 42°
- 78505-0101; FLIR E75 24° + 42°
- 78503-0101; FLIR E75 42°
- 78507-0101; FLIR E75 42° + 14°
- 78501-0201; FLIR E85 14°
- 78502-0201; FLIR E85 24°
- 78504-0201; FLIR E85 24° + 14°
- 78506-0201; FLIR E85 24° + 14° & 42°
- 78505-0201; FLIR E85 24° + 42°
- 78503-0201; FLIR E85 42°
- 78507-0201; FLIR E85 42° + 14°
- 78501-0301; FLIR E95 14°
- 78502-0301; FLIR E95 24°
- 78504-0301; FLIR E95 24° + 14°
- 78506-0301; FLIR E95 24° + 14° & 42°
- 78505-0301; FLIR E95 24° + 42°
- 78503-0301; FLIR E95 42°
- 79301-0101; FLIR T530 14°
- 79302-0101; FLIR T530 24°
- 79304-0101; FLIR T530 24° + 14°
- 79306-0101; FLIR T530 24° + 14° & 42°
- 79305-0101; FLIR T530 24° + 42°
- 79303-0101; FLIR T530 42°
- 79307-0101; FLIR T530 42° + 14°
- 79301-0201; FLIR T540 14°
- 79302-0201; FLIR T540 24°
- 79304-0201; FLIR T540 24° + 14°
- 79306-0201; FLIR T540 24° + 14° & 42°
- 79305-0201; FLIR T540 24° + 42°
- 79303-0201; FLIR T540 42°



USB Type-C to USB Type-C cable (USB 2.0 standard)

P/N: T911705ACC

- 79307-0201; FLIR T540 42° + 14°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

This adapter is used to connect the infrared camera with a HDMI monitor. Requires a standard HDMI cable (not supplied by FLIR).

Physical data

Weight	25 g (0.88 oz.)
Connector	USB Type-C male to HDMI female, standard specification UH311

Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> USB Type-C to HDMI adapter
Packaging, weight	
Packaging, size	155 × 59 × 69 mm (6.1 × 2.3 × 2.7 in.)
EAN-13	4743254003149
UPC-12	845188014544
Country of origin	Estonia

Compatible with the following products:

- 84502-0201; FLIR E53 24°
- 78501-0101; FLIR E75 14°
- 78502-0101; FLIR E75 24°
- 78504-0101; FLIR E75 24° + 14°
- 78506-0101; FLIR E75 24° + 14° & 42°
- 78505-0101; FLIR E75 24° + 42°
- 78503-0101; FLIR E75 42°
- 78507-0101; FLIR E75 42° + 14°
- 78501-0201; FLIR E85 14°
- 78502-0201; FLIR E85 24°
- 78504-0201; FLIR E85 24° + 14°
- 78506-0201; FLIR E85 24° + 14° & 42°
- 78505-0201; FLIR E85 24° + 42°
- 78503-0201; FLIR E85 42°
- 78507-0201; FLIR E85 42° + 14°
- 78501-0301; FLIR E95 14°
- 78502-0301; FLIR E95 24°
- 78504-0301; FLIR E95 24° + 14°
- 78506-0301; FLIR E95 24° + 14° & 42°
- 78505-0301; FLIR E95 24° + 42°
- 78503-0301; FLIR E95 42°
- 79301-0101; FLIR T530 14°
- 79302-0101; FLIR T530 24°
- 79304-0101; FLIR T530 24° + 14°
- 79306-0101; FLIR T530 24° + 14° & 42°
- 79305-0101; FLIR T530 24° + 42°
- 79303-0101; FLIR T530 42°
- 79307-0101; FLIR T530 42° + 14°
- 79301-0201; FLIR T540 14°
- 79302-0201; FLIR T540 24°
- 79304-0201; FLIR T540 24° + 14°
- 79306-0201; FLIR T540 24° + 14° & 42°
- 79305-0201; FLIR T540 24° + 42°
- 79303-0201; FLIR T540 42°



USB Type-C to HDMI adapter, standard specification UH311

P/N: T911632ACC

- 79307-0201; FLIR T540 42° + 14°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

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42932

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Website

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General description

This cable is used to connect the infrared camera with a computer, using the USB protocol.

Physical data

Weight	28 g (0.99 oz.)
Cable length	1.0 m (3.3 ft.)
Connector	USB 2.0 A to USB Type-C

Shipping information

Packaging, type	Cardboard box
List of contents	• USB 2.0 A to USB Type-C cable
Packaging, weight	
Packaging, size	155 × 59 × 69 mm (6.1 × 2.3 × 2.7 in.)
EAN-13	4743254003132
UPC-12	845188014537
Country of origin	Estonia

Compatible with the following products:

- 84502-0201; FLIR E53 24°
- 78501-0101; FLIR E75 14°
- 78502-0101; FLIR E75 24°
- 78504-0101; FLIR E75 24° + 14°
- 78506-0101; FLIR E75 24° + 14° & 42°
- 78505-0101; FLIR E75 24° + 42°
- 78503-0101; FLIR E75 42°
- 78507-0101; FLIR E75 42° + 14°
- 78501-0201; FLIR E85 14°
- 78502-0201; FLIR E85 24°
- 78504-0201; FLIR E85 24° + 14°
- 78506-0201; FLIR E85 24° + 14° & 42°
- 78505-0201; FLIR E85 24° + 42°
- 78503-0201; FLIR E85 42°
- 78507-0201; FLIR E85 42° + 14°
- 78501-0301; FLIR E95 14°
- 78502-0301; FLIR E95 24°
- 78504-0301; FLIR E95 24° + 14°
- 78506-0301; FLIR E95 24° + 14° & 42°
- 78505-0301; FLIR E95 24° + 42°
- 78503-0301; FLIR E95 42°
- 79301-0101; FLIR T530 14°
- 79302-0101; FLIR T530 24°
- 79304-0101; FLIR T530 24° + 14°
- 79306-0101; FLIR T530 24° + 14° & 42°
- 79305-0101; FLIR T530 24° + 42°
- 79303-0101; FLIR T530 42°
- 79307-0101; FLIR T530 42° + 14°
- 79301-0201; FLIR T540 14°
- 79302-0201; FLIR T540 24°
- 79304-0201; FLIR T540 24° + 14°
- 79306-0201; FLIR T540 24° + 14° & 42°
- 79305-0201; FLIR T540 24° + 42°
- 79303-0201; FLIR T540 42°
- 79307-0201; FLIR T540 42° + 14°

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Website

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Customer support

<http://support.flir.com>



General description	
Power supply, including multiple plugs, to charge the battery when it is inside the camera.	
Power system	
AC operation	100–240 VAC, 50/60 Hz, 5 VDC out
Power	3 A at 5 VDC
Physical data	
Size (L × W × H)	58 × 38 × 31 mm (2.3 × 1.5 × 1.2 in.)
Cable length	1.0 m (3.3 ft.)
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Power supply including cable • EU plug • UK plug • US plug • AU plug • Korea plug
Packaging, weight	180 g (0.40 lb.)
Packaging, size	110 × 70 × 63 mm (4.3 × 2.8 × 2.5 in.)
EAN-13	4743254003163
UPC-12	845188014568
Country of origin	Estonia

Compatible with the following products:

- 84502-0201; FLIR E53 24°
- 78501-0101; FLIR E75 14°
- 78502-0101; FLIR E75 24°
- 78504-0101; FLIR E75 24° + 14°
- 78506-0101; FLIR E75 24° + 14° & 42°
- 78505-0101; FLIR E75 24° + 42°
- 78503-0101; FLIR E75 42°
- 78507-0101; FLIR E75 42° + 14°
- 78501-0201; FLIR E85 14°
- 78502-0201; FLIR E85 24°
- 78504-0201; FLIR E85 24° + 14°
- 78506-0201; FLIR E85 24° + 14° & 42°
- 78505-0201; FLIR E85 24° + 42°
- 78503-0201; FLIR E85 42°
- 78507-0201; FLIR E85 42° + 14°
- 78501-0301; FLIR E95 14°
- 78502-0301; FLIR E95 24°
- 78504-0301; FLIR E95 24° + 14°
- 78506-0301; FLIR E95 24° + 14° & 42°
- 78505-0301; FLIR E95 24° + 42°
- 78503-0301; FLIR E95 42°
- 79301-0101; FLIR T530 14°
- 79302-0101; FLIR T530 24°



Power supply, 15 W/3 A

P/N: T911630ACC

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Website

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Customer support

<http://support.flir.com>

- 79304-0101; FLIR T530 24° + 14°
- 79306-0101; FLIR T530 24° + 14° & 42°
- 79305-0101; FLIR T530 24° + 42°
- 79303-0101; FLIR T530 42°
- 79307-0101; FLIR T530 42° + 14°
- 79301-0201; FLIR T540 14°
- 79302-0201; FLIR T540 24°
- 79304-0201; FLIR T540 24° + 14°
- 79306-0201; FLIR T540 24° + 14° & 42°
- 79305-0201; FLIR T540 24° + 42°
- 79303-0201; FLIR T540 42°
- 79307-0201; FLIR T540 42° + 14°

P/N: T199346ACC

Revision

46349

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2017-11-15 15:31 UTC+1

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Website

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Customer support

<http://support.flir.com>



General description

Rugged, watertight plastic shipping case for FLIR Exx series. Holds all items neatly and securely.

Physical data

Weight	2.6 kg (5.5 lb.)
Size (L x W x H)	484 x 345 x 178 mm (19.1 x 13.6 x 7.0 in.)
Material	PP with Rubber Blend (Polypropylene)
Color	Black

Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> Hard transport case
Packaging, weight	
Packaging, size	484 x 345 x 178 mm (19.1 x 13.6 x 7.0 in.)
EAN-13	4743254003187
UPC-12	845188014582
Country of origin	Estonia

Compatible with the following products:



Power supply for battery charger

P/N: T911633ACC

Revision

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

General description	
Power supply, with multi plugs.	

Power system	
AC operation	100–240 VAC, 50/60 Hz, 12 VDC out
Power	3000 mA at 12 VDC

Physical data	
Size (L x W x H)	90 x 54 x 38 mm (3.5 x 2.1 x 1.5 in.)
Cable length	1.2 m (3.9 ft.)

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Power supply including cable• EU plug• UK plug• US plug• AU plug
Packaging, weight	280 g (0.62 lb.)
Packaging, size	150 x 70 x 70 mm (5.9 x 2.8 x 2.8 in.)
EAN-13	4743254003194
UPC-12	845188014599
Country of origin	Estonia

Compatible with the following products:

- 84502-0201; FLIR E53 24°
- 78501-0101; FLIR E75 14°
- 78502-0101; FLIR E75 24°
- 78504-0101; FLIR E75 24° + 14°
- 78506-0101; FLIR E75 24° + 14° & 42°
- 78505-0101; FLIR E75 24° + 42°
- 78503-0101; FLIR E75 42°
- 78507-0101; FLIR E75 42° + 14°
- 78501-0201; FLIR E85 14°
- 78502-0201; FLIR E85 24°
- 78504-0201; FLIR E85 24° + 14°
- 78506-0201; FLIR E85 24° + 14° & 42°
- 78505-0201; FLIR E85 24° + 42°
- 78503-0201; FLIR E85 42°
- 78507-0201; FLIR E85 42° + 14°
- 78501-0301; FLIR E95 14°
- 78502-0301; FLIR E95 24°
- 78504-0301; FLIR E95 24° + 14°
- 78506-0301; FLIR E95 24° + 14° & 42°
- 78505-0301; FLIR E95 24° + 42°
- 78503-0301; FLIR E95 42°
- 79301-0101; FLIR T530 14°
- 79302-0101; FLIR T530 24°
- 79304-0101; FLIR T530 24° + 14°
- 79306-0101; FLIR T530 24° + 14° & 42°
- 79305-0101; FLIR T530 24° + 42°
- 79303-0101; FLIR T530 42°
- 79307-0101; FLIR T530 42° + 14°
- 79301-0201; FLIR T540 14°
- 79302-0201; FLIR T540 24°
- 79304-0201; FLIR T540 24° + 14°
- 79306-0201; FLIR T540 24° + 14° & 42°
- 79305-0201; FLIR T540 24° + 42°
- 79303-0201; FLIR T540 42°
- 79307-0201; FLIR T540 42° + 14°

P/N: T199330ACC

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
High capacity battery for the IR camera.	
Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	3.7 V
Battery capacity	5.7Ah, at +20°C (+68°F)
Charging temperature	0°C to +45°C (+32°F to +113°F)
Environmental data	
Battery storage temperature range	-40°C to +85°C (-40°F to +185°F)
Physical data	
Weight	146 g (0.322 lb.)
Size (L x W x H)	145 x 25 x 23 mm (5.7 x 0.98 x 0.91 in.)
Shipping information	
Packaging, type	Cardboard box
List of contents	• Battery
Packaging, weight	
Packaging, size	157 x 130 x 65 mm (6.2 x 5.1 x 2.6 in.)
EAN-13	4743254003088
UPC-12	845188014483
Country of origin	Estonia

Compatible with the following products:

- 84502-0201; FLIR E53 24°
- 78501-0101; FLIR E75 14°
- 78502-0101; FLIR E75 24°
- 78504-0101; FLIR E75 24° + 14°
- 78506-0101; FLIR E75 24° + 14° & 42°
- 78505-0101; FLIR E75 24° + 42°
- 78503-0101; FLIR E75 42°
- 78501-0201; FLIR E85 14°
- 78502-0201; FLIR E85 24°
- 78504-0201; FLIR E85 24° + 14°
- 78506-0201; FLIR E85 24° + 14° & 42°
- 78505-0201; FLIR E85 24° + 42°
- 78503-0201; FLIR E85 42°
- 78501-0301; FLIR E95 14°
- 78502-0301; FLIR E95 24°
- 78504-0301; FLIR E95 24° + 14°
- 78506-0301; FLIR E95 24° + 14° & 42°
- 78505-0301; FLIR E95 24° + 42°
- 78503-0301; FLIR E95 42°

P/N: T199557ACC

Revision

47536

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2018-02-08 13:55 UTC+1

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Website

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Customer support

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General description	
Various accessories for FLIR Exx (2017) series.	
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Accessory box II: <ul style="list-style-type: none"> • Hand strap • Lanyard strap, camera • Wrist strap • Lens cap strap • Front protection • Carabiner hook • Accessory box III: <ul style="list-style-type: none"> • Hand strap bracket, right • Hand strap bracket, left • Torx T10 wrench • Front protection fastener • Screws
Packaging, weight	0.090 kg (0.20 lb.)
Packaging, size	180 × 115 × 30 mm (7.1 × 4.5 × 1.2 in.)
EAN-13	4743254003170
UPC-12	845188014575
Country of origin	Estonia

Compatible with the following products:

- 84502-0201; FLIR E53 24°
- 78501-0101; FLIR E75 14°
- 78502-0101; FLIR E75 24°
- 78504-0101; FLIR E75 24° + 14°
- 78506-0101; FLIR E75 24° + 14° & 42°
- 78505-0101; FLIR E75 24° + 42°
- 78503-0101; FLIR E75 42°
- 78501-0201; FLIR E85 14°
- 78502-0201; FLIR E85 24°
- 78504-0201; FLIR E85 24° + 14°
- 78506-0201; FLIR E85 24° + 14° & 42°
- 78505-0201; FLIR E85 24° + 42°
- 78503-0201; FLIR E85 42°
- 78501-0301; FLIR E95 14°
- 78502-0301; FLIR E95 24°
- 78504-0301; FLIR E95 24° + 14°
- 78506-0301; FLIR E95 24° + 14° & 42°
- 78505-0301; FLIR E95 24° + 42°
- 78503-0301; FLIR E95 42°

P/N: T911706ACC

Revision

46355

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Website

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Customer support

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General description	
This cable is used to power the infrared camera from the cigarette lighter socket in a car. Requires a USB Type-C to USB Type-C cable (USB 2.0 standard), T911631ACC.	

Physical data	
Weight	18 g (0.63 oz.)
Connector	USB Type-C

Shipping information	
Packaging, type	Cardboard box
List of contents	• Car adapter
Packaging, weight	
Packaging, size	
EAN-13	4743254003095
UPC-12	845188014490
Country of origin	Estonia

Compatible with the following products:

- 84502-0201; FLIR E53 24°
- 78501-0101; FLIR E75 14°
- 78502-0101; FLIR E75 24°
- 78504-0101; FLIR E75 24° + 14°
- 78506-0101; FLIR E75 24° + 14° & 42°
- 78505-0101; FLIR E75 24° + 42°
- 78503-0101; FLIR E75 42°
- 78501-0201; FLIR E85 14°
- 78502-0201; FLIR E85 24°
- 78504-0201; FLIR E85 24° + 14°
- 78506-0201; FLIR E85 24° + 14° & 42°
- 78505-0201; FLIR E85 24° + 42°
- 78503-0201; FLIR E85 42°
- 78501-0301; FLIR E95 14°
- 78502-0301; FLIR E95 24°
- 78504-0301; FLIR E95 24° + 14°
- 78506-0301; FLIR E95 24° + 14° & 42°
- 78505-0301; FLIR E95 24° + 42°
- 78503-0301; FLIR E95 42°
- 79301-0101; FLIR T530 14°
- 79302-0101; FLIR T530 24°
- 79304-0101; FLIR T530 24° + 14°
- 79306-0101; FLIR T530 24° + 14° & 42°
- 79305-0101; FLIR T530 24° + 42°
- 79303-0101; FLIR T530 42°
- 79307-0101; FLIR T530 42° + 14°
- 79301-0201; FLIR T540 14°
- 79302-0201; FLIR T540 24°
- 79304-0201; FLIR T540 24° + 14°
- 79306-0201; FLIR T540 24° + 14° & 42°
- 79305-0201; FLIR T540 24° + 42°
- 79303-0201; FLIR T540 42°
- 79307-0201; FLIR T540 42° + 14°

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Accessories for FLIR G3xx a series

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P/N: T911288ACC

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Website

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Customer support

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General description	
Pole mount adapter for wall mount kit (P/N: T911263ACC)	

Power system	

Physical data	
Weight	3.33 kg (7.33 lb.), including screws
Size (L x W x H)	195 x 180 x 110 mm (7.7 x 7.1 x 4.3 in.) (size at minimum clearance between brackets)

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> Pole mount adapter for wall mount kit
Packaging, weight	3.6 kg (7.9 lb.)
Packaging, size	303 x 206 x 128 mm (11.9 x 8.1 x 5.0 in.)
EAN-13	7332558010259
UPC-12	845188010843
Country of origin	Sweden

Compatible with the following products:

- 71001-1103; FLIR A310 ex 25°
- 71001-1104; FLIR A310 ex 45°
- 65502-0101; FLIR G300 pt 14.5° NTSC
- 65501-0101; FLIR G300 pt 14.5° PAL
- 65502-0102; FLIR G300 pt 24° NTSC
- 65501-0102; FLIR G300 pt 24° PAL

P/N: T911263ACC

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Website

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Customer support

<http://support.flir.com>



General description

Wall mount kit for FLIR A310ex.

Power system

Physical data

Weight	2.57 kg (5.66 lb.)
Size (L × W × H)	Plate: 170 × 140 mm (6.7 × 5.5 in.); length: 390 mm (15.3 in.)

Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> Pole mount adapter for wall mount kit
Packaging, weight	
Packaging, size	
EAN-13	7332558008775
UPC-12	845188009298
Country of origin	Sweden

Compatible with the following products:

- 71001-1103; FLIR A310 ex 25°
- 71001-1104; FLIR A310 ex 45°
- 65502-0101; FLIR G300 pt 14.5° NTSC
- 65501-0101; FLIR G300 pt 14.5° PAL
- 65502-0102; FLIR G300 pt 24° NTSC
- 65501-0102; FLIR G300 pt 24° PAL

Accessories for FLIR G3xx pt series

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P/N: T199233

Revision

32685

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2016-01-27 10:00 UTC+1

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General description	
The FLIR Atlas SDK for .NET is a software development kit that enables developers to create applications. Supported by help files and sample code, developers can add functionality or collaborate with other FLIR products to get the result they want in their application.	
Key features:	
<ul style="list-style-type: none"> • Supports communication and streaming using FireWire, Gigabit, RTSP, and USB interfaces. • Gives the user full control of the camera. • Supports recording of images using FireWire, Gigabit, RTSP, and USB interfaces. • Converts 16-bit signal pixels into temperature data, for maximum user flexibility. • Allows 16-bit temperature linear, histogram, and signal outputs. 	
Release notes	
Version	3.1
Shipping information	
Packaging, type	Cardboard box
List of contents	Download card with printed license key
Packaging, weight	0.056 kg (0.123 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558011126
UPC-12	845188012014
Country of origin	Sweden
System requirements	
Operating system	<ul style="list-style-type: none"> • Windows 7 (32- and 64-bit) • Windows 8 (32- and 64-bit) • Windows 10 (32- and 64-bit)

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case



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- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 73309-0102; FLIR A35 f=9 mm with SC kit
- 83225-0101; FLIR A35 FOV 13 (60 Hz, ver. 2017)
- 83213-0102; FLIR A35 FOV 25 (60 Hz, ver. 2017)
- 83207-0102; FLIR A35 FOV 45 (60 Hz, ver. 2017)
- 83250-0101; FLIR A35 FOV 6.5 (60 Hz, ver. 2017)
- 83209-0102; FLIR A35 FOV 69 (30 Hz, ver. 2017)
- 73413-0102; FLIR A65 f=13 mm with SC kit (30 Hz)
- 73513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 75050-0101; FLIR A65 FOV 12.4 (30 Hz, ver. 2016)
- 75025-0101; FLIR A65 FOV 25 (30 Hz, ver. 2016)
- 75013-0101; FLIR A65 FOV 45 (30 Hz, ver. 2016)
- 75010-0101; FLIR A65 FOV 6.2 (30 Hz, ver. 2016)
- 75007-0101; FLIR A65 FOV 90 (30 Hz, ver. 2016)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°

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- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 65702-0102; FLIR GF343 24° Fixed lens
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 71502-0101; FLIR G300 a 14.5° fixed lens
- 71502-0102; FLIR G300 a 24° fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 63901-0101; FLIR E4
- 63906-0604; FLIR E4 (incl. Wi-Fi)
- 63905-0501; FLIR E5
- 63909-0904; FLIR E5 (incl. Wi-Fi)
- 63902-0202; FLIR E6
- 63907-0704; FLIR E6 (incl. Wi-Fi)
- 63903-0303; FLIR E8
- 63908-0805; FLIR E8 (incl. Wi-Fi)
- 72001-0101; FLIR C2
- 72002-0202; FLIR C2 Educational Kit
- 72003-0303; FLIR C3 (incl. Wi-Fi)
- 72003-0404; FLIR C3 (incl. Wi-Fi) Educational Kit

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General description	
The FLIR Atlas SDK for MATLAB is a software development kit that enables developers to create applications. Supported by help files and sample code, developers can add functionality or collaborate with other FLIR products to get the result they want in their application.	
Key features:	
<ul style="list-style-type: none"> • Supports communication and streaming using FireWire, Gigabit, RTSP, and USB interfaces. • Gives the user full control of the camera. • Supports recording of images using FireWire, Gigabit, RTSP, and USB interfaces. • Converts 16-bit signal pixels into temperature data, for maximum user flexibility. • Allows 16-bit temperature linear, histogram, and signal outputs. 	
Release notes	
Version	3.1
Shipping information	
Packaging, type	Cardboard box
List of contents	Download card with printed license key
Packaging, weight	0.056 kg (0.123 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558011133
UPC-12	845188012021
Country of origin	Sweden
System requirements	
Operating system	MATLAB 2015 (32- and 64-bit) and one of the following operating systems: <ul style="list-style-type: none"> • Windows 7 (32- and 64-bit) • Windows 8 (32- and 64-bit) • Windows 10 (32- and 64-bit)

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)

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- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 73309-0102; FLIR A35 f=9 mm with SC kit
- 83225-0101; FLIR A35 FOV 13 (60 Hz, ver. 2017)
- 83213-0102; FLIR A35 FOV 25 (60 Hz, ver. 2017)
- 83207-0102; FLIR A35 FOV 45 (60 Hz, ver. 2017)
- 83250-0101; FLIR A35 FOV 6.5 (60 Hz, ver. 2017)
- 83209-0102; FLIR A35 FOV 69 (30 Hz, ver. 2017)
- 73413-0102; FLIR A65 f=13 mm with SC kit (30 Hz)
- 73513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 75050-0101; FLIR A65 FOV 12.4 (30 Hz, ver. 2016)
- 75025-0101; FLIR A65 FOV 25 (30 Hz, ver. 2016)
- 75013-0101; FLIR A65 FOV 45 (30 Hz, ver. 2016)
- 75010-0101; FLIR A65 FOV 6.2 (30 Hz, ver. 2016)
- 75007-0101; FLIR A65 FOV 90 (30 Hz, ver. 2016)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°

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- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 65702-0102; FLIR GF343 24° Fixed lens
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 71502-0101; FLIR G300 a 14.5° fixed lens
- 71502-0102; FLIR G300 a 24° fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 63901-0101; FLIR E4
- 63906-0604; FLIR E4 (incl. Wi-Fi)
- 63905-0501; FLIR E5
- 63909-0904; FLIR E5 (incl. Wi-Fi)
- 63902-0202; FLIR E6
- 63907-0704; FLIR E6 (incl. Wi-Fi)
- 63903-0303; FLIR E8
- 63908-0805; FLIR E8 (incl. Wi-Fi)
- 72001-0101; FLIR C2
- 72002-0202; FLIR C2 Educational Kit
- 72003-0303; FLIR C3 (incl. Wi-Fi)
- 72003-0404; FLIR C3 (incl. Wi-Fi) Educational Kit

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
Pole mount adapter for wall mount kit (P/N: T911263ACC)	
Power system	
Physical data	
Weight	3.33 kg (7.33 lb.), including screws
Size (L x W x H)	195 x 180 x 110 mm (7.7 x 7.1 x 4.3 in.) (size at minimum clearance between brackets)
Shipping information	
Packaging, type	Cardboard box
List of contents	• Pole mount adapter for wall mount kit
Packaging, weight	3.6 kg (7.9 lb.)
Packaging, size	303 x 206 x 128 mm (11.9 x 8.1 x 5.0 in.)
EAN-13	7332558010259
UPC-12	845188010843
Country of origin	Sweden

Compatible with the following products:

- 71001-1103; FLIR A310 ex 25°
- 71001-1104; FLIR A310 ex 45°
- 65502-0101; FLIR G300 pt 14.5° NTSC
- 65501-0101; FLIR G300 pt 14.5° PAL
- 65502-0102; FLIR G300 pt 24° NTSC
- 65501-0102; FLIR G300 pt 24° PAL

P/N: T911263ACC

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General description

Wall mount kit for FLIR A310ex.

Power system

Physical data

Weight	2.57 kg (5.66 lb.)
Size (L × W × H)	Plate: 170 × 140 mm (6.7 × 5.5 in.); length: 390 mm (15.3 in.)

Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> Pole mount adapter for wall mount kit
Packaging, weight	
Packaging, size	
EAN-13	7332558008775
UPC-12	845188009298
Country of origin	Sweden

Compatible with the following products:

- 71001-1103; FLIR A310 ex 25°
- 71001-1104; FLIR A310 ex 45°
- 65502-0101; FLIR G300 pt 14.5° NTSC
- 65501-0101; FLIR G300 pt 14.5° PAL
- 65502-0102; FLIR G300 pt 24° NTSC
- 65501-0102; FLIR G300 pt 24° PAL

Accessories for FLIR GF3xx series

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P/N: T197692

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General description	
Stand-alone 2-bay battery charger, including power supply with multi plugs.	
Note: This product replaces T197563 and 1196210EU/UK/US	

Power system	
AC operation	100–240 VAC, 50/60 Hz, 12 VDC out
Power	3000 mA at 12 VDC

Physical data	
Battery charger size (L x W x H)	158 x 122 x 25 mm (6.2 x 4.8 x 1.0 in.)
Cable length	1.98 m (6.5 ft.)

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> Stand-alone 2-bay battery charger Power supply including cable EU plug UK plug US plug AU plug
Packaging, weight	0.60 kg (1.3 lb.)
Packaging, size	243 x 165 x 82 mm (9.6 x 6.5 x 3.2 in.)
EAN-13	7332558003787
UPC-12	845188004002
Country of origin	Sweden

Compatible with the following products:

- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°



Battery charger, incl. power supply with multi plugs

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Customer support

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- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 74902-0101; FLIR GFx320 14.5° fixed lens
- 74902-0102; FLIR GFx320 24° fixed lens

P/N: T199367ACC

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General description	
High capacity battery for the IR camera.	
Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	7.2 V
Battery capacity	4.4 Ah at +20°C (+68°F)
Battery note	Approximate lithium content: 3.0 g
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 95% capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
Environmental data	
Battery storage temperature range	-40°C to +70°C (-40°F to +158°F)
Physical data	
Battery weight	0.24 kg (0.52 lb.)
Size (L × W × H)	141 × 47 × 28 mm (5.5 × 1.8 × 1.1 in.)
Shipping information	
Packaging, type	Cardboard box
Packaging, weight	0.324 kg (0.7 lb.)
Packaging, size	183 × 136 × 63 mm (7.2 × 5.4 × 2.5 in.)
EAN-13	7332558011805
UPC-12	845188012892
Country of origin	Sweden

Compatible with the following products:

- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens



Battery Li-ion 7.2 V, 4.4 Ah, 32 Wh

P/N: T199367ACC

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Website

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Customer support

<http://support.flir.com>

- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 65702-0102; FLIR GF343 24° Fixed lens
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

P/N: T199834

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<p>General description</p> <p>General Maintenance package offers a complete 14 points inspection and calibration service (for one lens combination). Shipping cost not included.</p> <p>14-point inspection program:</p> <ul style="list-style-type: none"> • Perform a complete operational check. • Fusion calibration and laser alignment, when applicable. • Verify all internal cable and PCB connections. • Clean the viewfinder and check the optics. • Upgrade the internal camera software to the latest revisions. • Perform minor repairs. • Verify and/or re-equalize as needed each temperature range for image uniformity. • Verify standard lens calibration (optional: other or specially engineered lenses). • Verify ambient temperature compensation as needed. • Recalibration to ensure factory specifications are met. • Calibrate temperature ranges up to +1500°C, when applicable. • Perform a quality-approved acceptance test procedure. • Provide a calibration label with the next due date. • Provide a calibration certificate (optional: extended calibration certificate with measured values).
<p>Download</p> <p>Contact info can be found at:</p> <p>http://support.flir.com</p>

Compatible with the following products:

- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

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General description	
This cable is used to power the infrared camera from the cigarette lighter socket in a car.	
Note: This is the same product as p/n 1196497.	

Physical data	
Cable length	1.2 m (3.9 ft.)

Shipping information	
Packaging, type	Cardboard box
Packaging, weight	0.125 kg (0.28 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558004340 4743254001435 (Estonia plant)
UPC-12	845188004361
Country of origin	Sweden

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)



Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.

P/N: T198509

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Website

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Customer support

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- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 74902-0101; FLIR GFx320 14.5° fixed lens
- 74902-0102; FLIR GFx320 24° fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72203-0411; FLIR K33



Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.

P/N: T198509

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Website

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Customer support

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- 72203-0511; FLIR K53
- 72201-0106; FLIR K45
- 72201-0206; FLIR K55
- 72202-0303; FLIR K65

P/N: T199233

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General description

The FLIR Atlas SDK for .NET is a software development kit that enables developers to create applications. Supported by help files and sample code, developers can add functionality or collaborate with other FLIR products to get the result they want in their application.

Key features:

- Supports communication and streaming using FireWire, Gigabit, RTSP, and USB interfaces.
- Gives the user full control of the camera.
- Supports recording of images using FireWire, Gigabit, RTSP, and USB interfaces.
- Converts 16-bit signal pixels into temperature data, for maximum user flexibility.
- Allows 16-bit temperature linear, histogram, and signal outputs.

Release notes

Version	3.1
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Shipping information

Packaging, type	Cardboard box
List of contents	Download card with printed license key
Packaging, weight	0.056 kg (0.123 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558011126
UPC-12	845188012014
Country of origin	Sweden

System requirements

Operating system	<ul style="list-style-type: none"> • Windows 7 (32- and 64-bit) • Windows 8 (32- and 64-bit) • Windows 10 (32- and 64-bit)
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Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case



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Website

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Customer support

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- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 73309-0102; FLIR A35 f=9 mm with SC kit
- 83225-0101; FLIR A35 FOV 13 (60 Hz, ver. 2017)
- 83213-0102; FLIR A35 FOV 25 (60 Hz, ver. 2017)
- 83207-0102; FLIR A35 FOV 45 (60 Hz, ver. 2017)
- 83250-0101; FLIR A35 FOV 6.5 (60 Hz, ver. 2017)
- 83209-0102; FLIR A35 FOV 69 (30 Hz, ver. 2017)
- 73413-0102; FLIR A65 f=13 mm with SC kit (30 Hz)
- 73513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 75050-0101; FLIR A65 FOV 12.4 (30 Hz, ver. 2016)
- 75025-0101; FLIR A65 FOV 25 (30 Hz, ver. 2016)
- 75013-0101; FLIR A65 FOV 45 (30 Hz, ver. 2016)
- 75010-0101; FLIR A65 FOV 6.2 (30 Hz, ver. 2016)
- 75007-0101; FLIR A65 FOV 90 (30 Hz, ver. 2016)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°



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- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 65702-0102; FLIR GF343 24° Fixed lens
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 71502-0101; FLIR G300 a 14.5° fixed lens
- 71502-0102; FLIR G300 a 24° fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 63901-0101; FLIR E4
- 63906-0604; FLIR E4 (incl. Wi-Fi)
- 63905-0501; FLIR E5
- 63909-0904; FLIR E5 (incl. Wi-Fi)
- 63902-0202; FLIR E6
- 63907-0704; FLIR E6 (incl. Wi-Fi)
- 63903-0303; FLIR E8
- 63908-0805; FLIR E8 (incl. Wi-Fi)
- 72001-0101; FLIR C2
- 72002-0202; FLIR C2 Educational Kit
- 72003-0303; FLIR C3 (incl. Wi-Fi)
- 72003-0404; FLIR C3 (incl. Wi-Fi) Educational Kit

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General description

The FLIR Atlas SDK for MATLAB is a software development kit that enables developers to create applications. Supported by help files and sample code, developers can add functionality or collaborate with other FLIR products to get the result they want in their application.

Key features:

- Supports communication and streaming using FireWire, Gigabit, RTSP, and USB interfaces.
- Gives the user full control of the camera.
- Supports recording of images using FireWire, Gigabit, RTSP, and USB interfaces.
- Converts 16-bit signal pixels into temperature data, for maximum user flexibility.
- Allows 16-bit temperature linear, histogram, and signal outputs.

Release notes

Version	3.1
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Shipping information

Packaging, type	Cardboard box
List of contents	Download card with printed license key
Packaging, weight	0.056 kg (0.123 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558011133
UPC-12	845188012021
Country of origin	Sweden

System requirements

Operating system	MATLAB 2015 (32- and 64-bit) and one of the following operating systems: <ul style="list-style-type: none"> • Windows 7 (32- and 64-bit) • Windows 8 (32- and 64-bit) • Windows 10 (32- and 64-bit)
------------------	--

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)

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- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 73309-0102; FLIR A35 f=9 mm with SC kit
- 83225-0101; FLIR A35 FOV 13 (60 Hz, ver. 2017)
- 83213-0102; FLIR A35 FOV 25 (60 Hz, ver. 2017)
- 83207-0102; FLIR A35 FOV 45 (60 Hz, ver. 2017)
- 83250-0101; FLIR A35 FOV 6.5 (60 Hz, ver. 2017)
- 83209-0102; FLIR A35 FOV 69 (30 Hz, ver. 2017)
- 73413-0102; FLIR A65 f=13 mm with SC kit (30 Hz)
- 73513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 75050-0101; FLIR A65 FOV 12.4 (30 Hz, ver. 2016)
- 75025-0101; FLIR A65 FOV 25 (30 Hz, ver. 2016)
- 75013-0101; FLIR A65 FOV 45 (30 Hz, ver. 2016)
- 75010-0101; FLIR A65 FOV 6.2 (30 Hz, ver. 2016)
- 75007-0101; FLIR A65 FOV 90 (30 Hz, ver. 2016)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°

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- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 65702-0102; FLIR GF343 24° Fixed lens
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 71502-0101; FLIR G300 a 14.5° fixed lens
- 71502-0102; FLIR G300 a 24° fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 63901-0101; FLIR E4
- 63906-0604; FLIR E4 (incl. Wi-Fi)
- 63905-0501; FLIR E5
- 63909-0904; FLIR E5 (incl. Wi-Fi)
- 63902-0202; FLIR E6
- 63907-0704; FLIR E6 (incl. Wi-Fi)
- 63903-0303; FLIR E8
- 63908-0805; FLIR E8 (incl. Wi-Fi)
- 72001-0101; FLIR C2
- 72002-0202; FLIR C2 Educational Kit
- 72003-0303; FLIR C3 (incl. Wi-Fi)
- 72003-0404; FLIR C3 (incl. Wi-Fi) Educational Kit

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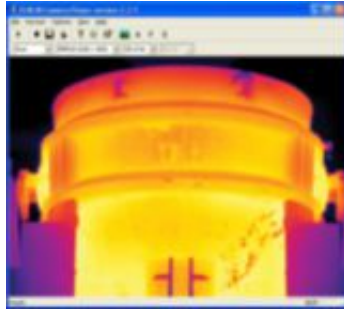
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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
FLIR IR Camera Player is a PC-based remote control and viewer that you can use with cameras from FLIR Systems.	
You can perform one or more of the following with FLIR IR Camera Player:	
<ul style="list-style-type: none"> Record a video stream from the camera. Save a frame from the video stream as a snapshot image (*.bmp). Autofocus, focus far, and focus near. Autoadjust the camera image. Freeze the camera image. Save a camera image in the camera. Change Color palette. Add an image description and a text comment to an image. 	
You connect a camera in one of the following ways:	
<ul style="list-style-type: none"> Ethernet FireWire USB 	
Download	
This software is a freeware. To download, click the following link:	
http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=89	
Release notes	
Version	2.3.3
New features	Main improvements in version 2.3.3: <ul style="list-style-type: none"> Added latest device drivers (1.9.1.0). Various bugfixes Main improvements in version 2.2.7: <ul style="list-style-type: none"> Added support for FLIR Ax5 series.
System requirements	
Operating system	<ul style="list-style-type: none"> Windows XP, 32-bit Windows Vista, 32-bit/64-bit Windows 7, 32-bit/64-bit

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)

P/N: DSW-10000

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Website

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Customer support

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- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 73309-0102; FLIR A35 f=9 mm with SC kit
- 83225-0101; FLIR A35 FOV 13 (60 Hz, ver. 2017)
- 83213-0102; FLIR A35 FOV 25 (60 Hz, ver. 2017)
- 83207-0102; FLIR A35 FOV 45 (60 Hz, ver. 2017)
- 83250-0101; FLIR A35 FOV 6.5 (60 Hz, ver. 2017)
- 83209-0102; FLIR A35 FOV 69 (30 Hz, ver. 2017)
- 73413-0102; FLIR A65 f=13 mm with SC kit (30 Hz)
- 73513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 75050-0101; FLIR A65 FOV 12.4 (30 Hz, ver. 2016)
- 75025-0101; FLIR A65 FOV 25 (30 Hz, ver. 2016)
- 75013-0101; FLIR A65 FOV 45 (30 Hz, ver. 2016)
- 75010-0101; FLIR A65 FOV 6.2 (30 Hz, ver. 2016)
- 75007-0101; FLIR A65 FOV 90 (30 Hz, ver. 2016)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

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General description

FLIR Reporter Professional is a powerful software for creating compelling and professional, fully customized, easy-to-interpret maintenance reports.

Professional Report Wizard guides you step-by-step in combining all IR inspection data - infrared and visual images, temperature measurements, and text notes – into a professional, easy-to-interpret maintenance report.

Key features:

- Flexible report page design and layout for customized reports
- Use quick insert function to easily create custom report pages
- Fully integrated with standard Microsoft Word
- Generates reports in standard MS Office format and PDF-format
- Powerful temperature analysis
- Triple Fusion Picture-in-Picture (movable, sizable, scalable)
- Rapid report manager supporting automatic report generation by drag-and-drop
- Support for MSX (Multi-Spectral Dynamic Imaging) images
- Support for sketch images in both IR and visual with on/off toggling
- Support for same FOV ("Field of View Match")
- Grid settings
- Trending functionality
- Automatic link to Google™ Maps for images with GPS coordinates
- Automatic summary table for the report
- Fine tune images and make full temperature analysis directly in Microsoft Word
- Spell check
- Create your own formulas including measurement values from images
- Play radiometric sequences directly in the report
- Search functionality to quickly finding images for your report
- Panorama tool for combining several images to a larger image
- Support for GF series IR images
- Auto Update function
- Support for METERLiNK™ data
- *.docx compatibility

Download

Download your copy of FLIR Reporter Professional here:

<http://support.flir.com/reporter>

Release notes

Version	9.2
New features	News in 9.2 <ul style="list-style-type: none"> • Option to hide Zoom Viewer • Option to extract Visual image from MSI/Fusion image. • Support for the new FLIR Ex and Exx series cameras. • Support for multispectral images. • Support for auto-oriented images. • Various bug fixes.



FLIR Reporter Professional (license only)

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Website

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Shipping information	
Packaging, type	Cardboard box
List of contents	• FLIR Reporter Professional scratchcard
Packaging, weight	0.135 kg (0.3 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005286 4743254001893 (Estonia plant)
UPC-12	845188005498
Country of origin	Sweden

System requirements	
Operating system	• Windows 7, 32-bit • Windows 7, 64-bit • Windows 8, 32-bit • Windows 8, 64-bit • Windows 10, 32-bit • Windows 10, 64-bit
Software requirements	• Office 2007 (32-bit) • Office 2010 (32-bit) • Office 2013 (32-bit) • Office 2016 (32-bit)

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

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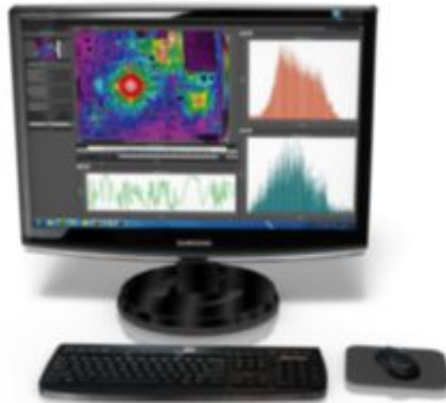
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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description
FLIR ResearchIR Max + HSDR 4 contains all the features of FLIR ResearchIR Max 4, plus support for FLIR High Speed Data Recorder (HSDR) products.
Main features:
<ul style="list-style-type: none"> • Pre/post-recording. • Mathematical processing toolbox. • Image filtering toolbox. • Radiometric digital detail enhancement (DDE) improves dramatically the understanding of the thermal image, while maintaining radiometric measurement accuracy. • View, record and store images at high speed. • Post-processing of fast thermal events. • Generate time-temperature plots from live images or recorded sequences. • Advanced start/stop recording conditions. • Unlimited number of analysis functions (spot, line, area). • File organizer. • Zoom and pan allows a closer look. • Multiple dockable objects for plots and statistics. • Export images and results to bitmap, video, Excel, MATLAB or CSV formats • Local scale gain control on measurement - automatically adjusts the contrast in a specific part of the image.
FLIR ResearchIR Max + HSDR 4 in combination with a FLIR thermal imaging camera is the perfect solution for any R&D or scientific application. It will allow researchers in all fields to make the smallest of temperature differences visible and to thoroughly analyze the thermal process in real-time.

Download
Download your copy of FLIR ResearchIR Max + HSDR 4 here (hardware security device required to run the software):
http://support.flir.com/rir4

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • FLIR ResearchIR Max + HSDR 4 download card. • Hardware security device.
Packaging, weight	0.068 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558007280
UPC-12	845188007652
Country of origin	Sweden

Compatible with the following products:

- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°



FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)

P/N: T198697

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Website

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Customer support

<http://support.flir.com>

- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens



FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)

P/N: T198697

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

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General description

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Main features:

- Pre/post-recording.
- Mathematical processing toolbox.
- Image filtering toolbox.
- Radiometric digital detail enhancement (DDE) improves dramatically the understanding of the thermal image, while maintaining radiometric measurement accuracy.
- View, record and store images at high speed.
- Post-processing of fast thermal events.
- Generate time-temperature plots from live images or recorded sequences.
- Advanced start/stop recording conditions.
- Unlimited number of analysis functions (spot, line, area).
- File organizer.
- Zoom and pan allows a closer look.
- Multiple dockable objects for plots and statistics.
- Export images and results to bitmap, video, Excel, MATLAB or CSV formats
- Local scale gain control on measurement - automatically adjusts the contrast in a specific part of the image.

FLIR ResearchIR Max + HSDR 4 in combination with a FLIR thermal imaging camera is the perfect solution for any R&D or scientific application. It will allow researchers in all fields to make the smallest of temperature differences visible and to thoroughly analyze the thermal process in real-time.

Download

Download your copy of FLIR ResearchIR Max + HSDR 4 here (evaluation copy only – license key required):

<http://support.flir.com/rir4>

Shipping information

Packaging, type	Cardboard box
List of contents	FLIR ResearchIR Max + HSDR 4 download card, incl. license key.
Packaging, weight	0.068 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558010464
UPC-12	845188011116
Country of origin	Sweden

Compatible with the following products:

- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case



FLIR ResearchIR Max + HSDR 4 (printed license key)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
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- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
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- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)



FLIR ResearchIR Max + HSDR 4 (printed license key)

P/N: T199014

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

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- Image filtering toolbox.
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- Post-processing of fast thermal events.
- Generate time-temperature plots from live images or recorded sequences.
- Advanced start/stop recording conditions.
- Unlimited number of analysis functions (spot, line, area).
- File organizer.
- Zoom and pan allows a closer look.
- Multiple dockable objects for plots and statistics.
- Export images and results to bitmap, video, Excel, MATLAB or CSV formats
- Local scale gain control on measurement - automatically adjusts the contrast in a specific part of the image.

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Download

Download your copy of FLIR ResearchIR Max + HSDR 4 here (evaluation copy only – license key required):

<http://support.flir.com/rir4>

Shipping information

Packaging, type	Cardboard box
List of contents	FLIR ResearchIR Max + HSDR 4 download card, incl. license key.
Packaging, weight	0.068 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558010495
UPC-12	845188011147
Country of origin	Sweden

Compatible with the following products:

- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case



FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)

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Website

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Customer support

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- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)



FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)

P/N: T199044

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

P/N: T198696

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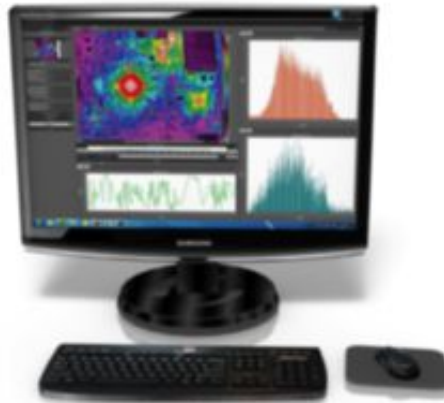
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Website

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General description

FLIR ResearchIR Max 4 is aimed at R&D and science professionals who use thermal imaging cameras with a cooled or uncooled detectors. FLIR ResearchIR Max makes the most of a thermal imaging camera, and allows high-speed recording and advanced thermal pattern analysis. FLIR ResearchIR Max is the perfect tool for industrial R&D.

Main features:

- Pre/post-recording.
- Mathematical processing toolbox.
- Image filtering toolbox.
- Radiometric digital detail enhancement (DDE) improves dramatically the understanding of the thermal image, while maintaining radiometric measurement accuracy.
- View, record and store images at high speed.
- Post-processing of fast thermal events.
- Generate time-temperature plots from live images or recorded sequences.
- Advanced start/stop recording conditions.
- Unlimited number of analysis functions (spot, line, area).
- File organizer.
- Zoom and pan allows a closer look.
- Multiple dockable objects for plots and statistics.
- Export images and results to bitmap, video, Excel, MATLAB or CSV formats
- Local scale gain control on measurement - automatically adjusts the contrast in a specific part of the image.

FLIR ResearchIR Max 4 in combination with a FLIR thermal imaging camera is the perfect solution for any R&D or scientific application. It will allow researchers in all fields to make the smallest of temperature differences visible and to thoroughly analyze the thermal process in real-time.

Download

Download your copy of FLIR ResearchIR Max 4 here (hardware security device required to run the software):

<http://support.flir.com/rir4>

Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • FLIR ResearchIR Max 4 download card. • Hardware security device.
Packaging, weight	0.066 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558007266
UPC-12	845188007638
Country of origin	Sweden

Compatible with the following products:

- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0401; FLIR T1050sc 12°



FLIR ResearchIR Max 4 (hardware sec. dev.)

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Website

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Customer support

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- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 84502-0201; FLIR E53 24°
- 78501-0101; FLIR E75 14°
- 78502-0101; FLIR E75 24°
- 78504-0101; FLIR E75 24° + 14°
- 78506-0101; FLIR E75 24° + 14° & 42°
- 78505-0101; FLIR E75 24° + 42°
- 78503-0101; FLIR E75 42°
- 78507-0101; FLIR E75 42° + 14°
- 78501-0201; FLIR E85 14°
- 78502-0201; FLIR E85 24°
- 78504-0201; FLIR E85 24° + 14°
- 78506-0201; FLIR E85 24° + 14° & 42°
- 78505-0201; FLIR E85 24° + 42°
- 78503-0201; FLIR E85 42°
- 78507-0201; FLIR E85 42° + 14°
- 78501-0301; FLIR E95 14°
- 78502-0301; FLIR E95 24°
- 78504-0301; FLIR E95 24° + 14°
- 78506-0301; FLIR E95 24° + 14° & 42°
- 78505-0301; FLIR E95 24° + 42°
- 78503-0301; FLIR E95 42°
- 78507-0301; FLIR E95 42° + 14°
- 79301-0101; FLIR T530 14°
- 79302-0101; FLIR T530 24°
- 79304-0101; FLIR T530 24° + 14°
- 79306-0101; FLIR T530 24° + 14° & 42°
- 79305-0101; FLIR T530 24° + 42°
- 79303-0101; FLIR T530 42°
- 79307-0101; FLIR T530 42° + 14°
- 79301-0201; FLIR T540 14°
- 79302-0201; FLIR T540 24°
- 79304-0201; FLIR T540 24° + 14°
- 79306-0201; FLIR T540 24° + 14° & 42°
- 79305-0201; FLIR T540 24° + 42°
- 79303-0201; FLIR T540 42°
- 79307-0201; FLIR T540 42° + 14°

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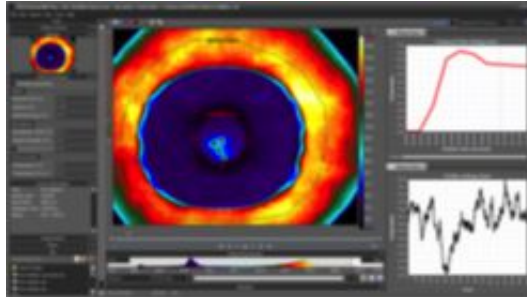
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Website

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Customer support

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General description

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- Mathematical processing toolbox.
- Image filtering toolbox.
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- View, record and store images at high speed.
- Post-processing of fast thermal events.
- Generate time-temperature plots from live images or recorded sequences.
- Advanced start/stop recording conditions.
- Unlimited number of analysis functions (spot, line, area).
- File organizer.
- Zoom and pan allows a closer look.
- Multiple dockable objects for plots and statistics.
- Export images and results to bitmap, video, Excel, MATLAB or CSV formats
- Local scale gain control on measurement - automatically adjusts the contrast in a specific part of the image.

FLIR ResearchIR Max 4 in combination with a FLIR thermal imaging camera is the perfect solution for any R&D or scientific application. It will allow researchers in all fields to make the smallest of temperature differences visible and to thoroughly analyze the thermal process in real-time.

Download

Download your copy of FLIR ResearchIR Max 4 here (evaluation copy only – license key required):

<http://support.flir.com/rir4>

Shipping information

Packaging, type	Cardboard box
List of contents	FLIR ResearchIR Max 4 download card, incl. license key.
Packaging, weight	0.066 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558010457
UPC-12	845188011109
Country of origin	Sweden

Compatible with the following products:

- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case



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Website

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Customer support

<http://support.flir.com>

- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)



P/N: T199013

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 84502-0201; FLIR E53 24°
- 78501-0101; FLIR E75 14°
- 78502-0101; FLIR E75 24°
- 78504-0101; FLIR E75 24° + 14°
- 78506-0101; FLIR E75 24° + 14° & 42°
- 78505-0101; FLIR E75 24° + 42°
- 78503-0101; FLIR E75 42°
- 78507-0101; FLIR E75 42° + 14°
- 78501-0201; FLIR E85 14°
- 78502-0201; FLIR E85 24°
- 78504-0201; FLIR E85 24° + 14°
- 78506-0201; FLIR E85 24° + 14° & 42°
- 78505-0201; FLIR E85 24° + 42°
- 78503-0201; FLIR E85 42°
- 78507-0201; FLIR E85 42° + 14°
- 78501-0301; FLIR E95 14°
- 78502-0301; FLIR E95 24°
- 78504-0301; FLIR E95 24° + 14°
- 78506-0301; FLIR E95 24° + 14° & 42°
- 78505-0301; FLIR E95 24° + 42°
- 78503-0301; FLIR E95 42°
- 78507-0301; FLIR E95 42° + 14°
- 79301-0101; FLIR T530 14°
- 79302-0101; FLIR T530 24°
- 79304-0101; FLIR T530 24° + 14°
- 79306-0101; FLIR T530 24° + 14° & 42°
- 79305-0101; FLIR T530 24° + 42°
- 79303-0101; FLIR T530 42°
- 79307-0101; FLIR T530 42° + 14°
- 79301-0201; FLIR T540 14°
- 79302-0201; FLIR T540 24°
- 79304-0201; FLIR T540 24° + 14°
- 79306-0201; FLIR T540 24° + 14° & 42°
- 79305-0201; FLIR T540 24° + 42°
- 79303-0201; FLIR T540 42°
- 79307-0201; FLIR T540 42° + 14°

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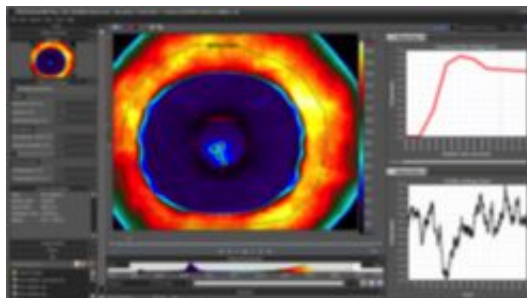
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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

FLIR ResearchIR Max 4 is aimed at R&D and science professionals who use thermal imaging cameras with a cooled or uncooled detectors. FLIR ResearchIR Max makes the most of a thermal imaging camera, and allows high-speed recording and advanced thermal pattern analysis. FLIR ResearchIR Max is the perfect tool for industrial R&D.

Main features:

- Pre/post-recording.
- Mathematical processing toolbox.
- Image filtering toolbox.
- Radiometric digital detail enhancement (DDE) improves dramatically the understanding of the thermal image, while maintaining radiometric measurement accuracy.
- View, record and store images at high speed.
- Post-processing of fast thermal events.
- Generate time-temperature plots from live images or recorded sequences.
- Advanced start/stop recording conditions.
- Unlimited number of analysis functions (spot, line, area).
- File organizer.
- Zoom and pan allows a closer look.
- Multiple dockable objects for plots and statistics.
- Export images and results to bitmap, video, Excel, MATLAB or CSV formats
- Local scale gain control on measurement - automatically adjusts the contrast in a specific part of the image.

FLIR ResearchIR Max 4 in combination with a FLIR thermal imaging camera is the perfect solution for any R&D or scientific application. It will allow researchers in all fields to make the smallest of temperature differences visible and to thoroughly analyze the thermal process in real-time.

Download

Download your copy of FLIR ResearchIR Max 4 here (evaluation copy only – license key required):

<http://support.flir.com/rir4>

Shipping information

Packaging, type	Cardboard box
List of contents	FLIR ResearchIR Max 4 download card, incl. license key.
Packaging, weight	0.066 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558010488
UPC-12	845188011130
Country of origin	Sweden

Compatible with the following products:

- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case



FLIR ResearchIR Max 4 Upgrade (printed license key)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)



FLIR ResearchIR Max 4 Upgrade (printed license key)

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Website

<http://www.flir.com>

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<http://support.flir.com>

- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 84502-0201; FLIR E53 24°
- 78501-0101; FLIR E75 14°
- 78502-0101; FLIR E75 24°
- 78504-0101; FLIR E75 24° + 14°
- 78506-0101; FLIR E75 24° + 14° & 42°
- 78505-0101; FLIR E75 24° + 42°
- 78503-0101; FLIR E75 42°
- 78507-0101; FLIR E75 42° + 14°
- 78501-0201; FLIR E85 14°
- 78502-0201; FLIR E85 24°
- 78504-0201; FLIR E85 24° + 14°
- 78506-0201; FLIR E85 24° + 14° & 42°
- 78505-0201; FLIR E85 24° + 42°
- 78503-0201; FLIR E85 42°
- 78507-0201; FLIR E85 42° + 14°
- 78501-0301; FLIR E95 14°
- 78502-0301; FLIR E95 24°
- 78504-0301; FLIR E95 24° + 14°
- 78506-0301; FLIR E95 24° + 14° & 42°
- 78505-0301; FLIR E95 24° + 42°
- 78503-0301; FLIR E95 42°
- 78507-0301; FLIR E95 42° + 14°
- 79301-0101; FLIR T530 14°
- 79302-0101; FLIR T530 24°
- 79304-0101; FLIR T530 24° + 14°
- 79306-0101; FLIR T530 24° + 14° & 42°
- 79305-0101; FLIR T530 24° + 42°
- 79303-0101; FLIR T530 42°
- 79307-0101; FLIR T530 42° + 14°
- 79301-0201; FLIR T540 14°
- 79302-0201; FLIR T540 24°
- 79304-0201; FLIR T540 24° + 14°
- 79306-0201; FLIR T540 24° + 14° & 42°
- 79305-0201; FLIR T540 24° + 42°
- 79303-0201; FLIR T540 42°
- 79307-0201; FLIR T540 42° + 14°

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Website

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Customer support

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General description	
FLIR ResearchIR Standard 4.0 is aimed at the R&D benchtop testing environment for users of uncooled cameras. FLIR ResearchIR Standard provides the core analysis tools needed for rapid testing and assessment of thermal issues.	
Main features:	
<ul style="list-style-type: none"> • View live imagery from the camera • Record snapshots or movies to disk. • Post-processing of fast thermal events. • Generate time-temperature plots from live images or recorded sequences. • Analysis by region (spot, line, area). • File organizer. • Zoom and pan allows a closer look. • Multiple dockable objects for plots and statistics. • Export images and results to bitmap, Excel, or CSV formats 	
FLIR ResearchIR Standard 4 in combination with a FLIR thermal imaging camera is the perfect solution for any benchtop testing application application.	

Shipping information	
List of contents	<ul style="list-style-type: none"> • FLIR ResearchIR Standard download card. • Hardware security device.
Packaging, weight	0.069 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558008638
UPC-12	845188009151
Country of origin	Sweden

Compatible with the following products:

- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 78502-0101; FLIR E75 24°
- 78504-0101; FLIR E75 24° + 14°
- 78506-0101; FLIR E75 24° + 14° & 42°



P/N: T198731

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 78505-0101; FLIR E75 24° + 42°
- 78503-0101; FLIR E75 42°
- 78507-0101; FLIR E75 42° + 14°
- 78502-0201; FLIR E85 24°
- 78504-0201; FLIR E85 24° + 14°
- 78506-0201; FLIR E85 24° + 14° & 42°
- 78505-0201; FLIR E85 24° + 42°
- 78503-0201; FLIR E85 42°
- 78507-0201; FLIR E85 42° + 14°
- 78502-0301; FLIR E95 24°
- 78504-0301; FLIR E95 24° + 14°
- 78506-0301; FLIR E95 24° + 14° & 42°
- 78505-0301; FLIR E95 24° + 42°
- 78503-0301; FLIR E95 42°
- 78507-0301; FLIR E95 42° + 14°
- 79302-0101; FLIR T530 24°
- 79306-0101; FLIR T530 24° + 14° & 42°
- 79305-0101; FLIR T530 24° + 42°
- 79304-0101; FLIR T530 24° + 14°
- 79303-0101; FLIR T530 42°
- 79307-0101; FLIR T530 42° + 14°
- 79302-0201; FLIR T540 24°
- 79304-0201; FLIR T540 24° + 14°
- 79306-0201; FLIR T540 24° + 14° & 42°
- 79305-0201; FLIR T540 24° + 42°
- 79303-0201; FLIR T540 42°
- 79307-0201; FLIR T540 42° + 14°

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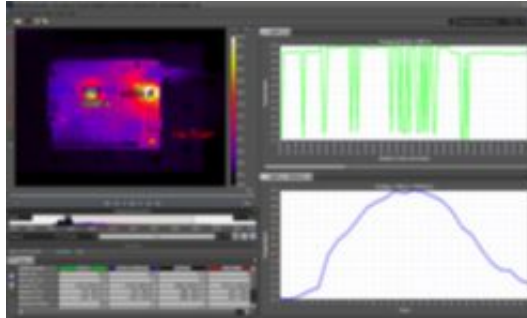
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General description
FLIR ResearchIR Standard 4 is aimed at the R&D benchtop testing environment for users of uncooled cameras. FLIR ResearchIR Standard provides the core analysis tools needed for rapid testing and assessment of thermal issues.
Main features:
<ul style="list-style-type: none"> • View live imagery from the camera • Record snapshots or movies to disk. • Post-processing of fast thermal events. • Generate time-temperature plots from live images or recorded sequences. • Analysis by region (spot, line, area). • File organizer. • Zoom and pan allows a closer look. • Multiple dockable objects for plots and statistics. • Export images and results to bitmap, Excel, or CSV formats
FLIR ResearchIR Standard 4 in combination with a FLIR thermal imaging camera is the perfect solution for any benchtop testing application application.

Download
Download your copy of FLIR ResearchIR 4 here (evaluation copy only – license key required):
http://support.flir.com/rir4

Shipping information	
List of contents	FLIR ResearchIR Standard download card, incl. license key.
Packaging, weight	0.069 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558010440
UPC-12	845188011093
Country of origin	Sweden

Compatible with the following products:

- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72002-0202; FLIR C2 Educational Kit

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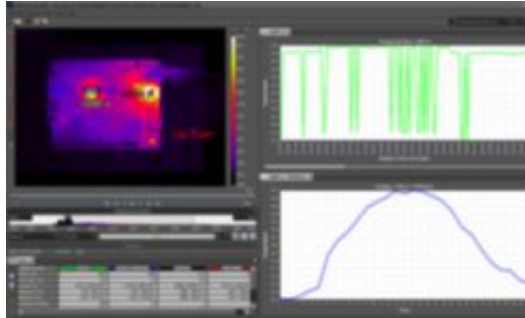
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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description
FLIR ResearchIR Standard 4 is aimed at the R&D benchtop testing environment for users of uncooled cameras. FLIR ResearchIR Standard provides the core analysis tools needed for rapid testing and assessment of thermal issues.
Main features:
<ul style="list-style-type: none"> • View live imagery from the camera • Record snapshots or movies to disk. • Post-processing of fast thermal events. • Generate time-temperature plots from live images or recorded sequences. • Analysis by region (spot, line, area). • File organizer. • Zoom and pan allows a closer look. • Multiple dockable objects for plots and statistics. • Export images and results to bitmap, Excel, or CSV formats
FLIR ResearchIR Standard 4 in combination with a FLIR thermal imaging camera is the perfect solution for any benchtop testing application application.

Download
Download your copy of FLIR ResearchIR 4 here (evaluation copy only – license key required):
http://support.flir.com/rir4

Shipping information	
List of contents	FLIR ResearchIR Standard download card, incl. license key.
Packaging, weight	0.069 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558010471
UPC-12	845188011123
Country of origin	Sweden

Compatible with the following products:

- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)



FLIR ResearchIR Standard 4 Upgrade (printed license key)

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- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

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Website

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General description

FLIR Tools is a software suite specifically designed to provide an easy way to update your camera and create inspection reports.

Key features:

- Report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR).
- Manual IR/Visual Image Grouping
- Import images from your camera to your computer.
- Apply filters when searching for images.
- Search all text in images and text annotations.
- Store the five latest search criteria's.
- Lay out, move, and resize measurement tools on any infrared image.
- Create PDF imagesheets of any images of your choice.
- Add headers, footers, and logos to imagesheets.
- Create PDF reports for images of your choice.
- Add headers, footers, and logos to reports.
- Report editor (report page preview and snap to grid).
- Sort function (by date, groups sorted by path, and groups sorted by date).
- Browse and purchase infrared cameras, software, and accessories in the webshop.
- Software localized to 21 languages.
- Support for MSX (Multi-Spectral Dynamic Imaging) Images
- Support for Sketch Images on both IR and Visual with toggling ON/OFF feature.
- Support for Same FOV (Field of View Match)
- Display of Compass Information in Edit and in Report.
- Display of GPS Information in Edit and in Report.
- Camera update (applies to FLIR Ex, Kxx, Exx and T6xx series only).

Download

This software is a freeware. To download, click the following link:

<http://support.flir.com/tools>

Release notes

Version	5.9
New features in version 5.9	<ul style="list-style-type: none"> • Additional trigger options for FLIR K53, K55, and K65 cameras • Added user account registration and login • New Pleora version support • Various bug fixes
New features in version 5.7	<ul style="list-style-type: none"> • Five modes supported for K65, K55, and K53 cameras. • Support for Kx3 cameras. • Auto gain mode now available for K2 cameras. • Various bug fixes.
New features in version 5.5	<ul style="list-style-type: none"> • Added support for Microsoft Office 2016 (32-bit) for the FLIR Word Reporting module. • Various bug fixes.

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Release notes	
New features in version 5.3	<ul style="list-style-type: none"> Support for the FLIR T1020 and T1040 cameras for import, edit, report creation, and camera update. Support for the FLIR K2 camera for configuration, video streaming, and camera update. Delta (difference) readings are now on one line instead of two.
New features in version 5.2.1	<ul style="list-style-type: none"> Option added to change color distribution mode (histogram equalization, signal linear, temperature linear). Option added to extract photos at their full field of view. Various bug fixes.
New features in version 5.2	<ul style="list-style-type: none"> Support for auto-adjusting a region. Support for zoom. Various bug fixes.
New features in version 5.1	<ul style="list-style-type: none"> Improved import performance. Added support for video recording settings for FLIR Kxx series. Added support for importing video files from FLIR Kxx series. Added support for FLIR C2 camera. Various bug fixes.
New features in version 5.0	<ul style="list-style-type: none"> Local object parameters for measurement tools. Save a report in-process with the ability to edit at a later time. Pull-down menus for text annotations. Variable playback speed for recordings. Show or hide min./max./avg. temperature, and hot/cold markers, for areas and lines. Smoother display for low-resolution images. UltraMax image enhancement. Dropping support for Windows XP. Various bug fixes.
New features in version 4.1	<ul style="list-style-type: none"> Previous/next in Edit mode. Clone in the Library. Extract visual photo from a multispectral image. Import *.mp4, *.seq, and *.csq files from the camera. Playback/edit *.seq and *.csq files. Scale enhancement for the FLIR GF3xx series. Auto resize of thumbnails during importing for the FLIR T6xx series. Grouping/ungrouping now added. Various bug fixes.
New features in version 4.0	<ul style="list-style-type: none"> Support for the new FLIR Ex and Exx series cameras. Interactive quick start guide when connecting a FLIR camera. Improved library view. Support for multispectral images. Support for auto-oriented images. Various bug fixes.
New features in version 3.1	<ul style="list-style-type: none"> Support for FLIR K series cameras. Interactive quick start guide when connecting a FLIR K series camera. Live image streaming from FLIR K series cameras. PC-side configuration of FLIR K series cameras. New report templates for DC images only added. Various bug fixes.
New features in version 3.0	<ul style="list-style-type: none"> Add folder to library. Support for isotherms and color alarms Image description for both IR and DC. Export functionality (*.avi, *.csv). Microsoft Windows 8 (32- and 64-bit) New web installer Various bug fixes.

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Release notes	
New features in version 2.2	<ul style="list-style-type: none"> Camera tab: <ul style="list-style-type: none"> Logging feature in Camera Tab Recording and playback of SEQ files. Various bug fixes.
New features in version 2.1	<ul style="list-style-type: none"> New Text Comment Template Tab: <ul style="list-style-type: none"> Create, Edit and Transfer templates to and from any FLIR Camera. Import and Export of Templates. Support for MSX (Multi-Spectral Dynamic Imaging) Images Support for Sketch Images on both IR and Visual with toggling ON/OFF feature. Support for Same FOV (Field of View Match) Display of Compass Information in Edit and in Report. Display of GPS Information in Edit and in Report. <ul style="list-style-type: none"> Direct Link to Google Maps for GPS Tagged images from Report. Support for 3x5 and 6x5 A-series cameras
New features in version 2.0	<ul style="list-style-type: none"> Camera tab: <ul style="list-style-type: none"> Camera connection with FLIR UVC cameras. Measurement data analysis. Plotting. Snapshot saving with text annotation and plot. Performance improvement for large reports: can now create reports and imagesheets of up to 200 pages. Various bug fixes.
New features in version 1.3	<ul style="list-style-type: none"> Import from ix series cameras. Add and remove a form from a group. Text comments are now saved in the infrared image. The indexing engine can create groups from IR, DC, and text annotations when indexing the paths in the watch folder. Arrow tool in the report toolbar. Reorder pages. Text annotations can now be edited in the report. New report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR). New sample images.
New features in version 1.2 SP1	<ul style="list-style-type: none"> Various bug fixes.
New features in version 1.2	<ul style="list-style-type: none"> Search function: <ul style="list-style-type: none"> Store the five latest search criterias. Search in all texts in images and text annotations. Sort function: <ul style="list-style-type: none"> By date. Groups sorted by by path. Groups sorted by date. Report editor: <ul style="list-style-type: none"> Report page preview. Snap to grid. Various bug fixes.
New features in version 1.1 SP1	<ul style="list-style-type: none"> Extension to the camera update functionality. Various bug fixes
New features in version 1.1	<ul style="list-style-type: none"> Software localized to 21 languages. Camera update. (Exx, T6xx) Option to rotate an infrared image in the infrared editor.

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> Digital download, or CD-ROM
Packaging, weight	0.106 kg (0.23 lb.)



FLIR Tools

P/N: T198584

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>**Shipping information**

Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005279
UPC-12	845188005481
Country of origin	Sweden

System requirements

Operating system	<ul style="list-style-type: none">• Windows 7, 32-bit• Windows 7, 64-bit• Windows 8, 32-bit• Windows 8, 64-bit• Windows 10, 32-bit• Windows 10, 64-bit
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Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)

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Website

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Customer support

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- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 73309-0102; FLIR A35 f=9 mm with SC kit
- 83225-0101; FLIR A35 FOV 13 (60 Hz, ver. 2017)
- 83213-0102; FLIR A35 FOV 25 (60 Hz, ver. 2017)
- 83207-0102; FLIR A35 FOV 45 (60 Hz, ver. 2017)
- 83250-0101; FLIR A35 FOV 6.5 (60 Hz, ver. 2017)
- 83209-0102; FLIR A35 FOV 69 (30 Hz, ver. 2017)
- 73413-0102; FLIR A65 f=13 mm with SC kit (30 Hz)
- 73513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 75050-0101; FLIR A65 FOV 12.4 (30 Hz, ver. 2016)
- 75025-0101; FLIR A65 FOV 25 (30 Hz, ver. 2016)
- 75013-0101; FLIR A65 FOV 45 (30 Hz, ver. 2016)
- 75010-0101; FLIR A65 FOV 6.2 (30 Hz, ver. 2016)
- 75007-0101; FLIR A65 FOV 90 (30 Hz, ver. 2016)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72001-0101; FLIR C2
- 72002-0202; FLIR C2 Educational Kit
- 72003-0303; FLIR C3 (incl. Wi-Fi)
- 72003-0404; FLIR C3 (incl. Wi-Fi) Educational Kit

P/N: APP-10002

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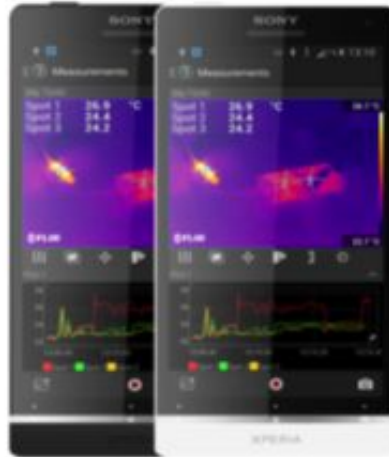
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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
FLIR Tools Mobile is an intuitive Android app for analyzing, managing, and distributing infrared images.	
Key features:	
<ul style="list-style-type: none"> • Remote control • MSX • Images with sketch on DC and IR • Images with field of view follow • Editable text comments • Emissivity table • Import images from your Wi-Fi-enabled camera. • Connect and stream infrared images from the camera. • Connect and stream measurement data from FLIR Test & Measurement meters • Lay out and move measurement tools on the image. • Read out temperature measurements. • Create and configure temporal plots based on results of measurement tools on the infrared image. • Log measurement data and export it as a *.csv file. • Save a measurement scenario as a data snapshot. • Zoom in on images. • On the Android device, remotely take snapshots when a camera is connected. • On the camera, take snapshots that will automatically be saved on the Android device. • Delete images on the Android device. • Display an image's GPS coordinates on Google Maps. • Create and e-mail reports. • Save images in the Android device photo library. • Send images to FTP sites and other file-sharing services (Dropbox, Box.net, etc.). • Display image information, e.g., object parameters, text comments, and file details. • Play back voice comments. • Change the level and span. • Change general settings in the app. • Change the palette. 	
Download	
The application can be downloaded from Android Market or Amazon Marketplace, see the link below.	
https://market.android.com/details?id=com.flir.viewer	
Release notes	
Version	3.8.0
New features	Main improvements in version 3.8.0: <ul style="list-style-type: none"> • Fixed loading of Japanese help files. • Fixed import bug for Samsung S6. • Fixed opening image taken from CAT S60. • Support for Ex, C3, and the new Exx cameras. • Import from Work folders. • Area measurement and length measurement feature based on object distance. • Various bug fixes.



FLIR Tools Mobile (Android Application)

P/N: APP-10002

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

System requirements

Operating system

- Android 4.03 and later

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

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Website

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Customer support

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<p>General description</p> <p>FLIR Tools Mobile lets professional thermographers use an iPad, iPhone, or iPod touch to see and capture live, streaming infrared video and stills from select FLIR cameras.</p> <p>With FLIR Tools Mobile the camera can be stationed in one area and operated wirelessly from another – highly useful for IR inspections of energized equipment or performing IR surveys in hard-to-reach locations and harsh working environments. Streaming video and remote access also gives decision makers and others on your team a valuable opportunity to observe and collaborate in the thermal imaging process.</p> <p>Using FLIR Tools Mobile, you can do one or more of the following:</p> <ul style="list-style-type: none"> • Import images from your infrared camera • Lay out and move measurement tools on the image • Read out temperature measurements • Zoom in on images • On the iPhone/iPad, remotely take snapshots when a camera is connected • On the camera, take snapshots that will automatically be saved in the iPhone/iPad • Delete any images on the iPhone/iPad • Display an image's GPS coordinates on Google Maps • Create and e-mail imagesheets • Create and e-mail reports • Print imagesheets and reports to any AirPrint-enabled printer • Save images to iPhone/iPad photo library • Send images to FTP sites and other file sharing services (Dropbox, Box.net, etc.) • Display image information, such as object parameters, text comments, file information, etc. • Play-back voice comments • Change level and span • Change general settings in the app • Change palette <p>FLIR Tools Mobile lets you take control of the following features on selected cameras:</p> <ul style="list-style-type: none"> • Remote control of your FLIR camera. • Support for MSX (Multi-Spectral Dynamic Imaging) images. • Support for sketch images in both IR and visual with on/off toggling. • Support for same FOV ("Field of View Match"). • Editable text comments. • Auto and manual focus • Level and span • Color palettes • Temperature measurement analytics • Spot • Area box • Circle • Line • Parameter settings • Emissivity • Reflected temperature • Relative humidity • Atmospheric temperature • IR and visible light image blending • Picture-in-picture • Thermal fusion • Image storage • MPEG 4 video • Radiometric JPEG stills
--



FLIR Tools Mobile (iPad/iPhone Application)

P/N: APP-10003

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Download
The application can be downloaded from App Store, see the link below.
http://itunes.apple.com/app/flir-tools/id511247887?mt=8

Release notes	
Version	1.8.2
New features	Main improvements in version 1.8.2: Various bug fixes.

System requirements	
Operating system	• iOS 8.0 or later
Hardware requirements	• iPhone • iPad • iPod

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°

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Website

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Customer support

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General description

Compared to FLIR Tools, FLIR Tools+ has the following features:

- Radiometric Panorama incl. MSX
- Radiometric IR Video Recording
- Advanced Reporting

FLIR Tools/Tools+ is a software suite specifically designed to provide an easy way to update your camera and create inspection reports.

FLIR Tools+ main features:

- Manual IR/Visual Image Grouping
- Radiometric Panorama incl. MSX
- Radiometric IR Video Recording
- Advanced Reporting for Microsoft Office.
- Report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR).
- Import images from your camera to your computer.
- Apply filters when searching for images.
- Search all text in images and text annotations.
- Store the five latest search criteria's.
- Lay out, move, and resize measurement tools on any infrared image.
- Create PDF imagesheets of any images of your choice.
- Add headers, footers, and logos to imagesheets.
- Create PDF reports for images of your choice.
- Add headers, footers, and logos to reports.
- Report editor (report page preview and snap to grid).
- Sort function (by date, groups sorted by path, and groups sorted by date).
- Browse and purchase infrared cameras, software, and accessories in the webshop.
- Software localized to 21 languages.
- Support for MSX (Multi-Spectral Dynamic Imaging) Images
- Support for Sketch Images on both IR and Visual with toggling ON/OFF feature.
- Support for Same FOV (Field of View Match)
- Display of Compass Information in Edit and in Report.
- Display of GPS Information in Edit and in Report.
- Camera update (applies to FLIR Ex, Kxx, Exx and T6xx series only).

Download

Download a 30-day evaluation version here:

<http://support.flir.com/toolsplus>

Release notes

Version	5.9
New features in version 5.9	<ul style="list-style-type: none"> • Additional trigger options for FLIR K53, K55, and K65 cameras • Added user account registration and login • New Pleora version support • Various bug fixes
New features in version 5.7	<ul style="list-style-type: none"> • Five modes supported for K65, K55, and K53 cameras. • Support for Kx3 cameras. • Auto gain mode now available for K2 cameras. • Various bug fixes.



FLIR Tools+ (download card incl. license key)

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Website

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Customer support

<http://support.flir.com>

Release notes	
New features in version 5.5	<ul style="list-style-type: none"> Added support for Microsoft Office 2016 (32-bit) for the FLIR Word Reporting module. Various bug fixes.
New features in version 5.3	<ul style="list-style-type: none"> Support for the FLIR T1020 and T1040 cameras for import, edit, report creation, and camera update. Support for the FLIR K2 camera for configuration, video streaming, and camera update. Delta (difference) readings are now on one line instead of two.
New features in version 5.2.1	<ul style="list-style-type: none"> Option added to change color distribution mode (histogram equalization, signal linear, temperature linear). "Rapid Report" shortcuts added to simplify reporting using a drag-and-drop operation. Option added to extract photos at their full field of view. Two new templates for express export added (Photo_Large and Thermalx1 Photox2). Various bug fixes.
New features in version 5.2	<ul style="list-style-type: none"> Support for auto-adjusting a region. Support for zoom. Express Microsoft Word reporting (*.docx). Various bug fixes.
New features in version 5.1	<ul style="list-style-type: none"> Improved import performance. Added support for video recording settings for FLIR Kxx series. Added support for importing video files from FLIR Kxx series. Added support for FLIR C2 camera. Various bug fixes.
New features in version 5.0	<ul style="list-style-type: none"> Local object parameters for measurement tools. Save a report in-process with the ability to edit at a later time. Pull-down menus for text annotations. Variable playback speed for recordings. Show or hide min./max./avg. temperature, and hot/cold markers, for areas and lines. Smoother display for low-resolution images. UltraMax image enhancement. Dropping support for Windows XP. Various bug fixes.
New features in version 4.1	<ul style="list-style-type: none"> Previous/next in Edit mode. Clone in the Library. Extract visual photo from a multispectral image. Import *.mp4, *.seq, and *.csq files from the camera. Playback/edit *.seq and *.csq files. Scale enhancement for the FLIR GF3xx series. Auto resize of thumbnails during importing for the FLIR T6xx series. Grouping/ungrouping now added. Various bug fixes.
New features in version 4.0	<ul style="list-style-type: none"> Support for the new FLIR Ex and Exx series cameras. Interactive quick start guide when connecting a FLIR camera. Improved library view. Support for multispectral images. Support for auto-oriented images. Various bug fixes.
New features in version 3.1	<ul style="list-style-type: none"> Support for FLIR K series cameras. Interactive quick start guide when connecting a FLIR K series camera. Live image streaming from FLIR K series cameras. PC-side configuration of FLIR K series cameras. New report templates for DC images only added. Various bug fixes.



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Website

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Customer support

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Release notes	
New features in version 3.0	<ul style="list-style-type: none">• Add folder to library.• Support for isotherms and color alarms• Image description for both IR and DC.• Export functionality (*.avi, *.csv).• Microsoft Windows 8 (32- and 64-bit)• New web installer• Radiometric panorama with MSX images.• Advanced reports.• Manual grouping/ungrouping of images.• Various bug fixes.
New features in version 2.2	<ul style="list-style-type: none">• Camera tab:<ul style="list-style-type: none">• Logging feature in Camera Tab• Recording and playback of SEQ files.• Various bug fixes.

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• FLIR Tools+ (download card incl. license key)
Packaging, weight	0.059 kg (0.13 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	73325585378 4743254001442 (Estonia plant)
UPC-12	845188005580
Country of origin	Sweden

System requirements	
Operating system	<ul style="list-style-type: none">• Windows 7, 32-bit• Windows 7, 64-bit• Windows 8, 32-bit• Windows 8, 64-bit• Windows 10, 32-bit• Windows 10, 64-bit
Software requirements	<ul style="list-style-type: none">• Office 2007 (32-bit)• Office 2010 (32-bit)• Office 2013 (32-bit)• Office 2016 (32-bit)

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)

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Website

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Customer support

<http://support.flir.com>

- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 73309-0102; FLIR A35 f=9 mm with SC kit
- 83225-0101; FLIR A35 FOV 13 (60 Hz, ver. 2017)
- 83213-0102; FLIR A35 FOV 25 (60 Hz, ver. 2017)
- 83207-0102; FLIR A35 FOV 45 (60 Hz, ver. 2017)
- 83250-0101; FLIR A35 FOV 6.5 (60 Hz, ver. 2017)
- 83209-0102; FLIR A35 FOV 69 (30 Hz, ver. 2017)
- 73413-0102; FLIR A65 f=13 mm with SC kit (30 Hz)
- 73513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 75050-0101; FLIR A65 FOV 12.4 (30 Hz, ver. 2016)
- 75025-0101; FLIR A65 FOV 25 (30 Hz, ver. 2016)
- 75013-0101; FLIR A65 FOV 45 (30 Hz, ver. 2016)
- 75010-0101; FLIR A65 FOV 6.2 (30 Hz, ver. 2016)
- 75007-0101; FLIR A65 FOV 90 (30 Hz, ver. 2016)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 84502-0201; FLIR E53 24°
- 78501-0101; FLIR E75 14°
- 78502-0101; FLIR E75 24°
- 78504-0101; FLIR E75 24° + 14°
- 78506-0101; FLIR E75 24° + 14° & 42°
- 78505-0101; FLIR E75 24° + 42°
- 78503-0101; FLIR E75 42°
- 78507-0101; FLIR E75 42° + 14°
- 78501-0201; FLIR E85 14°
- 78502-0201; FLIR E85 24°
- 78504-0201; FLIR E85 24° + 14°
- 78506-0201; FLIR E85 24° + 14° & 42°
- 78505-0201; FLIR E85 24° + 42°
- 78503-0201; FLIR E85 42°
- 78507-0201; FLIR E85 42° + 14°
- 78501-0301; FLIR E95 14°
- 78502-0301; FLIR E95 24°
- 78504-0301; FLIR E95 24° + 14°
- 78506-0301; FLIR E95 24° + 14° & 42°
- 78505-0301; FLIR E95 24° + 42°
- 78503-0301; FLIR E95 42°
- 78507-0301; FLIR E95 42° + 14°
- 63901-0101; FLIR E4
- 63906-0604; FLIR E4 (incl. Wi-Fi)
- 63905-0501; FLIR E5
- 63909-0904; FLIR E5 (incl. Wi-Fi)
- 63902-0202; FLIR E6
- 63907-0704; FLIR E6 (incl. Wi-Fi)
- 63903-0303; FLIR E8
- 63908-0805; FLIR E8 (incl. Wi-Fi)
- 79301-0101; FLIR T530 14°
- 79302-0101; FLIR T530 24°
- 79304-0101; FLIR T530 24° + 14°
- 79306-0101; FLIR T530 24° + 14° & 42°
- 79305-0101; FLIR T530 24° + 42°
- 79303-0101; FLIR T530 42°
- 79307-0101; FLIR T530 42° + 14°
- 79301-0201; FLIR T540 14°
- 79302-0201; FLIR T540 24°
- 79304-0201; FLIR T540 24° + 14°



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 79306-0201; FLIR T540 24° + 14° & 42°
- 79305-0201; FLIR T540 24° + 42°
- 79303-0201; FLIR T540 42°
- 79307-0201; FLIR T540 42° + 14°
- 72001-0101; FLIR C2
- 72002-0202; FLIR C2 Educational Kit
- 72003-0303; FLIR C3 (incl. Wi-Fi)
- 72003-0404; FLIR C3 (incl. Wi-Fi) Educational Kit

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Website

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Customer support

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General description
<p>FLIR VideoReport makes reports including videos easy. You can create and edit your video clips taken with the FLIR GF series cameras. Build your movie with a few simple drag-and-drops. Delete bad shots and include only the best scenes.</p> <p>FLIR VideoReport is a software package specifically designed to provide an easy way to edit non-radiometric *.mp4 and *.avi video clips, taken with FLIR GF series cameras.</p>
<p>Key features:</p> <ul style="list-style-type: none"> • Create a longer video clip from several shorter ones, using a storyboard. • Rearrange the order of shorter video clips on a storyboard before you create a longer video clip. • Trim a video clip and make the portions that you don't want to display invisible. • Save any frame from a video clip as an image. • Add a title screen with custom text. • Add explanatory text to any video clip. • Play video clips at several different speeds. • Read out measurement values, stored as metadata from, an *.mp4 video clip. • Add digital photos to a video clip. • Add IR images to a video clip. • Add GPS information from the camera to a video clip. • Review file properties and information about the camera type, lens, and serial number. • Split a video clip into two parts. • Add markers (circle or arrow) as overlay graphics to any video clip. • Auto Update function

Download
<p>This software is a freeware. To download, click the following link:</p>
<p>http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=90</p>

Release notes	
Version	1.1 SP4
New features	<ul style="list-style-type: none"> • --- News in SP4: --- • New codec implemented. • Various bug fixes. • --- News in SP3: --- • New user interface design • New logo functionality • Various bug fixes

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Digital download, or • CD-ROM
Packaging, weight	0.106 kg (0.23 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)



FLIR VideoReport

P/N: T198585

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Shipping information	
EAN-13	7332558005385
UPC-12	845188005597
Country of origin	Sweden

System requirements	
Operating system	<ul style="list-style-type: none">• Microsoft Windows XP with Service Pack 3 (SP3), 32-bit• Microsoft Windows Vista with Service Pack 1 (SP1), 32-bit and 64-bit• Microsoft Windows Vista with Service Pack 2 (SP2), 32-bit and 64-bit• Microsoft Windows 7, 32-bit and 64-bit
Software note	Run Windows® Update before you install FLIR VideoReport
Hardware requirements	<ul style="list-style-type: none">• Personal computer with a 1 GHz 32-bit (x86) processor• 1 GB of RAM (minimum)• 40 GB hard disk, with at least 15 GB available hard disk space• DVD-ROM drive• Support for DirectX® 9 graphics with:<ul style="list-style-type: none">• - WDDM driver• - 128 MB of graphics memory (minimum)• - Pixel shader 2.0 in hardware• - 32 bits per pixel• Super VGA (1024 × 768) or higher-resolution monitor• Internet access• Audio output• Keyboard and Microsoft® mouse, or a compatible pointing device
Hardware note	Actual requirements and product functionality may vary based on your system configuration.

Compatible with the following products:

- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

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Website

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Customer support

<http://support.flir.com>



General description

This extender is intended for both fixed and non-fixed lens versions of the GF309 camera. It extends the existing 14.5° lens to achieve a better viewing angle when measuring the temperatures of furnace tubes through viewports.

It also features a heat shield to deflect the heat from the furnace. To achieve a high measurement accuracy, the external optics transmission will need to be entered into the camera firmware.

Note:

- Only firmware versions later than 2.x.x support the use of this lens extender.
- This product only applies to the 14.5° lens.
- The 14.5° lens is not included.

Imaging and optical data

Field of view (FOV)	14.5° × 10.9°
Minimum focus distance	1.2 m (3.94 ft.)
Focal length	38 mm (1.50 in.)
F-number	1.5
Lens note	For spectral range 3.8–4.05 μm

Physical data

Weight	0.51 kg (1.12 lb.) incl. lens caps, excl. camera-side bayonet mount
Size (L × D)	164.3 × 84 mm (6.5 × 3.3 in.), excl. lens caps

Shipping information

List of contents	<ul style="list-style-type: none"> • Furnace lens extender with bayonet mount • Bayonet mount (camera-side) • Heat shield • Heat shield support • Instruction • Lens cap, 2 ea. • Transport case
EAN-13	7332558003626
UPC-12	845188003845
Country of origin	Sweden

Compatible with the following products:

- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
<p>This extender is intended for both fixed and non-fixed lens versions of the GF309 camera. It extends the existing 24° lens to achieve a better viewing angle when measuring the temperatures of furnace tubes through viewports.</p> <p>It also features a heat shield to deflect the heat from the furnace. To achieve a high measurement accuracy, the external optics transmission will need to be entered into the camera firmware.</p>	
Note:	
<ul style="list-style-type: none"> • Only firmware versions later than 2.x.x support the use of this lens extender. • This product only applies to the 24° lens. • The 24° lens is not included. 	

Imaging and optical data	
Field of view (FOV)	24° × 18°
Minimum focus distance	0.6 m (1.97 ft.)
Focal length	23 mm (0.91 in.)
F-number	1.5
Lens note	For spectral range 3.8–4.05 μm

Physical data	
Weight	0.64 kg (1.41 lb.) incl. lens caps, excl. camera-side bayonet mount
Size (L × D)	132 × 84 mm (5.2 × 3.3 in.), excl. lens caps

Shipping information	
List of contents	<ul style="list-style-type: none"> • Furnace lens extender with bayonet mount • Bayonet mount (camera-side) • Heat shield • Heat shield support • Instruction • Lens cap, 2 ea. • Transport case
EAN-13	7332558003633
UPC-12	845188003852
Country of origin	Sweden

Compatible with the following products:

- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens

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Website

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Customer support

<http://support.flir.com>



General description	
Hard transport case for FLIR GF300-Series	

Physical data	
Weight	3.5 kg (7.7 lb.)
Size (L × W × H)	488 × 386 × 185 mm (19.2 × 15.2 × 7.3 in.)
Color	Black

Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558006443
UPC-12	845188006792
Country of origin	Sweden

Compatible with the following products:

- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

P/N: T910816ACC

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Website

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Customer support

<http://support.flir.com>



General description	
This cable is used to connect the infrared camera with an external display.	

Physical data	
Weight	213 g (7.5 oz.)
Cable length	1.5 m (4.9 ft.)
Connector	HDMI to DVI

Shipping information	
Packaging, type	Cardboard box
Packaging, weight	277 g (9.8 oz.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558006276
UPC-12	845188006624
Country of origin	Sweden

Compatible with the following products:

- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 74902-0101; FLIR GFx320 14.5° fixed lens
- 74902-0102; FLIR GFx320 24° fixed lens

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Website

<http://www.flir.com>

Customer support

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General description

This cable is used to connect the infrared camera with an external display.

Physical data

Weight	195 g (6.9 oz.)
Cable length	1.5 m (4.9 ft.)
Connector	HDMI to HDMI

Shipping information

Packaging, type	Cardboard box
Packaging, weight	251 g (8.9 oz.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558006313
UPC-12	845188006662
Country of origin	Sweden

Compatible with the following products:

- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 74902-0101; FLIR GFx320 14.5° fixed lens
- 74902-0102; FLIR GFx320 24° fixed lens

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
Heat shield for the FLIR GF309.	
Physical data	
Weight	0.50 kg (1.10 lb.)
Size (L x W x H)	195 x 243 x 195 mm (7.7 x 9.6 x 7.7 in.)
Shipping information	
List of contents	<ul style="list-style-type: none"> • Heat shield • Mounting support • Transport case
EAN-13	7332558009772
UPC-12	845188010317
Country of origin	Sweden

Compatible with the following products:

- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens

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Website

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Customer support

<http://support.flir.com>



General description

The 14.5° lens is a popular lens accessory and provides 1.7x magnification compared to the standard lens. Ideal for small or distant targets.

Licensing and classification

License information

Interchangeable lens version of the FLIR GF3XX series requires US Department of State License and will be subject to limitations on resale, except inside US. Allow a minimum of 90 days after application submittal for approval.

Imaging and optical data

Field of view (FOV)	14.5° × 10.9°
Minimum focus distance	0.5 m (1.64 ft.)
Focal length	38 mm (1.50 in.)
Lens identification	Automatic
F-number	1.5
Lens note	For spectral range 3.2–3.4 and 3.8–4.05 μm

Physical data

Weight	0.28 kg (0.62 lb.)
Size (L × D)	54 × 80 mm (2.13 × 3.15 in.)

Shipping information

List of contents	<ul style="list-style-type: none"> • Lens • Lens case
EAN-13	7332558005781
UPC-12	845188005993
Country of origin	Sweden

Compatible with the following products:

- 44401-0201; FLIR GF300 14.5°
- 44401-0202; FLIR GF300 24°
- 44601-0101; FLIR GF309 14.5°
- 44601-0102; FLIR GF309 24°
- 44401-0101; FLIR GF320 14.5°
- 44401-0102; FLIR GF320 24°

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Website

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Customer support

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General description

The 14.5° lens is a popular lens accessory and provides 1.7x magnification compared to the standard lens. Ideal for small or distant targets.

Licensing and classification

License information

Interchangeable lens version of the FLIR GF3XX series requires US Department of State License and will be subject to limitations on resale, except inside US. Allow a minimum of 90 days after application submittal for approval.

Imaging and optical data

Field of view (FOV)	14.5° × 10.8°
Minimum focus distance	0.5 m (1.64 ft.)
Focal length	38 mm (1.49 in.)
Lens identification	Automatic
F-number	1.5
Lens note	For spectral range 10–11 μm

Physical data

Size (L × D)	54 × 80 mm (2.13 × 3.15 in.)
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Shipping information

List of contents	<ul style="list-style-type: none"> • Lens • Lens case
EAN-13	7332558005767
UPC-12	845188005979
Country of origin	Sweden

Compatible with the following products:

- 59601-0101; FLIR GF304 14.5°
- 59601-0102; FLIR GF304 24°
- 44201-0101; FLIR GF306 14.5°
- 44201-0102; FLIR GF306 24°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
The 14.5° lens is a popular lens accessory and provides 1.7x magnification compared to the standard lens. Ideal for small or distant targets.	

Licensing and classification	
License information	Interchangeable lens version of the FLIR GF3XX series requires US Department of State License and will be subject to limitations on resale, except inside US. Allow a minimum of 90 days after application submittal for approval.

Imaging and optical data	
Field of view (FOV)	14.5° × 10.8°
Minimum focus distance	0.5 m (1.64 ft.)
Focal length	38 mm (1.49 in.)
Lens identification	Automatic
F-number	1.5
Lens note	For spectral range 3–5 μm

Physical data	
Weight	0.28 kg (0.62 lb.)
Size (L × D)	54 × 80 mm (2.13 × 3.15 in.)

Shipping information	
List of contents	<ul style="list-style-type: none"> • Lens • Lens case
EAN-13	7332558006214
UPC-12	845188006563
Country of origin	Sweden

Compatible with the following products:

- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59801-0102; FLIR GF346 24°

P/N: T197387

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General description	
The standard 24° lens is suitable for the majority of applications.	

Licensing and classification	
License information	Interchangeable lens version of the FLIR GF3XX series requires US Department of State License and will be subject to limitations on resale, except inside US. Allow a minimum of 90 days after application submittal for approval.

Imaging and optical data	
Field of view (FOV)	24° × 18°
Minimum focus distance	0.3 m (1.0 ft.)
Focal length	23 mm (0.89 in.)
Lens identification	Automatic
F-number	1.5
Lens note	For spectral range 3.2–3.4 and 3.8–4.05 μm

Physical data	
Weight	0.30 kg (0.67 lb.)
Size (L × D)	57 × 80 mm (2.24 × 3.15 in.)

Shipping information	
List of contents	<ul style="list-style-type: none"> • Lens • Lens case
EAN-13	7332558009017
UPC-12	845188009564
Country of origin	Sweden

Compatible with the following products:

- 44401-0201; FLIR GF300 14.5°
- 44401-0202; FLIR GF300 24°
- 44601-0101; FLIR GF309 14.5°
- 44601-0102; FLIR GF309 24°
- 44401-0101; FLIR GF320 14.5°
- 44401-0102; FLIR GF320 24°

P/N: T197386

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General description

The standard 24° lens is suitable for the majority of applications.

Licensing and classification

License information

Interchangeable lens version of the FLIR GF3XX series requires US Department of State License and will be subject to limitations on resale, except inside US. Allow a minimum of 90 days after application submittal for approval.

Imaging and optical data

Field of view (FOV)	24° × 18°
Minimum focus distance	0.3 m (1.0 ft.)
Focal length	23 mm (0.89 in.)
Lens identification	Automatic
F-number	1.5
Lens note	For spectral range 10–11 μm

Physical data

Weight	0.30 kg (0.67 lb.)
Size (L × D)	57 × 80 mm (2.24 × 3.15 in.)

Shipping information

List of contents	<ul style="list-style-type: none"> • Lens • Lens case
EAN-13	7332558005842
UPC-12	845188006051
Country of origin	Sweden

Compatible with the following products:

- 59601-0101; FLIR GF304 14.5°
- 59601-0102; FLIR GF304 24°
- 44201-0101; FLIR GF306 14.5°
- 44201-0102; FLIR GF306 24°

P/N: T198267

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General description

The standard 24° lens is suitable for the majority of applications.

Licensing and classification

License information

Interchangeable lens version of the FLIR GF3XX series requires US Department of State License and will be subject to limitations on resale, except inside US. Allow a minimum of 90 days after application submittal for approval.

Imaging and optical data

Field of view (FOV)	24° × 18°
Minimum focus distance	0.3 m (1.0 ft.)
Focal length	23 mm (0.89 in.)
Lens identification	Automatic
F-number	1.5
Lens note	For spectral range 3–5 μm

Physical data

Weight	0.30 kg (0.67 lb.)
Size (L × D)	57 × 80 mm (2.24 × 3.15 in.)

Shipping information

List of contents	<ul style="list-style-type: none"> • Lens • Lens cap • Lens case
EAN-13	7332558009031
UPC-12	845188009571
Country of origin	Sweden

Compatible with the following products:

- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59801-0102; FLIR GF346 24°

P/N: T197388

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Customer support

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General description

The 6° lens is a popular lens accessory and provides 4x magnification compared to the standard lens. Ideal for small or distant targets.

Licensing and classification

License information

Interchangeable lens version of the FLIR GF3XX series requires US Department of State License and will be subject to limitations on resale, except inside US. Allow a minimum of 90 days after application submittal for approval.

Imaging and optical data

Field of view (FOV)	6° × 4.5°
Minimum focus distance	2 m (6.6 ft.)
Focal length	92 mm (3.61 in.)
Lens identification	Automatic
F-number	1.5
Lens note	For spectral range 3.2–3.4 and 3.8–4.05 μm Does not fit together with the heat shield

Physical data

Weight	0.70 kg (1.54 lb.)
Size (L × D)	116 × 99 mm (4.57 × 3.90 in.)

Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Lens • Lens case
Packaging, weight	1.0 kg (2.2 lb.)
Packaging, size	172 × 131 × 133 mm (6.8 × 5.2 × 5.2 in.)
EAN-13	7332558005743
UPC-12	845188005955
Country of origin	Sweden

Compatible with the following products:

- 44401-0201; FLIR GF300 14.5°
- 44401-0202; FLIR GF300 24°
- 44601-0101; FLIR GF309 14.5°
- 44601-0102; FLIR GF309 24°
- 44401-0101; FLIR GF320 14.5°
- 44401-0102; FLIR GF320 24°
- 59801-0101; FLIR GF346 14.5°
- 59801-0102; FLIR GF346 24°

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Website

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General description	
High capacity battery for the IR camera.	
Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	7.2 V
Battery capacity	4.4 Ah at +20°C (+68°F)
Battery note	Approximate lithium content: 3.0 g
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 95% capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
Environmental data	
Battery storage temperature range	-40°C to +70°C (-40°F to +158°F)
Physical data	
Battery weight	0.24 kg (0.52 lb.)
Size (L × W × H)	141 × 47 × 28 mm (5.5 × 1.8 × 1.1 in.)
Shipping information	
Packaging, type	Cardboard box
Packaging, weight	0.324 kg (0.7 lb.)
Packaging, size	183 × 136 × 63 mm (7.2 × 5.4 × 2.5 in.)
EAN-13	7332558004364
UPC-12	845188004347
Country of origin	Sweden

Compatible with the following products:

- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens



Li-Ion Battery pack 7.4V 33Wh

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- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 65702-0102; FLIR GF343 24° Fixed lens
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

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General description	
SD Card for data storage (e.g. images)	
Data communication interfaces	
Memory card, size	8 GB
Physical data	
Weight	2 g (0.07 oz.)
Size (L x W x H)	32.0 x 24.0 x 2.1 mm (1.26 x 0.94 x 0.08 in.)
Shipping information	
Packaging, type	Cardboard box
List of contents	• SD Card
Packaging, weight	65 g (2.3 oz.)
Packaging, size	170 x 64 x 75 mm (6.69 x 2.52 x 2.95 in.)
EAN-13	7332558012628
UPC-12	845188013776
Country of origin	Sweden

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)



Memory card SDHC 8 GB

P/N: T911650ACC

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- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 74902-0101; FLIR GFx320 14.5° fixed lens
- 74902-0102; FLIR GFx320 24° fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)



Memory card SDHC 8 GB

P/N: T911650ACC

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- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

P/N: T199825

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Website

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General description

The Extended Warranty Package covers parts and labour for your IR camera, consumables not included.

FLIR Systems warrants its products to be free from defects caused by faulty material or poor workmanship, for a period specified above. **NO PRODUCT IS WARRANTED TO BE MERCHANTABILITY OR FIT FOR ANY PARTICULAR USE OR APPLICATION.** The warranty is void if the buyer damages the item due to misuse, abuse, modification, processing, or integration with other items. FLIR Systems' maximum liability under this warranty is limited to the obligation to replace or, at its sole option, to credit Buyer's account up to the purchase price.

Download

Contact info can be found at:

<http://support.flir.com>

Compatible with the following products:

- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
FLIR P/B/SC6xx and FLIR GF3xx series: Power supply, including multiple plugs, to charge the battery when it is inside or outside of the camera.	
FLIR T6xx and FLIR Exx series: Power supply, including multiple plugs, to charge the battery when it is inside the camera or in the battery charger.	
Power system	
AC operation	100–240 VAC, 50/60 Hz, 12 VDC out
Power	3000 mA at 12 VDC
Physical data	
Cable length	1.98 m (6.5 ft.)
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Power supply including cable • EU plug • UK plug • US plug • AU plug
Packaging, weight	0.324 kg (9.7 lb.)
Packaging, size	152 × 78 × 73 mm (6.0 × 3.1 × 2.9 in.)
EAN-13	7332558003794 4743254001763 (Estonia plant)
UPC-12	845188002145
Country of origin	Sweden

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°



Power supply, incl. multi plugs

P/N: T910814

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Website

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Customer support

<http://support.flir.com>

- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens



Power supply, incl. multi plugs

P/N: T910814

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 74902-0101; FLIR GFx320 14.5° fixed lens
- 74902-0102; FLIR GFx320 24° fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

P/N: T198566

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Website

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Customer support

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General description	
<p>The ThermoVision LabVIEW Toolkit is a set of VIs (virtual instruments) for cameras that support alarms, measurement functions, and I/O functionality.</p> <p>Through LabVIEW, you can use these VIs as sub-VIs to manage communications with a FLIR IR camera in digital mode.</p> <p>You can also generate true temperature images from images acquired through LabVIEW, and can use the LabVIEW IR Measurement and Display tools to analyze the temperatures of imaged objects.</p>	
<p>Key features:</p> <ul style="list-style-type: none"> • Set up communications between LabVIEW VI and a FLIR IR camera • Capture and collect images via FireWire or Ethernet interfaces • Adjust the camera configuration parameters and focus as you view a live image • Control the camera calibration • Send any other camera command to the camera • Generate a true temperature image from a 16-bit image acquired using the camera's FireWire or Ethernet interfaces • Close communications to the IR camera 	
<p>Users with licenses for the previous version can download a free upgrade via the following link: http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=63</p>	
<p>Note: Only supports National Instrument 32-bit Labview</p>	

Release notes	
Version	3.3
New features	<ul style="list-style-type: none"> • Windows 7 32- and 64-bit support • Support for FLIR A615 and FLIR SC6X5 (including windowing) • Support for windowing in FLIR SC660 • Various bug fixes • New example VIs

Shipping information	
Packaging, type	Cardboard box
Packaging, weight	0.133 kg (0.3 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005187
UPC-12	845188005399
Country of origin	Sweden

Compatible with the following products:

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)

P/N: T198566

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

P/N: T198567

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
ThermoVision™ System Developers Kit	
Key features:	
<ul style="list-style-type: none"> • Supports communication and broadcasting via FireWire™, Ethernet, and USB interfaces. • Gives the user full control of the camera. • Allows the user to set alarm conditions and measurement functions in the camera • Allows the user to define I/O functionality (FLIR A series). • Based on ActiveX technology. • Supports acquisition of images through FireWire™, Ethernet, and USB interfaces. • Reads from and writes to file in FLIR Systems' proprietary file format and writes to files in FLIR Systems' open floating point format (*.fpf). • Converts 16-bit absolute pixels into temperature pixels and several intermediate types of pixels formats, for maximum user flexibility. Applies to all camera models with temperature measurement capabilities. • Allows 16-bit temperature linear outputs from FLIR A series cameras. • Includes method that allows using individual emissivity value correction on any single pixel or condensed measuring value – e.g. average, minimum etc. • Supports conditional recording to file through FireWire™, Ethernet, and USB interfaces. 	
Users with licenses for the previous version can download a free upgrade via the following link: http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=62	

Release notes	
Version	ThermoVision 2.6 SP2
New features	<ul style="list-style-type: none"> • --- News in SP2: • Support for FLIR GF3XX series • Support for windowing in FLIR A615 and FLIR SC6x5 • Support for windowing in FLIR SC6x0 • Various bug fixes

Shipping information	
Packaging, type	Cardboard box
Packaging, weight	0.132 kg (0.3 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005293
UPC-12	845188005504
Country of origin	Sweden

Compatible with the following products:

- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310



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Website

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Customer support

<http://support.flir.com>

- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

P/N: 1910423

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
This cable is used to connect the infrared camera with a computer, using the USB protocol.	

Physical data	
Weight	60 g (2.1 oz.)
Cable length	1.8 m (5.9 ft.)
Connector	Standard USB-A to USB Mini-B

Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558003428
UPC-12	845188002176
Country of origin	Sweden

Compatible with the following products:

- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case



USB cable Std A <-> Mini-B

P/N: 1910423

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 74902-0101; FLIR GFx320 14.5° fixed lens
- 74902-0102; FLIR GFx320 24° fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72203-0411; FLIR K33
- 72203-0511; FLIR K53
- 72201-0106; FLIR K45
- 72201-0206; FLIR K55
- 72202-0303; FLIR K65

P/N: T951387

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description
Wi-Fi USB adapter for wireless connection between the infrared camera and external equipment.
NOTE: Only for use in markets accepting CE and FCC regulations for wireless equipment.

Shipping information	
Packaging, type	Cardboard box
List of contents	• Wi-Fi USB micro adapter
Packaging, weight	0.062 kg (0.14 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005859
UPC-12	845188006068
Country of origin	Sweden

Compatible with the following products:

- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

P/N: T199183ACC

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
High capacity battery for the FLIR GFx3xx and FLIR GF3xx series.	
Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	7.2 V
Battery capacity	4.4 Ah at +20°C (+68°F)
Battery note	Approximate lithium content: 3.0 g
Battery charging	2-bay charger or AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
Charging time	2.5 h to 95% capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
Environmental data	
Battery storage temperature range	–40°C to +70°C (–40°F to +158°F)
Physical data	
Battery weight	0.22 kg (0.48 lb.)
Size (L × W × H)	140 × 40 × 27 mm (5.5 × 1.6 × 1.1 in.)
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> Battery Cardboard box
Packaging, weight	
Packaging, size	170 × 135 × 60 mm (6.7 × 5.3 × 2.5 in.)
EAN-13	7332558012895
UPC-12	845188014452
Country of origin	Sweden

Compatible with the following products:

- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°



Battery

P/N: T199183ACC

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 65702-0102; FLIR GF343 24° Fixed lens
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 74902-0101; FLIR GFx320 14.5° fixed lens
- 74902-0102; FLIR GFx320 24° fixed lens

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Accessories for GfX3xx series

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P/N: T911309ACC

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
Screwdriver TX20.	
Physical data	
Weight	0.043 kg (0.099 lb.)
Size (L x D)	110 x 35 mm (4.3 x 1.37 in.)
Material	<ul style="list-style-type: none"> • Chrome vanadium alloy steel • Polymer
Color	Black
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Screwdriver TX20 • Cardboard box
Packaging, weight	0.1 kg (0.22 lb.)
Packaging, size	170 x 70 x 65 mm (6.7 x 2.8 x 2.6 in.)
EAN-13	4743254002166
UPC-12	845188011680
Country of origin	Estonia

Compatible with the following products:

- 74902-0101; FLIR GFx320 14.5° fixed lens
- 74902-0102; FLIR GFx320 24° fixed lens
- 72202-0303; FLIR K65

P/N: T197692

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
Stand-alone 2-bay battery charger, including power supply with multi plugs.	
Note: This product replaces T197563 and 1196210EU/UK/US	

Power system	
AC operation	100–240 VAC, 50/60 Hz, 12 VDC out
Power	3000 mA at 12 VDC

Physical data	
Battery charger size (L × W × H)	158 × 122 × 25 mm (6.2 × 4.8 × 1.0 in.)
Cable length	1.98 m (6.5 ft.)

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> Stand-alone 2-bay battery charger Power supply including cable EU plug UK plug US plug AU plug
Packaging, weight	0.60 kg (1.3 lb.)
Packaging, size	243 × 165 × 82 mm (9.6 × 6.5 × 3.2 in.)
EAN-13	7332558003787
UPC-12	845188004002
Country of origin	Sweden

Compatible with the following products:

- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°



Battery charger, incl. power supply with multi plugs

P/N: T197692

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 74902-0101; FLIR GFx320 14.5° fixed lens
- 74902-0102; FLIR GFx320 24° fixed lens

P/N: T910814

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
FLIR P/B/SC6xx and FLIR GF3xx series: Power supply, including multiple plugs, to charge the battery when it is inside or outside of the camera.	
FLIR T6xx and FLIR Exx series: Power supply, including multiple plugs, to charge the battery when it is inside the camera or in the battery charger.	
Power system	
AC operation	100–240 VAC, 50/60 Hz, 12 VDC out
Power	3000 mA at 12 VDC
Physical data	
Cable length	1.98 m (6.5 ft.)
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Power supply including cable • EU plug • UK plug • US plug • AU plug
Packaging, weight	0.324 kg (9.7 lb.)
Packaging, size	152 × 78 × 73 mm (6.0 × 3.1 × 2.9 in.)
EAN-13	7332558003794 4743254001763 (Estonia plant)
UPC-12	845188002145
Country of origin	Sweden

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°

P/N: T910814

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Website

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Customer support

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- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens



Power supply, incl. multi plugs

P/N: T910814

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 74902-0101; FLIR GFx320 14.5° fixed lens
- 74902-0102; FLIR GFx320 24° fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

P/N: T911650ACC

Revision

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General description	
SD Card for data storage (e.g. images)	
Data communication interfaces	
Memory card, size	8 GB
Physical data	
Weight	2 g (0.07 oz.)
Size (L x W x H)	32.0 x 24.0 x 2.1 mm (1.26 x 0.94 x 0.08 in.)
Shipping information	
Packaging, type	Cardboard box
List of contents	• SD Card
Packaging, weight	65 g (2.3 oz.)
Packaging, size	170 x 64 x 75 mm (6.69 x 2.52 x 2.95 in.)
EAN-13	7332558012628
UPC-12	845188013776
Country of origin	Sweden

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)



Memory card SDHC 8 GB

P/N: T911650ACC

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 74902-0101; FLIR GFx320 14.5° fixed lens
- 74902-0102; FLIR GFx320 24° fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)



Memory card SDHC 8 GB

P/N: T911650ACC

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

P/N: 1910423

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Website

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Customer support

<http://support.flir.com>



General description	
This cable is used to connect the infrared camera with a computer, using the USB protocol.	

Physical data	
Weight	60 g (2.1 oz.)
Cable length	1.8 m (5.9 ft.)
Connector	Standard USB-A to USB Mini-B

Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558003428
UPC-12	845188002176
Country of origin	Sweden

Compatible with the following products:

- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case



USB cable Std A <-> Mini-B

P/N: 1910423

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 74902-0101; FLIR GFx320 14.5° fixed lens
- 74902-0102; FLIR GFx320 24° fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72203-0411; FLIR K33
- 72203-0511; FLIR K53
- 72201-0106; FLIR K45
- 72201-0206; FLIR K55
- 72202-0303; FLIR K65

P/N: T198509

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
This cable is used to power the infrared camera from the cigarette lighter socket in a car.	
Note: This is the same product as p/n 1196497.	

Physical data	
Cable length	1.2 m (3.9 ft.)

Shipping information	
Packaging, type	Cardboard box
Packaging, weight	0.125 kg (0.28 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558004340 4743254001435 (Estonia plant)
UPC-12	845188004361
Country of origin	Sweden

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)



Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.

P/N: T198509

Revision

42932

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2017-05-30 15:32 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 74902-0101; FLIR GFx320 14.5° fixed lens
- 74902-0102; FLIR GFx320 24° fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72203-0411; FLIR K33



Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.

P/N: T198509

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 72203-0511; FLIR K53
- 72201-0106; FLIR K45
- 72201-0206; FLIR K55
- 72202-0303; FLIR K65

P/N: T910815ACC

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

This cable is used to connect the infrared camera with an external display.

Physical data

Weight	195 g (6.9 oz.)
Cable length	1.5 m (4.9 ft.)
Connector	HDMI to HDMI

Shipping information

Packaging, type	Cardboard box
Packaging, weight	251 g (8.9 oz.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558006313
UPC-12	845188006662
Country of origin	Sweden

Compatible with the following products:

- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 74902-0101; FLIR GFx320 14.5° fixed lens
- 74902-0102; FLIR GFx320 24° fixed lens

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>**General description**

This cable is used to connect the infrared camera with an external display.

Physical data

Weight	213 g (7.5 oz.)
Cable length	1.5 m (4.9 ft.)
Connector	HDMI to DVI

Shipping information

Packaging, type	Cardboard box
Packaging, weight	277 g (9.8 oz.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558006276
UPC-12	845188006624
Country of origin	Sweden

Compatible with the following products:

- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 74902-0101; FLIR GFx320 14.5° fixed lens
- 74902-0102; FLIR GFx320 24° fixed lens

P/N: T129739ACC

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>**General description**

Lens cap for the FLIR GFx3xx series.

Physical data

Weight	24 g (0.85 oz.)
Size	Diameter 70 mm x 28 mm (2.8 x 1.1 in.)
Material	Antistatic silicone
Color	Black

Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Lens cap• Cardboard box
Packaging, weight	0.106 kg(0.23 lb.)
Packaging, size	170 x 135 x 60 mm (6.7 x 5.3 x 2.5 in.)
EAN-13	7332558012857
UPC-12	845188014407
Country of origin	Sweden

Compatible with the following products:

- 74902-0101; FLIR GFx320 14.5° fixed lens
- 74902-0102; FLIR GFx320 24° fixed lens

P/N: T129867ACC

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
Lens cap strap for the FLIR GFx3xx series.	

Physical data	
Weight	1 g (0.035 oz.)
Size (L x D)	
Material	Antistatic webbing
Color	Black

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Lens cap strap • Cardboard box
Packaging, weight	0.061 kg (0.13 lb.)
Packaging, size	165 × 60 × 70 mm (6.5 × 2.4 × 2.8 in.)
EAN-13	7332558012864
UPC-12	845188014414
Country of origin	Sweden

Compatible with the following products:

- 74902-0101; FLIR GFx320 14.5° fixed lens
- 74902-0102; FLIR GFx320 24° fixed lens

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>


General description

Neck strap for the FLIR GFx3xx series.

Physical data

Weight	
Size (L x D)	120 cm (47.2 in.) x 55 mm (2.2 in.) at widest
Material	Antistatic webbing, leather
Color	Black

Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Neck strap • Cardboard box
Packaging, weight	0.160 kg (0.35 lb.)
Packaging, size	165 × 60 × 70 mm (6.5 × 2.4 × 2.8 in.)
EAN-13	7332558012871
UPC-12	845188014421
Country of origin	Sweden

Compatible with the following products:

- 74902-0101; FLIR GFx320 14.5° fixed lens
- 74902-0102; FLIR GFx320 24° fixed lens

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

General description	
Hand strap for the FLIR GFx3xx series.	
Physical data	
Weight	19 g (0.67 oz.)
Size (L x W x H)	90 x 45 x 20 mm (3.5 x 1.8 x 0.8 in.)
Material	Antistatic webbing, leather.
Color	Black
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">Hand strapCardboard box
Packaging, weight	0.080 kg (0.2 lb.)
Packaging, size	165 x 60 x 70 mm (6.5 x 2.4 x 2.8 in.)
EAN-13	7332558012840
UPC-12	845188014391
Country of origin	Sweden

Compatible with the following products:

- 74902-0101; FLIR GFx320 14.5° fixed lens
- 74902-0102; FLIR GFx320 24° fixed lens

Accessories for KFx series

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P/N: T129748ACC

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

This cable is used to provide power to and composite video signals from FLIR KFx series cameras.

Physical data

Cable length	2.0 m (6.6 ft.)
Connector	<ul style="list-style-type: none"> • Camera side: D38999/26FB35SN • Monitor side: 75 Ohm BNC connector, male

Shipping information

Packaging, type	Cardboard box
List of contents	Cable
Packaging, size	220 × 160 × 75 mm (8.7 × 6.3 × 3.0 in.)
EAN-13	7332558012284
UPC-12	845188013394
Country of origin	Sweden

Compatible with the following products:

- 70901-0101; FLIR KF6, NTSC, Top Mounted, F
- 70901-0201; FLIR KF6, NTSC, Top Mounted, C
- 70901-0301; FLIR KF6, NTSC, Bottom Mounted, F
- 70901-0401; FLIR KF6, NTSC, Bottom Mounted, C
- 70901-0501; FLIR KF6, PAL, Top Mounted, F
- 70901-0601; FLIR KF6, PAL, Top Mounted, C
- 70901-0701; FLIR KF6, PAL, Bottom Mounted, F
- 70901-0801; FLIR KF6, PAL, Bottom Mounted, C

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Accessories for Kx series

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Battery charger, incl. power supply with multi plugs

P/N: T199128

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
Battery charger, incl. power supply with multi plugs for FLIR Kx series.	

Physical data	
Weight	0.28 kg (0.62 lb.)
Size (L x W x H)	<ul style="list-style-type: none"> Charger with battery: 137.6 x 64.5 x 57.5 mm (5.4 x 2.5 x 2.3 in.) Charger without battery: 109.3 x 64.2 x 57.5 mm (4.3 x 2.5 x 2.3 in.)

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> Battery charger, incl. power supply with multi plugs
Packaging, weight	0.39 kg (0.86 lb.)
Packaging, size	170 x 130 x 78 mm (6.7 x 5.1 x 3.1 in.)
EAN-13	7332558010938
UPC-12	845188011758
Country of origin	

Compatible with the following products:

- 73701-0101; FLIR K2

P/N: T198532

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

This cable is used to power the infrared camera from the 12 V socket in a car.

Power system

Voltage	Input: 12/24 V Output: 5 V
---------	-------------------------------

Physical data

Cable length	1 m (3.3 ft.)
Color	Black

Shipping information

Packaging, weight	0.175 kg
Packaging, size	170 × 75 × 65 mm
EAN-13	7332558004876 4743254001060 (Estonia plant)
UPC-12	845188004910
Country of origin	Estonia

Compatible with the following products:

- 63901-0101; FLIR E4
- 63906-0604; FLIR E4 (incl. Wi-Fi)
- 63905-0501; FLIR E5
- 63909-0904; FLIR E5 (incl. Wi-Fi)
- 63902-0202; FLIR E6
- 63907-0704; FLIR E6 (incl. Wi-Fi)
- 63903-0303; FLIR E8
- 63908-0805; FLIR E8 (incl. Wi-Fi)
- 73701-0101; FLIR K2
- 72001-0101; FLIR C2
- 72002-0202; FLIR C2 Educational Kit
- 72003-0303; FLIR C3 (incl. Wi-Fi)
- 72003-0404; FLIR C3 (incl. Wi-Fi) Educational Kit

P/N: T199357

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>**General description**

Hard transport case for FLIR Kx series.

Physical data

Weight	1.5 kg (3.3 lb.)
Size (L x W x H)	375 x 290 x 150 mm (14.7 x 11.4 x 5.9 in.)
Color	Black

Shipping information

EAN-13	4743254002395
UPC-12	845188012588
Country of origin	Estonia

Compatible with the following products:

- 73701-0101; FLIR K2

P/N: T199414ACC

Revision

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2017-10-04 14:53 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Power system	
Charging time	2 hours from fully depleted battery
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power, connector type	<ul style="list-style-type: none"> • 2-pole screw terminal (on incoming cable to DC-DC converter) • USB-A (on outgoing cable from DC-DC converter) • USB Micro-B (on in-truck charger)
DC operation	<ul style="list-style-type: none"> • 8–50 V DC in to DC-DC converter • 5V DC, 3 A max. from DC-DC converter

Environmental data	
Operating temperature range	–40°C to +85°C (–40°F to +185°F)
Storage temperature range	–40°C to +85°C (–40°F to +185°F)
Relative humidity	Operational for non-condensing humidity between 5% and 95%.
EMC	<ul style="list-style-type: none"> • EN61000-6-3, Emission • EN61000-6-2, Immunity • FCC47CFR part 15 class B • NFPA requirements • ISO 7637-2 Road vehicles - Electrical disturbances from conduction and coupling Part 2: Electrical transient conduction along supply lines only
Bump	Operational after exposed to: 5 pulses/ in each axis/ direction (30 total) of 30g 11ms half sine profile
Vibration	Operational after exposed to: 4, 3g rms random profile. 8 hours in each axis.

Physical data	
Color	Black

Shipping information	
Packaging, type	Card board box
List of contents	<ul style="list-style-type: none"> • In-truck charger • Screws and rivets kit • USB cable with removal prevention Velcro strap • Converter, screw terminal to USB • Documentation
EAN-13	4743254002579



In-truck charger

P/N: T199414ACC

Revision

45610

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2017-10-04 14:53 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Shipping information

UPC-12

845188013363

Country of origin

Estonia

Compatible with the following products:

- 73701-0101; FLIR K2

P/N: T199130

Revision

42932

Last modified

2017-05-30 15:32 UTC+1

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Website

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Customer support

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General description	
Lanyard strap for FLIR Kx series.	
Physical data	
Weight	0.022 kg (0.048 lb.)
Length	<ul style="list-style-type: none"> Length incl. strap: 125 mm (4.9 in.) Length excl. strap: 80 mm (3.1 in.)
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> Lanyard strap
Packaging, weight	0.084 kg (0.19 lb.)
Packaging, size	70 × 130 × 78 mm (6.7 × 5.1 × 3.1 in.)
EAN-13	7332558010945
UPC-12	845188011765
Country of origin	

Compatible with the following products:

- 73701-0101; FLIR K2

P/N: T199423ACC

Revision

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Website

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Customer support

<http://support.flir.com>



General description	
Battery pack for FLIR Kx series	

Physical data	
Weight	0.14 kg (0.30 lb.)
Size (L x W x H)	122.5 x 57.1 x 43.0 mm (4.8 x 2.2 x 1.7 in.)

Shipping information	
Packaging, type	Cardboard box
List of contents	• Battery pack
Packaging, weight	0.28 kg (0.62 lb.)
Packaging, size	170 x 130 x 78 mm (6.7 x 5.1 x 3.1 in.)
EAN-13	4743254002562
UPC-12	845188012939
Country of origin	Estonia

Compatible with the following products:

- 73701-0101; FLIR K2

P/N: T127722ACC

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Website

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Customer support

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General description	
Retractable lanyard for FLIR Kxx series	

Physical data	
Weight	0.120 kg (0.3 lb.)
Size (L x W x H)	120 x 60 x 40 (4.7 x 2.4 x 1.6 in.)
Color	Black

Shipping information	
List of contents	<ul style="list-style-type: none"> Retractable lanyard Cardboard box
Packaging, weight	0.17 kg (0.37 lb.)
Packaging, size	170 x 65 x 75 mm (6.7 x 2.6 x 3.0 in.)
EAN-13	7332558009727 4743254001466 (Estonia plant)
UPC-12	845188006518
Country of origin	Estonia

Compatible with the following products:

- 72203-0411; FLIR K33
- 72203-0511; FLIR K53
- 72201-0106; FLIR K45
- 72201-0206; FLIR K55
- 72202-0303; FLIR K65
- 73701-0101; FLIR K2

P/N: T198533

Revision

42932

Last modified

2017-05-30 15:32 UTC+1

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Website

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Customer support

<http://support.flir.com>



General description

This cable is used to connect the infrared camera with a computer, using the USB protocol.

Physical data

Weight	60 g (2.1 oz.)
Cable length	1.8 m (5.9 ft.)
Connector	Standard USB-A to USB Micro-B

Shipping information

Packaging, weight	0.100 kg
Packaging, size	170 × 75 × 65 mm
EAN-13	7332558004869 4743254001077 (Estonia plant)
UPC-12	845188004927
Country of origin	Estonia

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 63901-0101; FLIR E4
- 63906-0604; FLIR E4 (incl. Wi-Fi)
- 63905-0501; FLIR E5
- 63909-0904; FLIR E5 (incl. Wi-Fi)
- 63902-0202; FLIR E6
- 63907-0704; FLIR E6 (incl. Wi-Fi)
- 63903-0303; FLIR E8
- 63908-0805; FLIR E8 (incl. Wi-Fi)
- 73701-0101; FLIR K2
- 72001-0101; FLIR C2
- 72002-0202; FLIR C2 Educational Kit
- 72003-0303; FLIR C3 (incl. Wi-Fi)
- 72003-0404; FLIR C3 (incl. Wi-Fi) Educational Kit

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Accessories for Kx3 series

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P/N: T198125

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42932

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Website

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Customer support

<http://support.flir.com>



General description	
Stand-alone 2-bay battery charger, including power supply with multi plugs.	
Power system	
AC operation	100–240 VAC, 50/60 Hz, 12 VDC out
Power	3000 mA at 12 VDC
Physical data	
Size (L × W × H)	133 × 86 × 51 mm (5.3 × 3.4 × 2.0 in.)
Cable length	1.98 m (6.5 ft.)
Shipping information	
List of contents	<ul style="list-style-type: none"> • Stand-alone 2-bay battery charger • Power supply including cable • EU plug • UK plug • US plug • AU plug
Packaging, weight	0.65 kg
Packaging, size	245 × 165 × 80 mm
EAN-13	7332558003497 4743254000513 (Estonia plant)
UPC-12	845188003487
Country of origin	Estonia

Compatible with the following products:

- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72203-0411; FLIR K33
- 72203-0511; FLIR K53
- 72201-0106; FLIR K45
- 72201-0206; FLIR K55
- 72202-0303; FLIR K65

P/N: T199368ACC

Revision

42932

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Website

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Customer support

<http://support.flir.com>



General description	
High capacity battery for the IR camera.	
Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	3.6 V
Battery capacity	4.4 Ah, at +20°C (+68°F)
Battery note	Approximate lithium content: 1.32 g
Charging temperature	0°C to +45°C (+32°F to +113°F)
Environmental data	
Operating temperature range	-20°C to +85°C (-4°F to +185°F)
Physical data	
Weight	0.15 kg (0.3 lb.)
Size (L x W x H)	110 x 60x 45 mm (4.3 x 2.4 x 1.8 in.)
Shipping information	
List of contents	<ul style="list-style-type: none"> Battery Cardboard box
Packaging, weight	0.25 kg (0.55 lb.)
Packaging, size	185 x 140 x 65 mm (7.3 x 5.5 x 2.6 in.)
EAN-13	4743254002555
UPC-12	845188012861
Country of origin	Estonia

Compatible with the following products:

- 72203-0411; FLIR K33
- 72203-0511; FLIR K53
- 72201-0106; FLIR K45
- 72201-0206; FLIR K55
- 72202-0303; FLIR K65

P/N: T129915ACC

Revision

46559

Last modified

2017-11-23 12:37 UTC+1

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

General description	
Carabiner strap for FLIR Kxx series. Intended to be used between the camera and the retractable lanyard.	

Physical data	
Weight	0.001 kg (0.002 lb.)
Size (L x W x H)	40 x 10 x 3 mm (1.6 x 0.4 x 0.1 in.)
Material	Textile
Color	Black

Shipping information	
Packaging, type	Cardboard box
List of contents	Carabiner strap
Packaging, weight	0.055 kg (0.12 lb.)
Packaging, size	155 x 59 x 69 mm (6.1 x 2.3 x 2.7 in.)
EAN-13	4743254002647
UPC-12	845188013790
Country of origin	Estonia

Compatible with the following products:

- 72203-0411; FLIR K33
- 72203-0511; FLIR K53
- 72203-0414; FLIR K33 (camera only)
- 72203-0514; FLIR K53 (camera only)
- 72201-0106; FLIR K45
- 72201-0206; FLIR K55
- 72202-0303; FLIR K65
- 72201-0112; FLIR K45 (camera only)
- 72201-0212; FLIR K55 (camera only)
- 72202-0313; FLIR K65 (camera only)

P/N: T198509

Revision

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Website

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Customer support

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General description	
This cable is used to power the infrared camera from the cigarette lighter socket in a car.	
Note: This is the same product as p/n 1196497.	

Physical data	
Cable length	1.2 m (3.9 ft.)

Shipping information	
Packaging, type	Cardboard box
Packaging, weight	0.125 kg (0.28 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558004340 4743254001435 (Estonia plant)
UPC-12	845188004361
Country of origin	Sweden

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)



Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.

P/N: T198509

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Website

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Customer support

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- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 74902-0101; FLIR GFx320 14.5° fixed lens
- 74902-0102; FLIR GFx320 24° fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72203-0411; FLIR K33



Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.

P/N: T198509

Revision

42932

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 72203-0511; FLIR K53
- 72201-0106; FLIR K45
- 72201-0206; FLIR K55
- 72202-0303; FLIR K65

P/N: T198322ACC

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Power system	
Charging time	< 4 hours
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power, connector type	Screw terminal or HRS_UK60-3PT
DC operation	12/ 24 V DCnominal (11.1 - 28.0 V DC)
Power	Max 36 Watts or 3000 mA at 12 VDC (5 amps fuse)

Environmental data	
Operating temperature range	-40°C to +85°C (-40°F to +185°F)
Storage temperature range	-40°C to +85°C (-40°F to +185°F)
Relative humidity	Operational for non-condensing humidity between 5% and 95%.
EMC	<ul style="list-style-type: none"> EN61000-6-3 Emission EN61000-6-2 Immunity FCC47CFR part 15 class B NFPA requirements ISO 7637-2 Road vehicles - Electrical disturbances from conduction and coupling Part 2: Electrical transient conduction along supply lines only
Encapsulation	IP 20
Bump	Operational after exposed to: 5 pulses/ in each axis/ direction (30 total) of 30g 11ms half sine profile
Vibration	Operational after exposed to: 4, 3g rms random profile. 8 hours in each axis.

Physical data	
Weight	1.050 kg
Size (L x W x H)	380 mm x 180 mm x 153 mm (15 in. x 7.1 in. x 6 in.)
Material	PC / ABS
Color	Grey / black

Shipping information	
List of contents	<ul style="list-style-type: none"> Charger Documentation Card board box
Packaging, weight	3.2 kg (7.0 lb.)
Packaging, size	435 x 245 x 167 mm (17.1 x 9.6 x 6.6 in.)
EAN-13	4743254002159



In-truck charger

P/N: T198322ACC

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Shipping information

UPC-12

845188011673

Country of origin

Estonia

Compatible with the following products:

- 72203-0411; FLIR K33
- 72203-0511; FLIR K53
- 72201-0106; FLIR K45
- 72201-0206; FLIR K55
- 72202-0303; FLIR K65

P/N: T198416ACC

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Website

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Customer support

<http://support.flir.com>



General description	
Lanyard strap for FLIR Kxx series.	

Physical data	
Weight	0.01 kg (0.22 lb.)
Size (L x W x H)	400 x 20 x 5 mm (15.7 x 0.8 x 0.2)
Material	Zink
Color	Black

Shipping information	
Packaging, type	Cardboard box
List of contents	• Lanyard strap
Packaging, weight	0.063 kg (0.14 lb.)
Packaging, size	170 x 65 x 75 mm (6.7 x 2.6 x 3.0 in.)
EAN-13	7332558009734 4743254001480 (Estonia plant)
UPC-12	845188006549
Country of origin	Estonia

Compatible with the following products:

- 72203-0411; FLIR K33
- 72203-0511; FLIR K53
- 72201-0106; FLIR K45
- 72201-0206; FLIR K55
- 72202-0303; FLIR K65

P/N: T198310ACC

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
High capacity battery for the IR camera.	
Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	3.6 V
Battery capacity	4.4 Ah, at +20°C (+68°F)
Battery note	Approximate lithium content: 1.32 g
Charging temperature	0°C to +45°C (+32°F to +113°F)
Environmental data	
Operating temperature range	-20°C to +85°C (-4°F to +185°F)
Physical data	
Weight	0.15 kg (0.3 lb.)
Size (L x W x H)	110 x 60x 45 mm (4.3 x 2.4 x 1.8 in.)
Shipping information	
List of contents	<ul style="list-style-type: none"> Battery Cardboard box
Packaging, weight	0.25 kg (0.55 lb.)
Packaging, size	185 x 140 x 65 mm (7.3 x 5.5 x 2.6 in.)
EAN-13	7332558009246 4743254001473 (Estonia plant)
UPC-12	845188006532
Country of origin	Estonia

Compatible with the following products:

- 72203-0411; FLIR K33
- 72203-0511; FLIR K53
- 72201-0106; FLIR K45
- 72201-0206; FLIR K55
- 72202-0303; FLIR K65

P/N: T127724ACC

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
Neck strap for the Kxx-series.	
Physical data	
Weight	0.075 kg (0.2 lb.)
Size (L × W × H)	Adjustable 1200 to 2000 × 30 × 12 mm (47.2 to 78.7 × 1.2 × 0.5 in.)
Material	Kevlar
Color	Black
Shipping information	
List of contents	<ul style="list-style-type: none"> • Neck strap • Cardboard box
Packaging, weight	0.12 kg (0.27 lb.)
Packaging, size	170 × 65 × 75 mm (6.7 × 2.6 × 3.0 in.)
EAN-13	7332558009710 4743254001299 (Estonia plant)
UPC-12	845188005733
Country of origin	Estonia

Compatible with the following products:

- 72203-0411; FLIR K33
- 72203-0511; FLIR K53
- 72201-0106; FLIR K45
- 72201-0206; FLIR K55
- 72202-0303; FLIR K65

P/N: T127722ACC

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Website

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Customer support

<http://support.flir.com>



General description	
Retractable lanyard for FLIR Kxx series	

Physical data	
Weight	0.120 kg (0.3 lb.)
Size (L x W x H)	120 x 60 x 40 (4.7 x 2.4 x 1.6 in.)
Color	Black

Shipping information	
List of contents	<ul style="list-style-type: none"> Retractable lanyard Cardboard box
Packaging, weight	0.17 kg (0.37 lb.)
Packaging, size	170 x 65 x 75 mm (6.7 x 2.6 x 3.0 in.)
EAN-13	7332558009727 4743254001466 (Estonia plant)
UPC-12	845188006518
Country of origin	Estonia

Compatible with the following products:

- 72203-0411; FLIR K33
- 72203-0511; FLIR K53
- 72201-0106; FLIR K45
- 72201-0206; FLIR K55
- 72202-0303; FLIR K65
- 73701-0101; FLIR K2

P/N: T198441ACC

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Website

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Customer support

<http://support.flir.com>



General description

Rugged, watertight plastic transport case for FLIR Kxx series. Holds all items neatly and securely. The case can be locked with padlocks and features a membrane to prevent pressure build-up in airplane cargo holds.

Physical data

Weight	2.65 kg (5.84 lb.)
Size (L x W x H)	484 x 345 x 178 mm (19.1 x 13.6 x 7.0 in.)
Material	PP with Rubber Blend (Polypropylene)
Color	Black

Shipping information

Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	4743254001855
UPC-12	845188010164
Country of origin	Estonia

Compatible with the following products:

- 72203-0411; FLIR K33
- 72203-0511; FLIR K53
- 72201-0106; FLIR K45
- 72201-0206; FLIR K55
- 72202-0303; FLIR K65

P/N: T198457ACC

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Website

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Customer support

<http://support.flir.com>



General description	
Tripod adapter for FLIR Kxx series. Necessary accessory to be able to mount the camera on a tripod.	

Physical data	
Weight	0.13 kg (0.3 lb.)
Size (L x W x H)	66 x 59 x 23 mm (2.6 x 2.3 x 0.9 in.)
Material	Zink
Color	Black

Shipping information	
List of contents	<ul style="list-style-type: none"> • Tripod Adapter • Cardboard box
Packaging, weight	0.18 kg (0.4 lb.)
Packaging, size	170 x 65 x 75 mm (6.7 x 2.6 x 3.0 in.)
EAN-13	7332558009741 4743254001497 (Estonia plant)
UPC-12	845188006556
Country of origin	Estonia

Compatible with the following products:

- 72203-0411; FLIR K33
- 72203-0511; FLIR K53
- 72201-0106; FLIR K45
- 72201-0206; FLIR K55
- 72202-0303; FLIR K65

P/N: 1910423

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

This cable is used to connect the infrared camera with a computer, using the USB protocol.

Physical data

Weight	60 g (2.1 oz.)
Cable length	1.8 m (5.9 ft.)
Connector	Standard USB-A to USB Mini-B

Shipping information

Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558003428
UPC-12	845188002176
Country of origin	Sweden

Compatible with the following products:

- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case



USB cable Std A <-> Mini-B

P/N: 1910423

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Website

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Customer support

<http://support.flir.com>

- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 74902-0101; FLIR GFx320 14.5° fixed lens
- 74902-0102; FLIR GFx320 24° fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72203-0411; FLIR K33
- 72203-0511; FLIR K53
- 72201-0106; FLIR K45
- 72201-0206; FLIR K55
- 72202-0303; FLIR K65

Accessories for Kx5 series

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
Stand-alone 2-bay battery charger, including power supply with multi plugs.	
Power system	
AC operation	100–240 VAC, 50/60 Hz, 12 VDC out
Power	3000 mA at 12 VDC
Physical data	
Size (L × W × H)	133 × 86 × 51 mm (5.3 × 3.4 × 2.0 in.)
Cable length	1.98 m (6.5 ft.)
Shipping information	
List of contents	<ul style="list-style-type: none"> • Stand-alone 2-bay battery charger • Power supply including cable • EU plug • UK plug • US plug • AU plug
Packaging, weight	0.65 kg
Packaging, size	245 × 165 × 80 mm
EAN-13	7332558003497 4743254000513 (Estonia plant)
UPC-12	845188003487
Country of origin	Estonia

Compatible with the following products:

- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72203-0411; FLIR K33
- 72203-0511; FLIR K53
- 72201-0106; FLIR K45
- 72201-0206; FLIR K55
- 72202-0303; FLIR K65

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Website

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Customer support

<http://support.flir.com>



General description	
High capacity battery for the IR camera.	
Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	3.6 V
Battery capacity	4.4 Ah, at +20°C (+68°F)
Battery note	Approximate lithium content: 1.32 g
Charging temperature	0°C to +45°C (+32°F to +113°F)
Environmental data	
Operating temperature range	-20°C to +85°C (-4°F to +185°F)
Physical data	
Weight	0.15 kg (0.3 lb.)
Size (L x W x H)	110 x 60x 45 mm (4.3 x 2.4 x 1.8 in.)
Shipping information	
List of contents	<ul style="list-style-type: none"> Battery Cardboard box
Packaging, weight	0.25 kg (0.55 lb.)
Packaging, size	185 x 140 x 65 mm (7.3 x 5.5 x 2.6 in.)
EAN-13	4743254002555
UPC-12	845188012861
Country of origin	Estonia

Compatible with the following products:

- 72203-0411; FLIR K33
- 72203-0511; FLIR K53
- 72201-0106; FLIR K45
- 72201-0206; FLIR K55
- 72202-0303; FLIR K65

P/N: T129915ACC

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
Carabiner strap for FLIR Kxx series. Intended to be used between the camera and the retractable lanyard.	

Physical data	
Weight	0.001 kg (0.002 lb.)
Size (L x W x H)	40 x 10 x 3 mm (1.6 x 0.4 x 0.1 in.)
Material	Textile
Color	Black

Shipping information	
Packaging, type	Cardboard box
List of contents	Carabiner strap
Packaging, weight	0.055 kg (0.12 lb.)
Packaging, size	155 x 59 x 69 mm (6.1 x 2.3 x 2.7 in.)
EAN-13	4743254002647
UPC-12	845188013790
Country of origin	Estonia

Compatible with the following products:

- 72203-0411; FLIR K33
- 72203-0511; FLIR K53
- 72203-0414; FLIR K33 (camera only)
- 72203-0514; FLIR K53 (camera only)
- 72201-0106; FLIR K45
- 72201-0206; FLIR K55
- 72202-0303; FLIR K65
- 72201-0112; FLIR K45 (camera only)
- 72201-0212; FLIR K55 (camera only)
- 72202-0313; FLIR K65 (camera only)

P/N: T198509

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Website

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Customer support

<http://support.flir.com>



General description
This cable is used to power the infrared camera from the cigarette lighter socket in a car.
Note: This is the same product as p/n 1196497.

Physical data	
Cable length	1.2 m (3.9 ft.)

Shipping information	
Packaging, type	Cardboard box
Packaging, weight	0.125 kg (0.28 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558004340 4743254001435 (Estonia plant)
UPC-12	845188004361
Country of origin	Sweden

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)

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- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 74902-0101; FLIR GFx320 14.5° fixed lens
- 74902-0102; FLIR GFx320 24° fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72203-0411; FLIR K33



Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.

P/N: T198509

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Website

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- 72203-0511; FLIR K53
- 72201-0106; FLIR K45
- 72201-0206; FLIR K55
- 72202-0303; FLIR K65

P/N: T198398

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General description	
The FLIR K65 accessory starter kit consists of the following items:	
<ul style="list-style-type: none"> • T127724ACC, Neck strap • T127722ACC, Retractable lanyard • T198416ACC, Lanyard strap • T129915ACC, Carabiner strap 	
For full technical data, see the datasheet for each item.	

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Neck strap • Retractable lanyard • Lanyard strap • Carabiner strap
Packaging, weight	0.29 kg (0.64 lb.)
Packaging, size	157 × 130 × 65 mm (6.2 × 5.1 × 2.6 in.)
EAN-13	4743254002401
UPC-12	845188012724
Country of origin	Estonia

Compatible with the following products:

- 72202-0303; FLIR K65

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Power system	
Charging time	< 4 hours
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power, connector type	Screw terminal or HRS_UK60-3PT
DC operation	12/ 24 V DCnominal (11.1 - 28.0 V DC)
Power	Max 36 Watts or 3000 mA at 12 VDC (5 amps fuse)

Environmental data	
Operating temperature range	-40°C to +85°C (-40°F to +185°F)
Storage temperature range	-40°C to +85°C (-40°F to +185°F)
Relative humidity	Operational for non-condensing humidity between 5% and 95%.
EMC	<ul style="list-style-type: none"> EN61000-6-3 Emission EN61000-6-2 Immunity FCC47CFR part 15 class B NFPA requirements ISO 7637-2 Road vehicles - Electrical disturbances from conduction and coupling Part 2: Electrical transient conduction along supply lines only
Encapsulation	IP 20
Bump	Operational after exposed to: 5 pulses/ in each axis/ direction (30 total) of 30g 11ms half sine profile
Vibration	Operational after exposed to: 4, 3g rms random profile. 8 hours in each axis.

Physical data	
Weight	1.050 kg
Size (L x W x H)	380 mm x 180 mm x 153 mm (15 in. x 7.1 in. x 6 in.)
Material	PC / ABS
Color	Grey / black

Shipping information	
List of contents	<ul style="list-style-type: none"> Charger Documentation Card board box
Packaging, weight	3.2 kg (7.0 lb.)
Packaging, size	435 x 245 x 167 mm (17.1 x 9.6 x 6.6 in.)
EAN-13	4743254002159



In-truck charger

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>**Shipping information**

UPC-12

845188011673

Country of origin

Estonia

Compatible with the following products:

- 72203-0411; FLIR K33
- 72203-0511; FLIR K53
- 72201-0106; FLIR K45
- 72201-0206; FLIR K55
- 72202-0303; FLIR K65

P/N: T198416ACC

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General description	
Lanyard strap for FLIR Kxx series.	

Physical data	
Weight	0.01 kg (0.22 lb.)
Size (L x W x H)	400 x 20 x 5 mm (15.7 x 0.8 x 0.2)
Material	Zink
Color	Black

Shipping information	
Packaging, type	Cardboard box
List of contents	• Lanyard strap
Packaging, weight	0.063 kg (0.14 lb.)
Packaging, size	170 x 65 x 75 mm (6.7 x 2.6 x 3.0 in.)
EAN-13	7332558009734 4743254001480 (Estonia plant)
UPC-12	845188006549
Country of origin	Estonia

Compatible with the following products:

- 72203-0411; FLIR K33
- 72203-0511; FLIR K53
- 72201-0106; FLIR K45
- 72201-0206; FLIR K55
- 72202-0303; FLIR K65

P/N: T198310ACC

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General description	
High capacity battery for the IR camera.	
Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	3.6 V
Battery capacity	4.4 Ah, at +20°C (+68°F)
Battery note	Approximate lithium content: 1.32 g
Charging temperature	0°C to +45°C (+32°F to +113°F)
Environmental data	
Operating temperature range	-20°C to +85°C (-4°F to +185°F)
Physical data	
Weight	0.15 kg (0.3 lb.)
Size (L x W x H)	110 x 60x 45 mm (4.3 x 2.4 x 1.8 in.)
Shipping information	
List of contents	<ul style="list-style-type: none"> Battery Cardboard box
Packaging, weight	0.25 kg (0.55 lb.)
Packaging, size	185 x 140 x 65 mm (7.3 x 5.5 x 2.6 in.)
EAN-13	7332558009246 4743254001473 (Estonia plant)
UPC-12	845188006532
Country of origin	Estonia

Compatible with the following products:

- 72203-0411; FLIR K33
- 72203-0511; FLIR K53
- 72201-0106; FLIR K45
- 72201-0206; FLIR K55
- 72202-0303; FLIR K65

P/N: T127724ACC

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General description	
Neck strap for the Kxx-series.	
Physical data	
Weight	0.075 kg (0.2 lb.)
Size (L x W x H)	Adjustable 1200 to 2000 x 30 x 12 mm (47.2 to 78.7 x 1.2 x 0.5 in.)
Material	Kevlar
Color	Black
Shipping information	
List of contents	<ul style="list-style-type: none"> • Neck strap • Cardboard box
Packaging, weight	0.12 kg (0.27 lb.)
Packaging, size	170 x 65 x 75 mm (6.7 x 2.6 x 3.0 in.)
EAN-13	7332558009710 4743254001299 (Estonia plant)
UPC-12	845188005733
Country of origin	Estonia

Compatible with the following products:

- 72203-0411; FLIR K33
- 72203-0511; FLIR K53
- 72201-0106; FLIR K45
- 72201-0206; FLIR K55
- 72202-0303; FLIR K65

P/N: T127722ACC

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General description	
Retractable lanyard for FLIR Kxx series	

Physical data	
Weight	0.120 kg (0.3 lb.)
Size (L x W x H)	120 x 60 x 40 (4.7 x 2.4 x 1.6 in.)
Color	Black

Shipping information	
List of contents	<ul style="list-style-type: none"> Retractable lanyard Cardboard box
Packaging, weight	0.17 kg (0.37 lb.)
Packaging, size	170 x 65 x 75 mm (6.7 x 2.6 x 3.0 in.)
EAN-13	7332558009727 4743254001466 (Estonia plant)
UPC-12	845188006518
Country of origin	Estonia

Compatible with the following products:

- 72203-0411; FLIR K33
- 72203-0511; FLIR K53
- 72201-0106; FLIR K45
- 72201-0206; FLIR K55
- 72202-0303; FLIR K65
- 73701-0101; FLIR K2

P/N: T911309ACC

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Website

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Customer support

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General description	
Screwdriver TX20.	
Physical data	
Weight	0.043 kg (0.099 lb.)
Size (L x D)	110 x 35 mm (4.3 x 1.37 in.)
Material	<ul style="list-style-type: none"> • Chrome vanadium alloy steel • Polymer
Color	Black
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Screwdriver TX20 • Cardboard box
Packaging, weight	0.1 kg (0.22 lb.)
Packaging, size	170 x 70 x 65 mm (6.7 x 2.8 x 2.6 in.)
EAN-13	4743254002166
UPC-12	845188011680
Country of origin	Estonia

Compatible with the following products:

- 74902-0101; FLIR GFx320 14.5° fixed lens
- 74902-0102; FLIR GFx320 24° fixed lens
- 72202-0303; FLIR K65

P/N: T198441ACC

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General description

Rugged, watertight plastic transport case for FLIR Kxx series. Holds all items neatly and securely. The case can be locked with padlocks and features a membrane to prevent pressure build-up in airplane cargo holds.

Physical data

Weight	2.65 kg (5.84 lb.)
Size (L x W x H)	484 x 345 x 178 mm (19.1 x 13.6 x 7.0 in.)
Material	PP with Rubber Blend (Polypropylene)
Color	Black

Shipping information

Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	4743254001855
UPC-12	845188010164
Country of origin	Estonia

Compatible with the following products:

- 72203-0411; FLIR K33
- 72203-0511; FLIR K53
- 72201-0106; FLIR K45
- 72201-0206; FLIR K55
- 72202-0303; FLIR K65

P/N: T198457ACC

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Website

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General description

Tripod adapter for FLIR Kxx series. Necessary accessory to be able to mount the camera on a tripod.

Physical data

Weight	0.13 kg (0.3 lb.)
Size (L x W x H)	66 x 59 x 23 mm (2.6 x 2.3 x 0.9 in.)
Material	Zink
Color	Black

Shipping information

List of contents	<ul style="list-style-type: none"> • Tripod Adapter • Cardboard box
Packaging, weight	0.18 kg (0.4 lb.)
Packaging, size	170 x 65 x 75 mm (6.7 x 2.6 x 3.0 in.)
EAN-13	7332558009741 4743254001497 (Estonia plant)
UPC-12	845188006556
Country of origin	Estonia

Compatible with the following products:

- 72203-0411; FLIR K33
- 72203-0511; FLIR K53
- 72201-0106; FLIR K45
- 72201-0206; FLIR K55
- 72202-0303; FLIR K65

P/N: 1910423

Revision

42932

Last modified

2017-05-30 15:32 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
This cable is used to connect the infrared camera with a computer, using the USB protocol.	

Physical data	
Weight	60 g (2.1 oz.)
Cable length	1.8 m (5.9 ft.)
Connector	Standard USB-A to USB Mini-B

Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558003428
UPC-12	845188002176
Country of origin	Sweden

Compatible with the following products:

- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case

P/N: 1910423

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- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 74902-0101; FLIR GFx320 14.5° fixed lens
- 74902-0102; FLIR GFx320 24° fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72203-0411; FLIR K33
- 72203-0511; FLIR K53
- 72201-0106; FLIR K45
- 72201-0206; FLIR K55
- 72202-0303; FLIR K65

Accessories for FLIR T&M instruments

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2 inch pins for MR06, MR07, MR08, includes 1 pair of pins

P/N: MR-PINS2

Revision

30139

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

General description	
Part number	MR-PINS2
Part name	2 inch pins for MR06, MR07, MR08, includes 1 pair of pins
<p>FLIR's new insulated pins are smaller in diameter—requiring minimal force to drive the pins into a surface—resulting in less impact to the material. The sandblasted, hardened-steel pins with a single-piece design prevent bending and create an improved bonding surface for the abrasion-resistant insulation. The insulation extends all the way to the connection to the probe, so even if you drive the pins all the way into the wall cavity, the drywall will not affect the measurement.</p> <ul style="list-style-type: none">• Fits FLIR's hammer, wall cavity and combo probes.• Unibody construction rather than two piece.• Smaller-diameter pins.• Sandblasted hardened steel.• Insulated with abrasion-resistant coating. <p>Replacement pin set for FLIR MR06, MR07, and MR08.</p>	

Meter data	
Suitable accessory	MR06, MR07, MR08
Included insulated pin pairs and length	1 pair of 2 in. (50 mm)
Warranty	1 year (with registration)

Meter physical data	
Weight	0.02 kg (0.05 lb.)
Dimensions (H x W x L)	8 mm x 8 mm x 76 mm (0.32 in. x 0.32 in. x 3 in.)
Material	Stainless steel
Color	Black insulation

Shipping information	
Packaging type	Plastic bag
Packaging contents	1 pair of 2 in. insulated pins
Packaging weight	0.0127 kg (0.03 lb.)
Packaging dimensions (H x W x L)	1 cm x 2 cm x 8 cm (0.4 in. x 0.8 in. x 3.2 in.)
Inner carton weight	1.5 kg (3.3 lb.)
Inner carton dimensions (H x W x L)	13 cm x 19 cm x 38 cm (5.2 in. x 7.5 in. x 15 in.)
Inner carton quantity (bag)	100
Master carton weight	6 kg (13.3 lb.)
Master carton dimensions (H x W x L)	28 cm x 40 cm x 40 cm (11 in. x 15.8 in. x 15.8 in.)
Master carton quantity	400
EAN-13	0793950372029
UPC-12	793950372029



2 inch pins for MR06, MR07, MR08, includes 1 pair of pins

P/N: MR-PINS2

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Shipping information	
Country of origin	China
Tariff code	9025900000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

2 inch pins for MR06, MR07, MR08, includes 10 pair of pins

P/N: MR-PINS2-10

Revision

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Website

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Customer support

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General description	
Part number	MR-PINS2-10
Part name	2 inch pins for MR06, MR07, MR08, includes 10 pair of pins
<p>FLIR's new insulated pins are smaller in diameter—requiring minimal force to drive the pins into a surface—resulting in less impact to the material. The sandblasted, hardened-steel pins with a single-piece design prevent bending and create an improved bonding surface for the abrasion-resistant insulation. The insulation extends all the way to the connection to the probe, so even if you drive the pins all the way into the wall cavity, the drywall will not affect the measurement.</p> <ul style="list-style-type: none"> • Fits FLIR's hammer, wall cavity and combo probes. • Unibody construction rather than two piece. • Smaller-diameter pins. • Sandblasted hardened steel. • Insulated with abrasion-resistant coating. <p>Replacement pin set for FLIR MR06, MR07, and MR08.</p>	

Meter data	
Suitable accessory	MR06, MR07, MR08
Included insulated pin pairs and length	10 pairs of 2 in. (50 mm)
Warranty	1 Year (with Registration)

Meter physical data	
Weight	0.12 kg (0.25 lb.)
Dimensions (H x W x L)	8 mm x 8 mm x 76 mm (0.32 in. x 0.32 in. x 3 in.)
Material	Stainless steel
Color	Black insulation

Shipping information	
Packaging type	Plastic bag
Packaging contents	10 pairs of 2 in. insulated pins
Packaging weight	0.127 kg (0.3 lb.)
Packaging dimensions (H x W x L)	1 cm x 9 cm x 8 cm (0.4 in. x 3.6 in. x 3.2 in.)
Inner carton weight	6 kg (11 lb.)
Inner carton dimensions (H x W x L)	13 cm x 19 cm x 38 cm (5.2 in. x 7.5 in. x 15 in.)
Inner carton quantity (bag)	50
Master carton weight	12 kg (26.5 lb.)
Master carton dimensions (H x W x L)	15 cm x 40 cm x 40 cm (6 in. x 15.8 in. x 15.8 in.)
Master carton quantity	100
EAN-13	0793950372128
UPC-12	793950372128



2 inch pins for MR06, MR07, MR08, includes 10 pair of pins

P/N: MR-PINS2-10

Revision

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Customer support

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Shipping information	
Country of origin	China
Tariff code	9025900000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

P/N: VSS-20

Revision

29700

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2015-10-16 07:11 UTC+1

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Website

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Customer support

<http://support.flir.com>



Part No.	VSS-20
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General information	
Short description	20 m (66') plumbing spool (no camera, need VSC25 or VSC28)
Compatible main unit	VS70
Integrated handset	No
Wireless capabilities	N/A
Compatible wireless handset	With optional VST
Compatible detachable cameras	VSC25 or VSC28
Warranty	2 years

Camera specifications	
Articulation	No
Diameter	N/A
Resolution	N/A
Probe length	20 m (66')
Focal length	N/A
Field of view	N/A
Imaging sensor	N/A
Video format	N/A
Brightness control	N/A
Lamp type	N/A

Power system	
Power requirements	N/A

Environmental data	
Operating temperature	-10 to 50°C (14-122°F)
Operating humidity	80% maximum
Storage temperature	-40 to 80°C (-40 to 176°F)

Physical data	
Weight	See shipping information
Dimensions (H x W x L)	See shipping information



20 m (66') plumbing spool (no camera, need VSC25 or VSC28)

P/N: VSS-20

Revision

29700

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Physical data	
Material	PC-ABS, rubber hand grip, nylon strap
Color	Gray, black

Shipping information	
Packaging type	Brown box with shipping labels
Packaging contents	Brown box, hard case, spool
Packaging weight	4 kg
Packaging dimensions (H x W x L)	45 cm x 37 cm x 17 cm
Carton weight	9 kg
Carton dimensions (H x W x L)	46 cm x 32 cm x 40 cm
Carton quantity	2
EAN-13	0793950406144
UPC-12	793950406144
Country of origin	TW
Tariff code	9013909000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

25 mm camera head for spool, spool (VSS-20 or VSS-30) needed for operation

P/N: VSC25

Revision

29961

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Part No.	VSC25
----------	-------

General information	
Short description	25 mm camera head for spool, spool (VCS-20 or VCS-30) needed for operation
Compatible main unit	VS70
Integrated handset	No
Wireless capabilities	N/A
Compatible wireless handset	With optional VST
Compatible detachable cameras	N/A
Warranty	2 years

Camera specifications	
Articulation	No
Diameter	25 mm
Resolution	VGA (640 × 480 pixels)
Probe length	N/A
Focal length	65 mm to infinity
Field of view	72°
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED

Power system	
Power requirements	N/A

Environmental data	
Operating temperature	-10 to 50°C (14-122°F)
Operating humidity	80% maximum
Storage temperature	-40 to 80°C (-40 to 176°C)

Physical data	
Weight	See shipping information
Dimensions (H × W × L)	See shipping information
Material	Stainless steel, PC-ABS, rubber hand grip, nylon strap



25 mm camera head for spool, spool (VSS-20 or VSS-30) needed for operation

P/N: VSC25

Revision

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Physical data	
Color	Gray, black

Shipping information	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory graphic, camera
Packaging weight	0.23 kg
Packaging dimensions (H x W x L)	23.5 cm x 7.5 cm x 7 cm
Carton weight	7 kg
Carton dimensions (H x W x L)	47 cm x 25.5 cm x 30 cm
Carton quantity	24
EAN-13	0793950400913
UPC-12	793950400913
Country of origin	TW
Tariff code	9013909000

Technical support	
Website	http://support.flir.com
E-mail	TMSupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

28 mm camera head for spool, spool (VSS-20 or VSS-30) needed for operation

P/N: VSC28

Revision

29962

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Part No.	VSC28
----------	-------

General information	
Short description	28 mm camera head for spool, spool (VCS-20 or VCS-30) needed for operation
Compatible main unit	VS70
Integrated handset	No
Wireless capabilities	N/A
Compatible wireless handset	With optional VST
Compatible detachable cameras	N/A
Warranty	2 years

Camera specifications	
Articulation	No
Diameter	28 mm
Resolution	VGA (640 × 480 pixels)
Probe length	N/A
Focal length	65 mm to infinity
Field of view	110°
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED

Power system	
Power requirements	N/A

Environmental data	
Operating temperature	-10 to 50°C (14-122°F)
Operating humidity	80% maximum
Storage temperature	-40 to 80°C (-40 to 176°F)

Physical data	
Weight	See shipping information
Dimensions (H × W × L)	See shipping information
Material	Stainless steel, PC-ABS, and rubber hand grip, nylon strap



28 mm camera head for spool, spool (VSS-20 or VSS-30) needed for operation

P/N: VSC28

Revision

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Physical data	
Color	Gray, black

Shipping information	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory graphic, camera
Packaging weight	0.26 kg
Packaging dimensions (H x W x L)	23.5 cm x 7.5 cm x 7 cm
Carton weight	7 kg
Carton dimensions (H x W x L)	47 cm x 25.5 cm x 30 cm
Carton quantity	24
EAN-13	0793950400937
UPC-12	793950400937
Country of origin	TW
Tariff code	9013909000

Technical support	
Website	http://support.flir.com
E-mail	TMSupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com



3.9 mm (0.15") camera with 1 m (3.3') flexible probe—QVGA via short focus

P/N: VSC39-1FM

Revision

29700

Last modified

2015-10-16 07:11 UTC+1

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Part No.	VSC39-1FM
----------	-----------

General information	
Short description	3.9 mm (0.15") camera with 1 m (3.3') flexible probe—QVGA via short focus
Compatible main unit	VS70
Integrated handset	No
Wireless capabilities	N/A
Compatible wireless handset	With optional VST
Compatible detachable cameras	N/A
Warranty	2 years

Camera specifications	
Articulation	No
Diameter	3.9 mm
Resolution	QVGA (320 × 240 pixels)
Probe length	1 m
Focal length	20–60 mm
Field of view	53°
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED

Power system	
Power requirements	N/A

Environmental data	
Operating temperature	–10 to 50°C (14–122°F)
Operating humidity	80% maximum
Storage temperature	–40 to 80°C (–40 to 176°F)

Physical data	
Weight	See shipping information
Dimensions (H × W × L)	See shipping information
Material	PC-ABS, and rubber hand grip, nylon strap



3.9 mm (0.15") camera with 1 m (3.3') flexible probe—QVGA via short focus

P/N: VSC39-1FM

Revision

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Physical data	
Color	Gray, black

Shipping information	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory graphic, camera, camera attachments: mirror, anti-snag tip, magnet
Packaging weight	0.3 kg
Packaging dimensions (H x W x L)	22 cm x 19 cm x 5 cm
Carton weight	8.2 kg
Carton dimensions (H x W x L)	46 cm x 32 cm x 40 cm
Carton quantity	24
EAN-13	0793950400944
UPC-12	793950400944
Country of origin	TW
Tariff code	9013909000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

P/N: VSC65-12S

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Part No.	VSC65-12S
----------	-----------

General information	
Short description	30 cm (12") stainless steel rigid probe
Compatible main unit	VS70
Integrated handset	No
Wireless capabilities	N/A
Compatible wireless handset	With optional VST
Compatible detachable cameras	N/A
Warranty	2 years

Camera specifications	
Articulation	No
Diameter	6.5 mm
Resolution	VGA (640 x 480 pixels)
Probe length	30 cm (12")
Focal length	20–60 mm
Field of view	56°
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED

Power system	
Power requirements	N/A

Environmental data	
Operating temperature	-10 to 50°C (14–122°F)
Operating humidity	80% maximum
Storage temperature	-40 to 80°C (-40 to 176°F)

Physical data	
Weight	See shipping information
Dimensions (H x W x L)	See shipping information
Material	Stainless Steel, PC-ABS, rubber hand grip, nylon strap



30 cm (12") stainless steel rigid probe

P/N: VSC65-12S

Revision

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Physical data	
Color	Gray, black

Shipping information	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory graphic, camera, camera attachments: rotating mirror
Packaging weight	1.7 kg
Packaging dimensions (H x W x L)	59 cm x 49 cm x 26 cm
Carton weight	8 kg
Carton dimensions (H x W x L)	46 cm x 32 cm x 40 cm
Carton quantity	4
EAN-13	0793950406052
UPC-12	793950406052
Country of origin	TW
Tariff code	9013909000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

P/N: VSS-30

Revision

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Website

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Customer support

<http://support.flir.com>



Part No.	VSS-30
----------	--------

General information	
Short description	30 m (98') plumbing spool (no camera, need VSC25 or VSC28)
Compatible main unit	VS70
Integrated handset	No
Wireless capabilities	N/A
Compatible wireless handset	With optional VST
Compatible detachable cameras	VSC25 or VSC28
Warranty	2 years

Camera specifications	
Articulation	No
Diameter	N/A
Resolution	N/A
Probe length	30 m (98')
Focal length	N/A
Field of view	N/A
Imaging sensor	N/A
Video format	N/A
Brightness control	N/A
Lamp type	N/A

Power system	
Power requirements	N/A

Environmental data	
Operating temperature	-10 to 50°C (14-122°F)
Operating humidity	80% maximum
Storage temperature	-40 to 80°C (-40 to 176°F)

Physical data	
Weight	See shipping information
Dimensions (H x W x L)	See shipping information



30 m (98') plumbing spool (no camera, need VSC25 or VSC28)

P/N: VSS-30

Revision

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Physical data	
Material	PC-ABS, rubber hand grip, nylon strap
Color	Gray, black

Shipping information	
Packaging type	Brown box with shipping labels
Packaging contents	Brown box, hard case, spool
Packaging weight	4.5 kg
Packaging dimensions (H x W x L)	45 cm x 37 cm x 17 cm
Carton weight	10 kg
Carton dimensions (H x W x L)	46 cm x 32 cm x 40 cm
Carton quantity	2
EAN-13	0793950406151
UPC-12	793950406151
Country of origin	TW
Tariff code	9013909000

Technical support	
Website	http://support.flir.com
E-mail	TMSupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

P/N: MR-PINS4

Revision

30160

Last modified

2015-11-02 14:02 UTC+1

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Website

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General description	
Part number	MR-PINS4
Part name	4 inch pins for MR06, MR07, MR08, includes 1 pair of pins
<p>FLIR's new insulated pins are smaller in diameter—requiring minimal force to drive the pins into a surface—resulting in less impact to the material. The sandblasted, hardened-steel pins with a single-piece design prevent bending and create an improved bonding surface for the abrasion-resistant insulation. The insulation extends all the way to the connection to the probe, so even if you drive the pins all the way into the wall cavity, the drywall will not affect the measurement.</p> <ul style="list-style-type: none"> • Fits FLIR's hammer, wall cavity and combo probes. • Unibody construction rather than two piece. • Smaller-diameter pins. • Sandblasted hardened steel. • Insulated with abrasion-resistant coating. <p>Replacement pin set for FLIR MR06, MR07, and MR08.</p>	

Meter data	
Suitable accessory	MR06, MR07, MR08
Included insulated pin pairs and length	1 pair of 4 in. (101 mm)
Warranty	1 year (with registration)

Meter physical data	
Weight	0.02 kg (0.05 lb.)
Dimensions (H x W x L)	8 mm x 8 mm x 127 mm (0.32 in. x 0.32 in. x 5 in.)
Material	Stainless steel
Color	Black insulation

Shipping information	
Packaging type	Plastic bag
Packaging contents	1 pair of 4 in. insulated pins
Packaging weight	0.172 kg (0.4 lb.)
Packaging dimensions (H x W x L)	1 cm x 2.5 cm x 13 cm (0.4 in. x 1 in. x 5.2 in.)
Inner carton weight	2 kg (4.4 lb.)
Inner carton dimensions (H x W x L)	13 cm x 19 cm x 38 cm (5.2 in. x 7.5 in. x 15 in.)
Inner carton quantity (bag)	100
Master carton weight	8 kg (17.7 lb.)
Master carton dimensions (H x W x L)	28 cm x 40 cm x 40 cm (11 in. x 15.8 in. x 15.8 in.)
Master carton quantity	400
EAN-13	0793950372043



4 inch pins for MR06, MR07, MR08, includes 1 pair of pins

P/N: MR-PINS4

Revision

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Website

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Customer support

<http://support.flir.com>

Shipping information	
UPC-12	93950372043
Country of origin	China
Tariff code	9025900000

Technical support	
Website	http://support.flir.com
E-mail	TMSupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com



4.1 mm (0.16") camera with 2 m (6.6') semi-rigid probe—QVGA via short focus

P/N: VSC41-2RM

Revision

29700

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Part No.	VSC41-2RM
----------	-----------

General information	
Short description	4.1 mm (0.16") camera with 2 m (6.6') semi-rigid probe—QVGA via short focus
Compatible main unit	VS70
Integrated handset	No
Wireless capabilities	N/A
Compatible wireless handset	With optional VST
Compatible detachable cameras	N/A
Warranty	2 years

Camera specifications	
Articulation	No
Diameter	4.1 mm
Resolution	QVGA (320 × 240 pixels)
Probe length	2 m
Focal length	20–60 mm
Field of view	53°
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED

Power system	
Power requirements	N/A

Environmental data	
Operating temperature	–10 to 50°C (14–122°F)
Operating humidity	80% maximum
Storage temperature	–40 to 80°C (–40 to 176°F)

Physical data	
Weight	See shipping information
Dimensions (H × W × L)	See shipping information
Material	PC-ABS, rubber hand grip, nylon strap



4.1 mm (0.16") camera with 2 m (6.6') semi-rigid probe—QVGA via short focus

P/N: VSC41-2RM

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Physical data	
Color	Gray, black

Shipping information	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory graphic, camera, camera attachments: mirror, anti-snag tip, magnet
Packaging weight	0.3 kg
Packaging dimensions (H x W x L)	22 cm x 19 cm x 5 cm
Carton weight	8.2 kg
Carton dimensions (H x W x L)	46 cm x 32 cm x 40 cm
Carton quantity	24
EAN-13	0793950400968
UPC-12	793950400968
Country of origin	TW
Tariff code	9013909000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

43 cm (17") stainless steel rigid probe with rotating mirror

P/N: VSC65-17S

Revision

29700

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Website

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Customer support

<http://support.flir.com>



Part No.	VSC65-17S
----------	-----------

General information	
Short description	43 cm (17") stainless steel rigid probe with rotating mirror
Compatible main unit	VS70
Integrated handset	No
Wireless capabilities	N/A
Compatible wireless handset	With optional VST
Compatible detachable cameras	N/A
Warranty	2 years

Camera specifications	
Articulation	No
Diameter	6.5 mm
Resolution	VGA (640 × 480 pixels)
Probe length	43 cm (17")
Focal length	20–60 mm
Field of view	56°
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED

Power system	
Power requirements	N/A

Environmental data	
Operating temperature	–10 to 50°C (14–122°F)
Operating humidity	80% maximum
Storage temperature	–40 to 80°C (–40 to 176°F)

Physical data	
Weight	See shipping information
Dimensions (H × W × L)	See shipping information
Material	Stainless Steel, PC-ABS, rubber hand grip, nylon strap



43 cm (17") stainless steel rigid probe with rotating mirror

P/N: VSC65-17S

Revision

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Physical data	
Color	Gray, black

Shipping information	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory graphic, camera, camera attachments: rotating mirror
Packaging weight	1.75 kg
Packaging dimensions (H x W x L)	59 cm x 49 cm x 26 cm
Carton weight	8.2 kg
Carton dimensions (H x W x L)	46 cm x 32 cm x 40 cm
Carton quantity	4
EAN-13	0793950406069
UPC-12	793950406069
Country of origin	TW
Tariff code	9013909000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com



5.8 mm (0.23") camera with 1 m (3.3') semi-rigid probe—VGA via long focus

P/N: VSC58-1R

Revision

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Part No.	VSC58-1R
----------	----------

General information	
Short description	5.8 mm (0.23") camera with 1 m (3.3') semi-rigid probe—VGA via long focus
Compatible main unit	VS70
Integrated handset	No
Wireless capabilities	N/A
Compatible wireless handset	With optional VST
Compatible detachable cameras	N/A
Warranty	2 years

Camera specifications	
Articulation	No
Diameter	5.8 mm
Resolution	VGA (640 × 480 pixels)
Probe length	1 m
Focal length	65 mm to infinity
Field of view	56°
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED

Power system	
Power requirements	N/A

Environmental data	
Operating temperature	-10 to 50°C (14–122°F)
Operating humidity	80% maximum
Storage temperature	-40 to 80°C (-40 to 176°F)

Physical data	
Weight	See shipping information
Dimensions (H × W × L)	See shipping information
Material	PC-ABS, rubber hand grip, nylon strap



5.8 mm (0.23") camera with 1 m (3.3') semi-rigid probe—VGA via long focus

P/N: VSC58-1R

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Physical data	
Color	Gray, black

Shipping information	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory graphic, camera, camera attachments: mirror, anti-snag tip, magnet
Packaging weight	0.32 kg
Packaging dimensions (H x W x L)	22 cm x 19 x 5 cm
Carton weight	8.7 kg
Carton dimensions (H x W x L)	46 cm x 32 cm x 40 cm
Carton quantity	24
EAN-13	0793950400982
UPC-12	793950400982
Country of origin	TW
Tariff code	9013909000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com



5.8 mm (0.23") camera with 1 m (3.3') semi-rigid probe—VGA via macro short focus

P/N: VSC58-1RM

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Part No.	VSC58-1RM
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General information	
Short description	5.8 mm (0.23") camera with 1 m (3.3') semi-rigid probe—VGA via macro short focus
Compatible main unit	VS70
Integrated handset	No
Wireless capabilities	N/A
Compatible wireless handset	With optional VST
Compatible detachable cameras	N/A
Warranty	2 years

Camera specifications	
Articulation	No
Diameter	5.8 mm
Resolution	VGA (640 × 480 pixels)
Probe length	1 m
Focal length	20–60 mm
Field of view	56°
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED

Power system	
Power requirements	N/A

Environmental data	
Operating temperature	–10 to 50°C (14–122°F)
Operating humidity	80% maximum
Storage temperature	–40 to 80°C (–40 to 176°F)

Physical data	
Weight	See shipping information
Dimensions (H × W × L)	See shipping information
Material	PC-ABS, rubber hand grip, nylon strap



5.8 mm (0.23") camera with 1 m (3.3') semi-rigid probe—VGA via macro short focus

P/N: VSC58-1RM

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Physical data	
Color	Gray, black

Shipping information	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory graphic, camera, camera attachments: mirror, anti-snag tip, magnet
Packaging weight	0.32 kg
Packaging dimensions (H x W x L)	22 cm x 19 cm x 5 cm
Carton weight	8.7 kg
Carton dimensions (H x W x L)	46 cm x 32 cm x 40 cm
Carton quantity	24
EAN-13	0793950400999
UPC-12	793950400999
Country of origin	TW
Tariff code	9013909000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com



5.8 mm (0.23") camera with 2 m (78") semi-rigid probe—VGA via long focus

P/N: VSC58-2R

Revision

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Part No.	VSC58-2R
----------	----------

General information	
Short description	5.8 mm (0.23") camera with 2 m (78") semi-rigid probe—VGA via long focus
Compatible main unit	VS70
Integrated handset	No
Wireless capabilities	N/A
Compatible wireless handset	With optional VST
Compatible detachable cameras	N/A
Warranty	2 years

Camera specifications	
Articulation	No
Diameter	5.8 mm
Resolution	VGA (640 × 480 pixels)
Probe length	1 m
Focal length	65 mm to infinity
Field of view	56°
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED

Power system	
Power requirements	N/A

Environmental data	
Operating temperature	-10 to 50°C (14–122°F)
Operating humidity	80% maximum
Storage temperature	-40 to 80°C (-40 to 176°F)

Physical data	
Weight	See shipping information
Dimensions (H × W × L)	See shipping information
Material	PC-ABS, rubber hand grip, nylon strap



5.8 mm (0.23") camera with 2 m (78") semi-rigid probe—VGA via long focus

P/N: VSC58-2R

Revision

29700

Last modified

2015-10-16 07:11 UTC+1

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Physical data	
Color	Gray, black

Shipping information	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory graphic, camera, camera attachments: mirror, anti-snag tip, magnet
Packaging weight	0.42 kg
Packaging dimensions (H x W x L)	22 cm x 19 cm x 5 cm
Carton weight	11.5 kg
Carton dimensions (H x W x L)	46 cm x 32 cm x 40 cm
Carton quantity	24
EAN-13	0793950406014
UPC-12	793950406014
Country of origin	TW
Tariff code	9013909000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com



5.8 mm (0.23") camera with 2 m (78") semi-rigid probe—VGA via macro short focus

P/N: VSC58-2RM

Revision

29700

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Part No.	VSC58-2RM
----------	-----------

General information	
Short description	5.8 mm (0.23") camera with 2 m (78") semi-rigid probe—VGA via macro short focus
Compatible main unit	VS70
Integrated handset	No
Wireless capabilities	N/A
Compatible wireless handset	With optional VST
Compatible detachable cameras	N/A
Warranty	2 years

Camera specifications	
Articulation	No
Diameter	5.8 mm
Resolution	VGA (640 × 480 pixels)
Probe length	1 m
Focal length	20–60 mm
Field of view	56°
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED

Power system	
Power requirements	N/A

Environmental data	
Operating temperature	–10 to 50°C (14–122°F)
Operating humidity	80% maximum
Storage temperature	–40 to 80°C (–40 to 176°F)

Physical data	
Weight	See shipping information
Dimensions (H × W × L)	See shipping information
Material	PC-ABS, rubber hand grip, nylon strap



5.8 mm (0.23") camera with 2 m (78") semi-rigid probe—VGA via macro short focus

P/N: VSC58-2RM

Revision

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Physical data	
Color	Gray, black

Shipping information	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory graphic, camera, camera attachments: mirror, anti-snag tip, magnet
Packaging weight	0.42 kg
Packaging dimensions (H x W x L)	22 cm x 19 cm x 5 cm
Carton weight	11.5 kg
Carton dimensions (H x W x L)	46 cm x 32 cm x 40 cm
Carton quantity	24
EAN-13	0793950406021
UPC-12	793950406021
Country of origin	TW
Tariff code	9013909000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

5.8 mm cam with 20 m fiberglass-reinforced probe—QVGA via macro short focus

P/N: VSC58-20M

Revision

29700

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Part No.	VSC58-20M
----------	-----------

General information	
Short description	5.8 mm cam with 20 m fiberglass-reinforced probe—QVGA via macro short focus
Compatible main unit	VS70
Integrated handset	No
Wireless capabilities	N/A
Compatible wireless handset	With optional VST
Compatible detachable cameras	N/A
Warranty	2 years

Camera specifications	
Articulation	No
Diameter	5.8 mm
Front camera focal length	20–60 mm
Front camera field of view	56°
Front camera resolution	QVGA (320 × 240) pixels
Probe length	20 m
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED

Power system	
Power requirements	N/A

Environmental data	
Operating temperature	–10 to 50°C (14–122°F)
Operating humidity	80% maximum
Storage temperature	–40 to 80°C (–40 to 176°F)



5.8 mm cam with 20 m fiberglass-reinforced probe—QVGA via macro short focus

P/N: VSC58-20M

Revision

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Physical data	
Weight	See shipping information
Dimensions (H x W x L)	See shipping information
Material	PC-ABS, rubber hand grip, nylon strap
Color	Gray, black

Shipping information	
Packaging type	Brown shipping box
Packaging contents	Brown shipping box, hardcase, camera, camera attachments: mirror, anti-snap tip, magnet
Packaging weight	4 kg
Packaging dimensions (H x W x L)	45 cm x 37 cm x 17 cm
Carton weight	9 kg
Carton dimensions (H x W x L)	39 cm x 36 cm x 47 cm
Carton quantity	2
EAN-13	0793950406007
UPC-12	793950406007
Country of origin	TW
Tariff code	9013909000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

P/N: VSC58-30M

Revision

29700

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Website

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Customer support

<http://support.flir.com>



Part No.	VSC58-30M
----------	-----------

General information	
Short description	5.8 mm camera with 30 m fiberglass-reinforced probe—QVGA via SF
Compatible main unit	VS70
Integrated handset	No
Wireless capabilities	N/A
Compatible wireless handset	With optional VST
Compatible detachable cameras	N/A
Warranty	2 years

Camera specifications	
Articulation	No
Diameter	5.8 mm
Front camera focal length	20–60 mm
Front camera field of view	56°
Front camera resolution	QVGA (320 × 240) pixels
Probe length	30 m
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED

Power system	
Power requirements	N/A

Environmental data	
Operating temperature	–10 to 50°C (14–122°F)
Operating humidity	80% maximum
Storage temperature	–40 to 80°C (–40 to 176°F)



5.8 mm camera with 30 m fiberglass-reinforced probe—QVGA via SF

P/N: VSC58-30M

Revision

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Physical data	
Weight	See shipping information
Dimensions (H × W × L)	See shipping information
Material	PC-ABS, rubber hand grip, nylon strap
Color	Gray, black

Shipping information	
Packaging type	Brown shipping box
Packaging contents	Brown shipping box, hardcase, camera, camera attachments: mirror, anti-snag tip, magnet
Packaging weight	4.5 kg
Packaging dimensions (H × W × L)	45 cm × 37 cm × 17 cm
Carton weight	10 kg
Carton dimensions (H × W × L)	39 cm × 36 cm × 47 cm
Carton quantity	2
EAN-13	0793950406038
UPC-12	793950406038
Country of origin	TW
Tariff code	9013909000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

P/N: MR-PINS6

Revision

30159

Last modified

2015-11-02 14:00 UTC+1

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Website

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General description	
Part number	MR-PINS6
Part name	6 inch pins for MR06, MR07, MR08, includes 1 pair of pins
<p>FLIR's new insulated pins are smaller in diameter—requiring minimal force to drive the pins into a surface—resulting in less impact to the material. The sandblasted, hardened-steel pins with a single-piece design prevent bending and create an improved bonding surface for the abrasion-resistant insulation. The insulation extends all the way to the connection to the probe, so even if you drive the pins all the way into the wall cavity, the drywall will not affect the measurement.</p> <ul style="list-style-type: none"> • Fits FLIR's hammer, wall cavity and combo probes. • Unibody construction rather than two piece. • Smaller-diameter pins. • Sandblasted hardened steel. • Insulated with abrasion-resistant coating. <p>Replacement pin set for FLIR MR06, MR07, and MR08.</p>	

Meter data	
Suitable accessory	MR06, MR07, MR08
Included insulated pin pairs and length	1 pair of 6 in. (152 mm)
Warranty	1 year (with registration)

Meter physical data	
Weight	0.02 kg (0.05 lb.)
Dimensions (H x W x L)	8 mm x 8 mm x 178 mm (0.32 in. x 0.32 in. x 7 in.)
Material	Stainless steel
Color	Black insulation

Shipping information	
Packaging type	Plastic bag
Packaging contents	1 pair of 6 in. insulated pins
Packaging weight	0.022 kg (0.05 lb.)
Packaging dimensions (H x W x L)	1 cm x 3 cm x 19 cm (0.4 in. x 1.2 in. x 7.5 in.)
Inner carton weight	2.5 kg (5.6 lb.)
Inner carton dimensions (H x W x L)	13 cm x 19 cm x 38 cm (5.2 in. x 7.5 in. x 15 in.)
Inner carton quantity (bag)	100
Master carton weight	10 kg (22 lb.)
Master carton dimensions (H x W x L)	28 cm x 40 cm x 40 cm (11 in. x 15.8 in. x 15.8 in.)
Master carton quantity	400
EAN-13	0793950372067



6 inch pins for MR06, MR07, MR08, includes 1 pair of pins

P/N: MR-PINS6

Revision

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Website

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Customer support

<http://support.flir.com>

Shipping information	
UPC-12	793950372067
Country of origin	China
Tariff code	9025900000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com



8 mm (0.31") camera with 1 m (3.3') semi-rigid probe—VGA via long focus

P/N: VSC80-1R

Revision

29700

Last modified

2015-10-16 07:11 UTC+1

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Website

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Customer support

<http://support.flir.com>



Part No.	VSC80-1R
----------	----------

General information	
Short description	8 mm (0.31") camera with 1 m (3.3') semi-rigid probe—VGA via long focus
Compatible main unit	VS70
Integrated handset	No
Wireless capabilities	N/A
Compatible wireless handset	With optional VST
Compatible detachable cameras	N/A
Warranty	2 years

Camera specifications	
Articulation	No
Diameter	8.0 mm
Resolution	VGA (640 × 480 pixels)
Probe length	1 m
Focal length	65 mm to infinity
Field of view	56°
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED

Power system	
Power requirements	N/A

Environmental data	
Operating temperature	-10 to 50°C (14–122°F)
Operating humidity	80% maximum
Storage temperature	-40 to 80°C (-40 to 176°F)

Physical data	
Weight	See shipping information
Dimensions (H × W × L)	See shipping information
Material	PC-ABS, rubber hand grip, nylon strap



8 mm (0.31") camera with 1 m (3.3') semi-rigid probe—VGA via long focus

P/N: VSC80-1R

Revision

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Physical data	
Color	Gray, black

Shipping information	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory graphic, camera, camera attachments: mirror, anti-snag tip, magnet
Packaging weight	0.35 kg
Packaging dimensions (H x W x L)	22 cm x 19 cm x 5 cm
Carton weight	9.5 kg
Carton dimensions (H x W x L)	46 cm x 32 cm x 40 cm
Carton quantity	24
EAN-13	0793950406083
UPC-12	793950406083
Country of origin	TW
Tariff code	9013909000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com



8 mm (0.31") camera with 2 m (6.6') semi-rigid probe—VGA via long focus

P/N: VSC80-2R

Revision

29700

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Part No.	VSC80-2R
----------	----------

General information	
Short description	8 mm (0.31") camera with 2 m (6.6') semi-rigid probe—VGA via long focus
Compatible main unit	VS70
Integrated handset	No
Wireless capabilities	N/A
Compatible wireless handset	With optional VST
Compatible detachable cameras	N/A
Warranty	2 years

Camera specifications	
Articulation	No
Diameter	8.0 mm
Resolution	VGA (640 × 480 pixels)
Probe length	2 m (6.6')
Focal length	65 mm to infinity
Field of view	56°
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED

Power system	
Power requirements	N/A

Environmental data	
Operating temperature	-10 to 50°C (14–122°F)
Operating humidity	80% maximum
Storage temperature	-40 to 80°C (-40 to 176°F)

Physical data	
Weight	See shipping information
Dimensions (H × W × L)	See shipping information
Material	PC-ABS, rubber hand grip, nylon strap



8 mm (0.31") camera with 2 m (6.6') semi-rigid probe—VGA via long focus

P/N: VSC80-2R

Revision

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Physical data	
Color	Gray, black

Shipping information	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory graphic, camera, camera attachments: mirror, anti-snag tip, magnet
Packaging weight	0.5 kg
Packaging dimensions (H x W x L)	22 cm x 19 cm x 5 cm
Carton weight	13.5 kg
Carton dimensions (H x W x L)	46 cm x 32 cm x 40 cm
Carton quantity	24
EAN-13	0793950406090
UPC-12	793950406090
Country of origin	TW
Tariff code	9013909000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

P/N: TA55

Revision

42583

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2017-05-09 14:35 UTC+1

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Website

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Customer support

<http://support.flir.com>



Part number	TA55
Part description	AC Current Line Splitter
	<ul style="list-style-type: none"> • Provides easy and safe measurements of current and voltage from two or three wire outlets. • Plugging the power connector into the line splitter separates the hot/live conductor from the neutral (and ground) for accurate current measurement. • Dual ranges (x1 and x10) for higher resolution on low-amperage readings. • Built-in recessed voltage testing inputs. • 2 year warranty.

Specifications	
Voltage	120 V \pm 10%
Current	15 A AC maximum
Temperature	Operating: 5–40°C (41–104°F); storage: –20 to 60°C (–4 to 140°F)
Humidity	Operating: max. 80% up to 31°C (87°F) decreasing linearly to 50% at 40°C (104°F); storage <80%
Altitude	2000 m (7000') max.

Meter data	
Suitable main unit	CM78, CM83 (CM82, CM85)
Warranty	2 years

Certifications	
Certifications	UL, CUL, CAT II—600 V
Safety	For indoor use and in accordance with the requirements for double insulation to IEC 1010-1 (1995): EN 61010-1 (1995), Overvoltage Category II, Pollution Degree 2

Meter physical data	
Weight:	0.102 kg
Dimensions (H x W x L)	2.2 cm x 6.03 cm x 16.2 cm
Material	PC-ABS
Color	Black

Shipping information	
Packaging type	Color box with view of product in clamshell



AC Current Line splitter

P/N: TA55

Revision

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Shipping information	
Packaging contents	Manual, TA55
Packaging weight:	0.207 kg
Packaging dimensions (H x W x L)	6.03 cm x 8.6 cm x 24.4 cm
Carton weight	4.4 kg
Carton dimensions	15" x 7.5" x 18.25"
Carton quantity	48
EAN-13	0793950377550
UPC-12	793950377550
Country of origin	Taiwan
Tariff code	9030908822

Technical support	
Website	http://support.flir.com
E-mail	TMSupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

P/N: TA14

Revision

26727

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2015-06-12 10:27 UTC+1

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Website

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Customer support

<http://support.flir.com>



Part Number	TA14
Part Description	Belt clip holster for TG165
Add the TA14 clip holster to your belt to conveniently carry the TG165 Imaging IR Thermometer at your side— whenever, wherever— you need it. The multi-positional, durable and secure design makes it easy for you to quickly access the TG165 while on the job and free your hands for other tools	

Meter Data	
Suitable Main Unit	TG165
Warranty	1 Year

Meter Physical Data	
Weight	0.4 kg (0.8 lb.)
Dimensions (H x W x L)	8.5 x 17 x 27 cm (3.4 x 6.7 x 10.6 in.)
Material	Rubber patterned PU / Lycra (Exterior), EVA with Velvet finish (Interior)
Color	Black

Shipping Information	
Packaging, type	Color box
Packaging, Contents	Belt clip holster
Each Weight	0.227 kg (0.5 lb.)
Each Dimensions (H x W x L)	190.5 x 102 x 102 mm (7.5 x 4 x 4 in.)
Master Carton Weight	N/A
Master Carton Dimensions	N/A
Master Carton Quantity	N/A
EAN-13	0793950377147
UPC-12	793950377147
Country of Origin	USA
Tariff Code	N/A

Technical support	
Website	http://support.flir.com
E-mail	TMSupport@flir.com



Belt clip holster for TG165

P/N: TA14

Revision

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Customer support

<http://support.flir.com>

Technical support	
Phone	855-499-3662
Repairs	repair@flir.com

P/N: TA70

Revision

29570

Last modified

2015-10-13 15:56 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Part number	TA70
Part description	CAT IV Insulated Alligator Probes
<ul style="list-style-type: none"> • Works with FLIR TA80 test probes. • Complies with latest UL CAT IV/CAT III—1000 V. • Slide-on connection with finger guards. • 2 year warranty. 	
Specifications	
Maximum capacity	10 A
Operating temperature	-10 to 50°C (14 to 122°F)
Relative humidity	Maximum relative humidity 80% for temperature up to 31°C (88°F) decreasing linearly to 50% relative humidity at 50°C (122°F)
Storage temperature	-20 to 60°C (-4 to 140°F), <80% relative humidity
Altitude	Operating below 2000 m (6562')
Meter data	
Suitable main unit	FLIR TA80 test leads
Warranty	2 years
Certifications	
Certifications	IEC/EN 61010-031:2008 and UL 61010-031:2010 to 600 V CAT IV and 1000 V CAT III
Meter physical data	
Weight	0.02 kg
Dimensions (H × W × L)	7.94 cm × 4.13 cm × 1.91 cm
Material	Nickel-plated steel, TPR and polypropylene
Color	Black and red
Shipping information	
Packaging type	Color box
Packaging contents	Manual, TA70 alligator clips
Packaging weight	0.05 kg



CAT IV Insulated Alligator Probes

P/N: TA70

Revision

29570

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Shipping information	
Packaging dimensions (H x W x L)	7 .62 cm x 2.54 cm x 16.83 cm
Carton weight	3.3 kg
Carton dimensions	14.5" x 13" x 8"
Carton quantity	48
EAN-13	0793950377703
UPC-12	793950377703
Country of origin	Taiwan
Tariff code	9030908822

Technical support	
Website	http://support.flir.com
E-mail	TMSupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

P/N: TA80

Revision

29571

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Website

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Customer support

<http://support.flir.com>



Part number	TA80
Part description	CAT IV Silicone Test Leads
	<ul style="list-style-type: none"> • 1000 V, 10 A test probes. • UL certified to CAT IV—1000 V rating. • Gold-plated tips for professional precision. • Double-extruded multi-color silicone leads with wear indication. • High-strength stress relief integrated into the probe. • 41" lead length with a total length of 46" including the probe. • Removable probe protection caps for 4mm tips.

Specifications	
Maximum capacity	1000 V, 10 A with protective caps
Operating temperature	-10 to 50°C (14–122°F)
Relative humidity	Maximum relative humidity 80% for temperature up to 31°C (88°F) decreasing linearly to 50% relative humidity at 50°C (122°F)
Storage temperature	-20 to 60°C (-4 to 140°F), <80% relative humidity
Altitude	Operating below 2000 m (6562')

Meter data	
Suitable main unit	DM93, CM83, CM78 (IM75, DM92, CM85, CM82)
Warranty	2 years

Certifications	
Certifications	IEC/EN 61010-031:2008 and UL 61010-031:2010 to 1 kV CAT IV (with the protective cap removed: 1 kV CAT II only)

Meter physical data	
Weight:	0.06 kg
Dimensions (H × W × L)	5.08 cm × 3.81 cm × 117 cm
Material	Gold-plated tips, double-extruded silicone (removable caps for 4 mm tips)
Color	Red and black

Shipping information	
Packaging type	Color box
Packaging contents	Manual, TA80 test leads
Packaging weight	0.09 kg
Packaging dimensions (H × W × L)	7.62 cm × 2.54 cm × 16.83 cm



CAT IV Silicone Test Leads

P/N: TA80

Revision

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Shipping information	
Carton packaging weight	4.4 kg
Carton dimensions	14.5" × 13" × 8"
Carton quantity	48
EAN-13	0793950377802
UPC-12	793950377802
Country of origin	Taiwan
Tariff code	9030908822

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com



Display for Point of Purchase or Slat Wall for VP5x

P/N: VP5x-4-Pack

Revision

29700

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2015-10-16 07:11 UTC+1

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Website

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Customer support

<http://support.flir.com>



Part number	VP5x-4-Pack
Display for point of purchase or slat wall for VP5x non-contact voltage detector with flashlight.	

Assembled physical data	
Weight	3.1 lb.
Dimensions (H x W x L)	20" x 7.75" x 11"
Color	Black
Suitable units	VP50, VP52
Number of units (not included)	4

Shipping information	
Packaging, type	Brown shipping box
Packaging contents	Counter display base, counter display backing, push screws (4), working VP50 (attached)
Packaging weight	5 lb.
Carton dimensions (L x W x H)	14" x 11" x 10"
Carton quantity	1
EAN-13	N/A
UPC-12	N/A
Country of origin	USA
Tariff code	3929.90.9980

Technical support	
Website	http://support.flir.com
E-mail	TMSupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

P/N:MR10

Revision

29700

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Website

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Customer support

<http://support.flir.com>



Part number	MR10
Safeguard your valuable FLIR T&M instruments with our durable EVA protective case. Stow your FLIR test and measurement gear in a FLIR durable EVA protective case to shield against dirt, dings, and harsh environmental conditions.	
<ul style="list-style-type: none"> Fits the FLIR MR7x series of digital multimeters and accessories. Custom instrument compartment protects tools from extremes. Concealed zipper designed for dirt resistance. Resilient nylon carry strap. Ruggedized non-slip finish. 	

Meter data	
Suitable main unit	MR77
Warranty	1 year

Meter physical data	
Weight	0.4 kg
Dimensions (H x W x L)	17.34 cm x 9.72 cm x 26.67 cm
Material	Rubber patterned PU/Lycra (exterior), EVA with velvet finish (interior)
Color	Black

Shipping information	
Packaging type	Color box with view of product in clamshell
Packaging contents	Protective case
Packaging weight	0.56 kg
Packaging dimensions (H x W x L)	17.78 cm x 10.795 cm x 34.29 cm
Carton weight	13.44 kg
Carton dimensions	22.5" x 14.5" x 25"
Carton quantity	20
EAN-13	0793950370117
UPC-12	793950370117
Country of origin	China
Tariff code	4202122020

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com



EVA Protective Case

P/N:MR10

Revision

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Phone

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P/N: TM-Monitor-CN

Revision

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<http://support.flir.com>



Part number	TM-Monitor-CN
Part description	FLIR TG165 Display
Point of sale display for the FLIR TG165 Imaging IR Thermometer. This stand displays the product with a security tether on a retractable cable for in-store hands-on experience. On the front there is a button that starts a product highlight video in the local language. The stand also can be on a counter or hung on a slat wall using the included hardware. The FLIR TG165 Imaging IR Thermometer is NOT INCLUDED.	
Meter data	
Local language	Chinese
Suitable main unit	FLIR TG165
Meter physical data (assembled)	
Weight	1.497 kg (3.3 lb.)
Dimensions (H x W x L)	19.685 cm x 19.368 cm x 31.75 cm (7.75" x 7.625" x 12.5")
Shipping information	
Packaging type	Brown shipping box
Packaging contents	TG display board, slat wall bracket, locking bracket, header graphic, FLIR TG165 brochure set of 25 in the local language, international power adapter (Europe, UK, USA, China, Japan, Australia, Spain)
Packaging weight	2.72 kg (6 lb.)
Carton dimensions (H x W x L)	18.733 cm x 21.273 cm x 33.02 cm (7.375" x 8.375" x 13")
Carton weight	2.72 kg (6 lb.)
Carton dimensions	18.733 cm x 21.273 cm x 33.02 cm (7.375" x 8.375" x 13")
Carton quantity	1
EAN-13	N/A
UPC-12	N/A
Country of origin	USA



FLIR TG165 Display

P/N: TM-Monitor-CN

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Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

P/N: TM-Monitor-DE

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<http://support.flir.com>



Part number	TM-Monitor-DE
Part description	FLIR TG165 Display
Point of sale display for the FLIR TG165 Imaging IR Thermometer. This stand displays the product with a security tether on a retractable cable for in-store hands-on experience. On the front there is a button that starts a product highlight video in the local language. The stand also can be on a counter or hung on a slat wall using the included hardware. The FLIR TG165 Imaging IR Thermometer is NOT INCLUDED.	
Meter data	
Local language	German
Suitable main unit	FLIR TG165
Meter physical data (assembled)	
Weight	1.497 kg (3.3 lb.)
Dimensions (H x W x L)	19.685 cm x 19.368 cm x 31.75 cm (7.75" x 7.625" x 12.5")
Shipping information	
Packaging type	Brown shipping box
Packaging contents	TG display board, slat wall bracket, locking bracket, header graphic, FLIR TG165 brochure set of 25 in the local language, international power adapter (Europe, UK, USA, China, Japan, Australia, Spain)
Packaging weight	2.72 kg (6 lb.)
Carton dimensions (H x W x L)	18.733 cm x 21.273 cm x 33.02 cm (7.375" x 8.375" x 13")
Carton weight	2.72 kg (6 lb.)
Carton dimensions	18.733 cm x 21.273 cm x 33.02 cm (7.375" x 8.375" x 13")
Carton quantity	1
EAN-13	N/A
UPC-12	N/A
Country of origin	USA



FLIR TG165 Display

P/N: TM-Monitor-DE

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Part number	TM-Monitor
Part description	FLIR TG165 Display
Point of sale display for the FLIR TG165 Imaging IR Thermometer. This stand displays the product with a security tether on a retractable cable for in-store hands-on experience. On the front there is a button that starts a product highlight video in the local language. The stand also can be on a counter or hung on a slat wall using the included hardware. The FLIR TG165 Imaging IR Thermometer is NOT INCLUDED.	
Meter data	
Local language	English
Suitable main unit	FLIR TG165
Meter physical data (assembled)	
Weight	1.497 kg (3.3 lb.)
Dimensions (H x W x L)	19.685 cm x 19.368 cm x 31.75 cm (7.75" x 7.625" x 12.5")
Shipping information	
Packaging type	Brown shipping box
Packaging contents	TG display board, slat wall bracket, locking bracket, header graphic, FLIR TG165 brochure set of 25 in the local language, international power adapter (Europe, UK, USA, China, Japan, Australia, Spain)
Packaging weight	2.72 kg (6 lb.)
Carton dimensions (H x W x L)	18.733 cm x 21.273 cm x 33.02 cm (7.375" x 8.375" x 13")
Carton weight	2.72 kg (6 lb.)
Carton dimensions	18.733 cm x 21.273 cm x 33.02 cm (7.375" x 8.375" x 13")
Carton quantity	1
EAN-13	N/A
UPC-12	N/A
Country of origin	USA



FLIR TG165 Display

P/N: TM-Monitor

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P/N: TM-Monitor-ES

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Part number	TM-Monitor-ES
Part description	FLIR TG165 Display
Point of sale display for the FLIR TG165 Imaging IR Thermometer. This stand displays the product with a security tether on a retractable cable for in-store hands-on experience. On the front there is a button that starts a product highlight video in the local language. The stand also can be on a counter or hung on a slat wall using the included hardware. The FLIR TG165 Imaging IR Thermometer is NOT INCLUDED.	
Meter data	
Local language	Spanish
Suitable main unit	FLIR TG165
Meter physical data (assembled)	
Weight	1.497 kg (3.3 lb.)
Dimensions (H x W x L)	19.685 cm x 19.368 cm x 31.75 cm (7.75" x 7.625" x 12.5")
Shipping information	
Packaging type	Brown shipping box
Packaging contents	TG display board, slat wall bracket, locking bracket, header graphic, FLIR TG165 brochure set of 25 in the local language, international power adapter (Europe, UK, USA, China, Japan, Australia, Spain)
Packaging weight	2.72 kg (6 lb.)
Carton dimensions (H x W x L)	18.733 cm x 21.273 cm x 33.02 cm (7.375" x 8.375" x 13")
Carton weight	2.72 kg (6 lb.)
Carton dimensions	18.733 cm x 21.273 cm x 33.02 cm (7.375" x 8.375" x 13")
Carton quantity	1
EAN-13	N/A
UPC-12	N/A
Country of origin	USA



FLIR TG165 Display

P/N: TM-Monitor-ES

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Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
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Part number	TM-Monitor-FR
Part description	FLIR TG165 Display
Point of sale display for the FLIR TG165 Imaging IR Thermometer. This stand displays the product with a security tether on a retractable cable for in-store hands-on experience. On the front there is a button that starts a product highlight video in the local language. The stand also can be on a counter or hung on a slat wall using the included hardware. The FLIR TG165 Imaging IR Thermometer is NOT INCLUDED.	
Meter data	
Local language	French
Suitable main unit	FLIR TG165
Meter physical data (assembled)	
Weight	1.497 kg (3.3 lb.)
Dimensions (H x W x L)	19.685 cm x 19.368 cm x 31.75 cm (7.75" x 7.625" x 12.5")
Shipping information	
Packaging type	Brown shipping box
Packaging contents	TG display board, slat wall bracket, locking bracket, header graphic, FLIR TG165 brochure set of 25 in the local language, international power adapter (Europe, UK, USA, China, Japan, Australia, Spain)
Packaging weight	2.72 kg (6 lb.)
Carton dimensions (H x W x L)	18.733 cm x 21.273 cm x 33.02 cm (7.375" x 8.375" x 13")
Carton weight	2.72 kg (6 lb.)
Carton dimensions	18.733 cm x 21.273 cm x 33.02 cm (7.375" x 8.375" x 13")
Carton quantity	1
EAN-13	N/A
UPC-12	N/A
Country of origin	USA



FLIR TG165 Display

P/N: TM-Monitor-FR

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Technical support	
Website	http://support.flir.com
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Website

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Customer support

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Part number	TM-Monitor-IT
Part description	FLIR TG165 Display
Point of sale display for the FLIR TG165 Imaging IR Thermometer. This stand displays the product with a security tether on a retractable cable for in-store hands-on experience. On the front there is a button that starts a product highlight video in the local language. The stand also can be on a counter or hung on a slat wall using the included hardware. The FLIR TG165 Imaging IR Thermometer is NOT INCLUDED.	
Meter data	
Local language	Italian
Suitable main unit	FLIR TG165
Meter physical data (assembled)	
Weight	1.497 kg (3.3 lb.)
Dimensions (H x W x L)	19.685 cm x 19.368 cm x 31.75 cm (7.75" x 7.625" x 12.5")
Shipping information	
Packaging type	Brown shipping box
Packaging contents	TG display board, slat wall bracket, locking bracket, header graphic, FLIR TG165 brochure set of 25 in the local language, international power adapter (Europe, UK, USA, China, Japan, Australia, Spain)
Packaging weight	2.72 kg (6 lb.)
Carton dimensions (H x W x L)	18.733 cm x 21.273 cm x 33.02 cm (7.375" x 8.375" x 13")
Carton weight	2.72 kg (6 lb.)
Carton dimensions	18.733 cm x 21.273 cm x 33.02 cm (7.375" x 8.375" x 13")
Carton quantity	1
EAN-13	N/A
UPC-12	N/A
Country of origin	USA



FLIR TG165 Display

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Tariff code	9403.20.0020
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Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

P/N: TM-Monitor-JP

Revision

26727

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Website

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Part number	TM-Monitor-JP
Part description	FLIR TG165 Display
Point of sale display for the FLIR TG165 Imaging IR Thermometer. This stand displays the product with a security tether on a retractable cable for in-store hands-on experience. On the front there is a button that starts a product highlight video in the local language. The stand also can be on a counter or hung on a slat wall using the included hardware. The FLIR TG165 Imaging IR Thermometer is NOT INCLUDED.	
Meter data	
Local language	Japanese
Suitable main unit	FLIR TG165
Meter physical data (assembled)	
Weight	1.497 kg (3.3 lb.)
Dimensions (H x W x L)	19.685 cm x 19.368 cm x 31.75 cm (7.75" x 7.625" x 12.5")
Shipping information	
Packaging type	Brown shipping box
Packaging contents	TG display board, slat wall bracket, locking bracket, header graphic, FLIR TG165 brochure set of 25 in the local language, international power adapter (Europe, UK, USA, China, Japan, Australia, Spain)
Packaging weight	2.72 kg (6 lb.)
Carton dimensions (H x W x L)	18.733 cm x 21.273 cm x 33.02 cm (7.375" x 8.375" x 13")
Carton weight	2.72 kg (6 lb.)
Carton dimensions	18.733 cm x 21.273 cm x 33.02 cm (7.375" x 8.375" x 13")
Carton quantity	1
EAN-13	N/A
UPC-12	N/A
Country of origin	USA



FLIR TG165 Display

P/N: TM-Monitor-JP

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Customer support

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Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

P/N: TM-Monitor-KR

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Part number	TM-Monitor-KR
Part description	FLIR TG165 Display
Point of sale display for the FLIR TG165 Imaging IR Thermometer. This stand displays the product with a security tether on a retractable cable for in-store hands-on experience. On the front there is a button that starts a product highlight video in the local language. The stand also can be on a counter or hung on a slat wall using the included hardware. The FLIR TG165 Imaging IR Thermometer is NOT INCLUDED.	
Meter data	
Local language	Korean
Suitable main unit	FLIR TG165
Meter physical data (assembled)	
Weight	1.497 kg (3.3 lb.)
Dimensions (H x W x L)	19.685 cm x 19.368 cm x 31.75 cm (7.75" x 7.625" x 12.5")
Shipping information	
Packaging type	Brown shipping box
Packaging contents	TG display board, slat wall bracket, locking bracket, header graphic, FLIR TG165 brochure set of 25 in the local language, international power adapter (Europe, UK, USA, China, Japan, Australia, Spain)
Packaging weight	2.72 kg (6 lb.)
Carton dimensions (H x W x L)	18.733 cm x 21.273 cm x 33.02 cm (7.375" x 8.375" x 13")
Carton weight	2.72 kg (6 lb.)
Carton dimensions	18.733 cm x 21.273 cm x 33.02 cm (7.375" x 8.375" x 13")
Carton quantity	1
EAN-13	N/A
UPC-12	N/A
Country of origin	USA



FLIR TG165 Display

P/N: TM-Monitor-KR

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Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

P/N: TM-Monitor-PT

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Part number	TM-Monitor-PT
Part description	FLIR TG165 Display
Point of sale display for the FLIR TG165 Imaging IR Thermometer. This stand displays the product with a security tether on a retractable cable for in-store hands-on experience. On the front there is a button that starts a product highlight video in the local language. The stand also can be on a counter or hung on a slat wall using the included hardware. The FLIR TG165 Imaging IR Thermometer is NOT INCLUDED.	
Meter data	
Local language	Portuguese
Suitable main unit	FLIR TG165
Meter physical data (assembled)	
Weight	1.497 kg (3.3 lb.)
Dimensions (H x W x L)	19.685 cm x 19.368 cm x 31.75 cm (7.75" x 7.625" x 12.5")
Shipping information	
Packaging type	Brown shipping box
Packaging contents	TG display board, slat wall bracket, locking bracket, header graphic, FLIR TG165 brochure set of 25 in the local language, international power adapter (Europe, UK, USA, China, Japan, Australia, Spain)
Packaging weight	2.72 kg (6 lb.)
Carton dimensions (H x W x L)	18.733 cm x 21.273 cm x 33.02 cm (7.375" x 8.375" x 13")
Carton weight	2.72 kg (6 lb.)
Carton dimensions	18.733 cm x 21.273 cm x 33.02 cm (7.375" x 8.375" x 13")
Carton quantity	1
EAN-13	N/A
UPC-12	N/A
Country of origin	USA



FLIR TG165 Display

P/N: TM-Monitor-PT

Revision

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Technical support	
Website	http://support.flir.com
E-mail	TMSupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

P/N: TM-Monitor-RU

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Website

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Part number	TM-Monitor-RU
Part description	FLIR TG165 Display
Point of sale display for the FLIR TG165 Imaging IR Thermometer. This stand displays the product with a security tether on a retractable cable for in-store hands-on experience. On the front there is a button that starts a product highlight video in the local language. The stand also can be on a counter or hung on a slat wall using the included hardware. The FLIR TG165 Imaging IR Thermometer is NOT INCLUDED.	
Meter data	
Local language	Russian
Suitable main unit	FLIR TG165
Meter physical data (assembled)	
Weight	1.497 kg (3.3 lb.)
Dimensions (H x W x L)	19.685 cm x 19.368 cm x 31.75 cm (7.75" x 7.625" x 12.5")
Shipping information	
Packaging type	Brown shipping box
Packaging contents	TG display board, slat wall bracket, locking bracket, header graphic, FLIR TG165 brochure set of 25 in the local language, international power adapter (Europe, UK, USA, China, Japan, Australia, Spain)
Packaging weight	2.72 kg (6 lb.)
Carton dimensions (H x W x L)	18.733 cm x 21.273 cm x 33.02 cm (7.375" x 8.375" x 13")
Carton weight	2.72 kg (6 lb.)
Carton dimensions	18.733 cm x 21.273 cm x 33.02 cm (7.375" x 8.375" x 13")
Carton quantity	1
EAN-13	N/A
UPC-12	N/A
Country of origin	USA



FLIR TG165 Display

P/N: TM-Monitor-RU

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Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

P/N: TA12

Revision

29566

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Website

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Part number	TA12
Part description	General Purpose Accessory Case
<p>Safeguard your valuable FLIR T&M instruments with our durable EVA protective case. Stow your FLIR test and measurement gear in a FLIR durable EVA protective case to shield against dirt, dings, and harsh environmental conditions.</p> <ul style="list-style-type: none"> • Durable EVA protective case for general accessories. • Internal flap with dual pockets separates additional storage compartments. • Concealed zipper designed for dirt resistance. • Resilient nylon carry strap. • Ruggedized non-slip finish. 	

Meter data	
Suitable main unit	General case, non-specific
Warranty	1 year

Meter physical data	
Weight	0.4 kg
Dimensions (H x W x L)	17.34 cm x 9.72 cm x 26.67 cm
Material	Rubber patterned PU/Lycra (exterior), EVA with velvet finish (interior)
Color	Black

Shipping information	
Packaging type	Color box with view of product in clamshell
Packaging contents	Protective case
Packaging weight	0.6 kg
Packaging dimensions (H x W x L)	17.78 cm x 10.795 cm x 34.29 cm
Carton weight	13.56 kg
Carton dimensions	22.5" x 14.5" x 25"
Carton quantity	20
EAN-13	0793950377123
UPC-12	793950377123
Country of origin	China



General Purpose Accessory Case

P/N: TA12

Revision

29566

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Shipping information	
Tariff code	4202122020

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

P/N: MR08

Revision

30135

Last modified

2015-10-31 13:06 UTC+1

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Website

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Customer support

<http://support.flir.com>



General description	
Part number	MR08
Part name	Hammer and Wall Cavity Probe Combo
<p>The FLIR MR08 Hammer and Wall Cavity Probe Combo is ideal for both hammer probe and wall cavity applications. The hammer probe has an additional handle on the bottom to add convenience for angled, horizontal, and inverted hammer-probing needs. The bottom handle can be unscrewed and used as a wall cavity probe to measure the moisture level of insulation within the wall cavity and can also reach the inside face of an exterior wall. You can also install the impact plate for use with a hammer to punch the extended pins through drywall.</p> <p>FLIR's new insulated pins are smaller in diameter—requiring minimal force to drive the pins into a surface—resulting in less impact to the material. The sandblasted, hardened-steel pins with a single-piece design prevent bending and create an improved bonding surface for the abrasion-resistant insulation. The insulation extends all the way to the connection to the probe, so even if you drive the pins all the way into the wall cavity, the drywall will not affect the measurement.</p> <ul style="list-style-type: none"> • Insulated pins designed for increased durability. • Rubberized ergonomic grips reduce slippage. • Detachable cord with a durable BNC connection. • Pins included: 2 pairs of 2 in. pins, 1 pair of 4 in. pins, 1 pair of 6 in. pins. • Impact plate to drive pins through a drywall. 	

Meter data	
Suitable main unit	MR77, MR160, MR176
Cable length	2.45 m (8 ft.) uncoiled
Included insulated pin pairs and length	2 pairs of 2 in. (50 mm), 1 pair of 4 in. (101 mm), 1 pair of 6 in. (152 mm)
Warranty	2 years (with registration)

Meter physical data	
Weight	1.48 kg (3.25 lb.)
Dimensions (H x W x L)	4.5 cm x 5.97 cm x 56.9 cm (1.8 in. x 2.4 in. x 22.4 in.)
Material	PC-ABS, stainless steel
Color	Black

Shipping information	
Packaging type	White box with accessory color printing
Packaging contents	MR08, 2 pairs of 2 in. insulated pins, 1 pair of 4 in. insulated pins, 1 pair of 6 in. insulated pins, cable, impact plate, pin wrench, shoulder case
Packaging weight	5 kg (11.1 lb.)
Packaging dimensions (H x W x L)	15.5 cm x 18 cm x 65 cm (6.1 in. x 7.1 in. x 25.6 in.)
Master carton weight	11 kg (24.25 lb.)
Master carton dimensions (H x W x L)	18.5 cm x 36.5 cm x 67 cm (7.3 in. x 14.4 in. x 26.4 in.)



Hammer and Wall Cavity Probe Combo

P/N: MR08

Revision

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Website

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Customer support

<http://support.flir.com>

Shipping information	
Master carton quantity	2
EAN-13	0793950370087
UPC-12	793950370087
Country of origin	China
Tariff code	9025900000

Technical support	
Website	http://support.flir.com
E-mail	TMSupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Replacement parts	
MR-PINS2	2 inch pins for MR06, MR07, MR08, includes 1 pair of pins
MR-PINS2-10	2 inch pins for MR06, MR07, MR08, includes 10 pairs of pins
MR-PINS4	4 inch pins for MR06, MR07, MR08, includes 1 pair of pins
MR-PINS6	6 inch pins for MR06, MR07, MR08, includes 1 pair of pins

P/N: MR07

Revision

30134

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
Part number	MR07
Part name	Hammer Probe
<p>The FLIR MR07 Hammer Probe expands the functionality of your FLIR moisture meter by allowing you to take measurements in the subfloor through carpet, hardwood flooring, and hard materials that are difficult to penetrate with a standard pin probe.</p> <p>FLIR's new insulated pins are smaller in diameter—requiring minimal force to drive the pins into a surface—resulting in less impact to the material. The sandblasted, hardened-steel pins with a single-piece design prevent bending and create an improved bonding surface for the abrasion-resistant insulation. The insulation extends all the way to the connection to the probe, so even if you drive the pins all the way into the wall cavity, the drywall will not affect the measurement.</p> <ul style="list-style-type: none"> • Insulated pins designed for increased durability. • Rubberized ergonomic grips reduce slippage. • Detachable cord with durable BNC connection. • Pins included: 2 pairs of 2 in. pins. 	

Meter data	
Suitable main unit	MR77, MR160, MR176
Cable length	2.45 m (8 ft.) uncoiled
Included insulated pin pairs and length	2 pairs of 2 in. (50 mm)
Warranty	2 years (with registration)

Meter physical data	
Weight:	1.22 kg (1.10 lbs.)
Dimensions (H x W x L)	4.5 cm x 5.97 cm x 45.4 cm (1.8 in. x 2.4 in. x 17.9 in.)
Material	PC-ABS, stainless steel
Color	Black

Shipping information	
Packaging type	White box with accessory color printing
Packaging contents	MR07, 2 sets of 2 in. insulated pins, pin wrench, shoulder case
Packaging weight	5 kg (11.1 lb.)
Packaging dimensions (H x W x L)	15.5 cm x 18 cm x 65 cm (6.1 in. x 7.1 in. x 25.6 in.)
Master carton weight	11 kg (24.25 lb.)
Master carton dimensions (H x W x L)	18.5 cm x 36.5 cm x 67 cm (7.3 in. x 14.4 in. x 26.4 in.)
Master carton quantity	2
EAN-13	0793950370070
UPC-12	793950370070



Hammer Probe

P/N: MR07

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Shipping information	
Country of origin	China
Tariff code	9025900000

Technical support	
Website	http://support.flir.com
E-mail	TMSupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Replacement parts	
MR-PINS2	2 inch pins for MR06, MR07, MR08, includes 1 pair of pins
MR-PINS2-10	2 inch pins for MR06, MR07, MR08, includes 10 pairs of pins
MR-PINS4	4 inch pins for MR06, MR07, MR08, includes 1 pair of pins
MR-PINS6	6 inch pins for MR06, MR07, MR08, includes 1 pair of pins

P/N: MR05

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Website

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Customer support

<http://support.flir.com>



Part number	MR05
Part description	Impact Pin Moisture Probe
<p>The FLIR MR05 upgrades your FLIR moisture meter to help you easily test for moisture in challenging spots—on rough or uneven surfaces, in corners, in hard woods or high-density materials, and even, with ease, in areas without a dry reference. Made with extra-durable pins and a metallic impact plate that can withstand hammering to drive pins into the hardest materials, the FLIR MR05 lets you tackle the toughest moisture-measurement challenges all day long. Key features include six additional sets of thick and thin pins, an external pin accessory for the FLIR moisture meter mount for extended reach, a 1/4"-20 integrated wrench on the cap to replace pins, a durable BNC connector, a 2 m coiled cord, and a 2 year warranty.</p>	

Meter data	
Suitable main unit	MR77 (MR160 and MR176 coming soon)
Cable length	2.45 m (8') uncoiled
Pin length	10 mm (0.4")
Warranty	2 years (with registration)

Meter physical data	
Weight	195 g (0.43 lb)
Dimensions (H x W x L)	8.4 cm x 7.1 cm x 3.8 cm (3.3" x 2.8" x 1.5")
Material	PC-ABS
Color	Black

Shipping information	
Packaging type	Color retail packaging
Packaging contents	MR05, manual, six extra pin sets (three wide, three standard)
Packaging weight	0.4 kg (0.8 lb)
Packaging dimensions (H x W x L)	31.1 cm x 15.2 cm x 5.7 cm (12.25 x 6 x 2.2 in)
Inner shipping carton weight	1.8 kg (3.98 lb)
Inner shipping carton dimensions (H x W x L)	58.5 cm x 15.9 cm x 12.7 cm (23" x 7" x 5")
Inner shipping carton quantity	4
Master carton weight	6 kg (13.2 lb)
Master carton dimensions (H x W x L)	60.9 cm x 39.4 cm x 17.8 cm (24" x 16" x 7")



Impact Pin Moisture Probe

P/N: MR05

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Shipping information	
Master carton quantity	12
EAN-13	0793950370056
UPC-12	793950370056
Country of origin	China
Tariff code	9025900000

Technical support	
Website	http://support.flir.com
E-mail	TMSupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Accessories	
Replacement pins (standard) Part No. MR05-PINS1 (1.50–1.55 mm)	
Replacement pins (wide) Part No. MR05-PINS2 (2.26–2.35 mm)	

P/N: CS-Monitor-E

Revision

29700

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Part number	CS-Monitor-E
Interactive point of purchase display for thermal products. Display includes a thermal target consisting of three fuses, a display showing a video and an action button. The display can be used to advertise several different models (TG165, Ex, Exx).	

Assembled physical data	
Weight	11.15 lb.
Dimensions (H x W x L)	16.75" x 13.25" x 19.25"
Color	Black
Suitable units	TG165, Ex, Exx

Shipping information	
Packaging type	Brown shipping box
Packaging contents	Display stand upper and lower, deco side (2), black backing upper and lower, power supply, #8-32 x 5/8 panhead screw (14), #8 washer (8), #8-32 wing nut (4), 1/2 x 3/8 spacer (4), 4" wire tie, 8" wire tie, remote control, pegboard bracket (2), #6-32 x 1/2 flathead screw, #6 flatwasher, #6-32 kep nut, literature "Affordable Thermal Imaging" (50), instruction manual, IR spot thermometer (Extech 42500)
Packaging weight	19 lb.
Carton dimensions	20" x 16.5" x 15.8"
Carton quantity	1
EAN-13	N/A
UPC-12	N/A
Country of origin	USA
Tariff code	3929.90.9980

Technical support	
Website	http://support.flir.com
E-mail	TMSupport@flir.com
Phone	855-499-3662



Interactive Point of Purchase Display for Thermal Products

P/N: CS-Monitor-E

Revision

29700

Last modified

2015-10-16 07:11 UTC+1

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Website

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Customer support

<http://support.flir.com>

Technical support	
Repairs	repair@flir.com

P/N: TA04-KIT

Revision

38299

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2016-11-14 14:43 UTC+1

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Website

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Customer support

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General description	
Part number	TA04-KIT
Part name	Lithium Polymer Rechargeable Battery Kit
Kit description	Rechargeable battery kit for the FLIR DM284 Imaging Multimeter with extended battery life
Kit contents	The TA04-KIT includes a FLIR DM284 replacement battery door, an Li polymer rechargeable battery, an AC charging adapter with international AC inlet clips for wall outlets, and a quick start guide. The following AC inlet clips are included: North America, Europe, UK, Australia, and Korea.

Battery	
Type	Li polymer rechargeable
Output	3.7 V, 3050 mA h, 11.3 W h
Battery life	Approximately 30 hours constant use in DMM mode or 11 hours constant use in IGM mode
Charge indicator LED	Red/green

Charging adapter	
Input	100–240 V AC, 50/60 Hz, 0.4 A maximum
Output	5 V, 2000 mA

General	
Warranty	2 years limited

Certifications	
Safety standards compliance	CE EMC: EN 61326-1, EN 61000-3-2, EN 61000-3-3 CE LVD (also CB): IEC 62133:2012 US/CAN Safety: UL 1642 (cell), UL 2054 (pack)—UL File Listing MH61622 FCC: FCC Part 15B IC (Canada): ICES-003

Physical data	
Dimensions (H × W × L)	15.5 cm × 12.8 cm × 8 cm (6.1 in. × 5.1 in. × 3.2 in.)
Weight	0.5 kg (1 lb.)

Shipping information	
UPC	793950377048
EAC	0793950377048
Country of origin	Taiwan
Tariff code	8504.40.7018



TA04-KIT

P/N: TA04-KIT

Revision

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Website

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Customer support

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Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

P/N: TA50

Revision

29567

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Part number	TA50
Part description	Magnetic Hanging Strap for DM9x, IM7x Series
<ul style="list-style-type: none"> • Hang your meter on metal electrical cabinets—allowing you to focus on your testing. • Magnetic strip designed for DM9x series multimeters or any meter that accepts a 1" (25 mm) strap. • Durable nylon strap. • Securely fastens to the meter with an integrated mounting tab. • 2 year warranty. 	

Meter data	
Suitable main unit	DM93 (IM75, DM92)
Warranty	2 years

Certifications	
Certifications	N/A

Meter physical data	
Weight	0.03 kg
Dimensions (H x W x L)	29.8 cm x 3.33 cm x 0.48 cm
Material	Nylon strap, rubber tab enclosing the magnet
Color	Black

Shipping information	
Packaging type	Color box
Packaging contents	Manual, TA50
Packaging weight	0.06 kg
Packaging dimensions (H x W x L)	7.62 cm x 2.54 cm x 16.83 cm
Carton weight	4 kg
Carton dimensions	14.5" x 13" x 8"
Carton quantity	48
EAN-13	0793950377505
UPC-12	793950377505



Magnetic Hanging Strap for DM9x, IM7x Series

P/N: TA50

Revision

29567

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Shipping information	
Country of origin	Taiwan
Tariff code	9027808090

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

P/N: MR04

Revision

36663

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
Part number	MR04
Part name	Extension pole
When connected to a FLIR Moisture probe such as MR05 Impact Pin Probe or MR06 Wall Cavity Probe, the MR04 allows the user to measure moisture in wood and other building materials in difficult to reach areas from a safe distance.	

General information	
Warranty	2 years
Adjustment Angle	± 90°

Meter physical data	
Weight	466 g (1 lbs.)
Dimensions (H x W x L)	47.8 cm (18.83") collapsed; 134.3 cm (52.88") extended; x 4 cm (1.6") x 5.5 cm (2.2")
Color	Black

Shipping Information	
Packaging, type	Retail box
Packaging, Contents	MR04 Extension Pole and Instruction sheet
Each Weight	0.70 kg
Each Dimensions (H x W x L)	7.2 x 52.1 x 6.7 cm
Master Carton Weight	8.4 Kg
Master Carton Dimensions (H x W x L)	35.1 x 55.9 x 26.7 cm
Master Carton Quantity	12
EAN-13	0793950370049
UPC-12	793950370049
Country of Origin	China
Tariff Code	9025.90.0000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Accessories (optional)	
MR05	Moisture Probe
MR06	Wall Cavity Probe
MR07	Carry Case
MR08	Carry Case

P/N: MR09

Revision

36664

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Website

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Customer support

<http://support.flir.com>



General description	
Part number	MR09
Part name	Baseboard probe
When connected to a FLIR Moisture Meter (using the supplied cable), the MR09 allows the user to take relative moisture measurements behind trim pieces, baseboards, crown molding, and masonry; under tile, inside walls/ceilings, and other such places where the sensor blades can be inserted. The blades are designed to 'flex' into the measurement cavity eliminating the need to remove the obstacle that would otherwise prevent a standard pin or pinless measurement. This probe is designed to operate with FLIR Moisture Meters.	

General information	
Warranty	2 years
Measurement type	Resistive moisture measurements for reference only
Penetration depth	15 cm (6 in.) maximum

Meter physical data	
Blade Material	400-series stainless steel; thickness: 1 mm (0.04 in.)
Mounting hole for conversion plate	9.5 mm (3/8 in.) threaded
Cable length	2.45 cm (8 ft.)
Weight	494 g (1.2 lbs.)
Dimensions (H x W x L)	34 x 10 x 6 cm (13.4 x 4.0 x 2.4 in.)
Color	Black handle. Metallic color blades

Shipping information	
Packaging, type	Retail box
Packaging, Contents	MR09 Baseboard Probe, RJ45-to-BNC connecting cable, and Instruction sheet
Each Weight	0.9 Kg
Each Dimensions (H x W x L)	11.5 x 37.6 x 11.5 cm
Master Carton Weight	8.5 Kg
Master Carton Dimensions (H x W x L)	51 x 25 x 40 cm
Master Carton Quantity	8
EAN-13	0793950370094
UPC-12	793950370094
Country of Origin	China
Tariff Code	9025.90.0000

Technical support	
Website	http://support.flir.com
E-mail	TMSupport@flir.com
Phone	855-499-3662



MR09 Baseboard probe

P/N: MR09

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Technical support

Repairs

repair@flir.com

Accessories

MR07

Carry Case (optional)

MR08

Carry Case (optional)

RJ45-to-BNC Connecting Cable

Included. Connects MR09 to a Moisture meter

P/N: TA03-KIT

Revision

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Website

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Customer support

<http://support.flir.com>



Part number	TA03-KIT
Part name	NiMH Rechargeable Battery Kit
Kit description	Rechargeable battery kit for the CM174 Imaging 600A AC/DC Clamp Meter with extended battery life
Kit contents	The TA03-KIT includes 8 NiMH rechargeable batteries (2 sets), Charger and AC adapter with international AC inlet clips for wall outlets and a quick-start guide. The following AC inlet clips are included: N.America, Europe, UK, Australia, Korea.

Battery	
Type	NiMH rechargeable, AAA
Output	1.2V, 900mAh, 1.1 Wh
Battery life	Approximately 11 hours constant use in CM mode or 4 hours constant use in IGM mode

Charger and AC Adapter	
AC Adapter Input	100-240VAC, 50/60Hz, 0.4A max
AC Adapter Output	9-12VDC
Charger Input	12V DC, 0.5A
Charger Output	1.2V x 4, 250 mA DC
Charge indicator	Charging, Fully Charged, Bad/ Incorrect Battery

General	
Warranty	Two years limited

Certifications	
Safety standards compliance	CE EMC: EN 61326:2013, EN 61000-3-2:2014, EN 61000-3-3:2013 CE LVD: IEC 61010:2010 (Ed. 3) US Safety: UL 61010-1:2012 (3rd Edition), CAN Safety: CAN/CSA-C22.2 No. 61010-1:2012 (3rd Edition) FCC: FCC Part 15 Subpart B:2016

Physical data	
Dimensions (H x W x L)	15.5 x 12.8 x 8 (cm) /// 6.1 x 5.1 x 3.2 (in)
Weight	0.5 kg (1 lb)

Shipping information	
UPC	793950377314
EAC	0793950377314
Country of origin	Taiwan
Tariff code	8507.30.8090

Technical support	
Website	http://support.flir.com



NiMH Rechargeable Battery Kit

P/N: TA03-KIT

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Customer support

<http://support.flir.com>

Technical support	
E-mail	TMSupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

P/N: TA11

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Part number	TA11
Part description	Protective Case for CM7x and CM8x Series
<p>Safeguard your valuable FLIR T&M instruments with our durable EVA protective case. Stow your FLIR test and measurement gear in a FLIR durable EVA protective case to shield against dirt, dings, and harsh environmental conditions.</p> <ul style="list-style-type: none"> • Fits the FLIR CM7x and CM8x series of digital multimeters and accessories. • Custom instrument compartment protects tools from extremes. • Concealed zipper designed for dirt resistance. • Resilient nylon carry strap. • Ruggedized non-slip finish. 	

Meter data	
Suitable main unit	CM78, CM83 (CM85, CM82)
Warranty	1 year

Meter physical data	
Weight	0.4 kg
Dimensions (H x W x L)	17.34 cm x 9.72 cm x 26.67 cm
Material	Rubber patterned PU/Lycra (exterior), EVA with velvet finish (interior)
Color	Black

Shipping information	
Packaging type	Color box with view of product in clamshell
Packaging contents	Protective case
Packaging weight	0.7 kg
Packaging dimensions (H x W x L)	17.78 cm x 10.8 cm x 34.29 cm
Carton weight	15.34 kg
Carton dimensions	22.5" x 14.5" x 25"
Carton quantity	20
EAN-13	0793950377116
UPC-12	793950377116
Country of origin	China
Tariff code	4202122020



Protective Case for CM7x and CM8x Series

P/N: TA11

Revision

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Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

P/N: TA10

Revision

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Website

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Customer support

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Part number	TA10
Part description	Protective Case for DM9x and IM7x Series
<p>Safeguard your valuable FLIR T&M instruments with our durable EVA protective case. Stow your FLIR test and measurement gear in a FLIR durable EVA protective case to shield against dirt, dings, and harsh environmental conditions.</p> <ul style="list-style-type: none"> • Fits the FLIR DM9x and IM75 series of digital multimeters and accessories. • Custom instrument compartment protects tools from extremes. • Concealed zipper designed for dirt resistance. • Resilient nylon carry strap. • Ruggedized non-slip finish. 	

Meter data	
Suitable main unit	DM93, DM92 (IM75)
Warranty	1 year

Meter physical data	
Weight:	0.4 kg
Dimensions (H x W x L)	17.34 cm x 9.72 cm x 26.67 cm
Material	Rubber patterned PU/Lycra (exterior), EVA with velvet finish (interior)
Color	Black

Shipping information	
Packaging type	Color box with view of product in clamshell
Packaging contents	Protective case
Packaging weight	0.6 kg
Packaging dimensions (H x W x L)	17.78 cm x 10.80 cm x 34.29 cm
Carton weight	13.08 kg
Carton dimensions	22.5" x 14.5" x 25"
Carton quantity	20
EAN-13	0793950377109
UPC-12	793950377109
Country of origin	China
Tariff code	4202122020

Technical support	
Website	http://support.flir.com
E-mail	TMSupport@flir.com



Protective Case for DM9x and IM7x Series

P/N: TA10

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Customer support

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Technical support	
Phone	855-499-3662
Repairs	repair@flir.com

P/N: TA10-F

Revision

40622

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Website

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Customer support

<http://support.flir.com>



General description	
Part number	TA10-F
Part name	Protective Case for DM9x & TA72/74 Series
<p>Made from durable EVA rubber, the TA10-F Protective Case shields against harsh environmental conditions and damage. It is exclusively designed for use with the FLIR DM92/DM93 Industrial Digital Multimeters, the FLIR TA72/TA74 Universal Flex Current Probe Accessories, and the FLIR CM55/57 Flexible Clamp Meters with Bluetooth.</p> <ul style="list-style-type: none"> • Form-fitting instrument compartment. • Concealed zipper resists dirt. • Resilient nylon carry strap. • Rugged, non-slip finish. • 1-year warranty. 	

Meter data	
Suitable main unit	DM93, DM92 with TA74, TA72, CM55 or CM57
Warranty	1 year

Meter physical data	
Weight	0.4 kg
Dimensions (H x W x L)	17.34 cm x 9.72 cm x 26.67 cm
Material	Rubber patterned PU/Lycra (exterior), EVA with velvet finish (interior)
Color	Black

Shipping information	
Packaging type	Colored box with view of product
Packaging contents	Protective case
Packaging weight	0.6 kg
Packaging dimensions (H x W x L)	17.78 cm x 10.80 cm x 34.29 cm
Carton weight	13.08 kg
Carton dimensions (H x W x L)	57.15 cm x 36.83 cm x 63.50 cm
Carton quantity	20
EAN-13	0793950377208
UPC-12	793950377208
Country of origin	China
Tariff code	4202122020

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com



Protective Case for DM9x & TA72/74 Series

P/N: TA10-F

Revision

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Customer support

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Technical support	
Phone	855-499-3662
Repairs	repair@flir.com

P/N: TA13

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Part Number	TA13
Part Description	Protective case for TG165
Safeguard your valuable FLIR T&M instruments with our durable EVA protective case. Stow your FLIR Test and measurement gear in a FLIR durable EVA protective case to shield against dirt, dings, and harsh environmental conditions. • Fits the FLIR TG165 and accessories • Custom instrument compartment protects tools from extremes • Concealed zipper designed for dirt resistance • Resilient nylon carry strap • Ruggedized non-slip finish	

Meter Data	
Suitable Main Unit	TG165
Warranty	1 Year

Meter Physical Data	
Weight	0.4 kg (0.8 lb.)
Dimensions (H x W x L)	8.5 x 17 x 27 cm (3.4 x 6.7 x 10.6 in.)
Material	Rubber patterned PU / Lycra (Exterior), EVA with Velvet finish (Interior)
Color	Black

Shipping Information	
Packaging, type	Color box
Packaging, Contents	Protective Case
Each Weight	0.7 kg (1.5 lb.)
Each Dimensions (H x W x L)	17.8 x 10.8 x 34.3 cm (7 x 4.3 x 13.5 in.)
Master Carton Weight	15 kg (33.7 lb.)
Master Carton Dimensions	57.2 x 36.2 x 62.9 cm (22.5 x 14.5 x 25 in.)
Master Carton Quantity	20
EAN-13	0793950377130
UPC-12	793950377130
Country of Origin	China
Tariff Code	4202122020

Technical support	
Website	http://support.flir.com
E-mail	TMSupport@flir.com



Protective case for TG165

P/N: TA13

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Technical support	
Phone	855-499-3662
Repairs	repair@flir.com

P/N: MR02

Revision

26727

Last modified

2015-06-12 10:27 UTC+1

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Part number	MR02
Part description	Replaceable External Moisture Pin Probe for MR77
The FLIR MR77 moisture meter comes with an external moisture pin probe for penetrating measurements. MR02 is the replacement for the accessory included with the MR77 purchase. Additional pins are available (part number MO220-Pins).	

Specifications	
Measurement range	0–100 pin moisture
Output interface	RJ45 connection

Meter data	
Suitable Main Unit	MR77
Warranty	2 years

Meter physical data	
Weight	58.9 g (0.13 lb.)
Dimensions (H x W x L)	6.4 cm x 2.3 cm x 48.3 cm (2.5" x 0.9" x 19")
Material	ABS/PC
Color	Black

Shipping information	
Packaging type	White box
Packaging contents	MR02
Packaging dimensions (H x W x L)	8.26 cm x 4.13 cm x 12.38 cm (3.25" x 1.625" x 4.875")
Packaging weight	85 g (0.18 lb.)
EAN-13	0793950370025
UPC-12	793950370025
Country of origin	China
Tariff code	9030908822

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662



Replaceable External Moisture Pin Probe for MR77

P/N: MR02

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Technical support	
Repairs	repair@flir.com

P/N: MR01

Revision

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Website

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Customer support

<http://support.flir.com>



Part number	MR01
Part description	Replaceable T/RH Probe for MR77
Replacement temperature/relative humidity probe for the FLIR MR77 moisture meter:	<ul style="list-style-type: none"> • Metallic screw on connection. • Field replaceable. • Factory calibrated. • Protective cap.

Specifications	
Temperature range	-28 to +77°C (-18 to +170°F)
Temperature accuracy	±2°C (3.6°F)
Relative humidity range/accuracy at 20–30°C (68–86°F)	0–10 ±3 %, 10–90 ± 2.5%, 90–99 ±3%

Meter data	
Suitable main unit	MR77
Warranty	1 year

Meter physical data	
Weight:	19.8 g (0.04 lb.)
Dimensions (H × W × L)	2.5 cm × 2.5 cm × 4.4 cm (1" × 1" × 1.75")
Material	Plastic and metal
Color	Black

Shipping information	
Packaging type	Clear plastic bag
Packaging contents	MR01, protective cap enclosure
Packaging dimensions (H × W × L)	6.03 cm × 2.54 cm × 8.89 cm (2.375" × 1" × 3.5")
Packaging weight	19.8 g (0.04 lb.)
EAN-13	0793950370018
UPC-12	793950370018
Country of origin	China
Tariff code	9030908822

Technical support	
Website	http://support.flir.com
E-mail	TMSupport@flir.com
Phone	855-499-3662



Replaceable T/RH Probe for MR77

P/N: MR01

Revision

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Website

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Customer support

<http://support.flir.com>

Technical support	
Repairs	repair@flir.com

P/N: TA42

Revision

36666

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2016-06-28 09:12 UTC+1

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Website

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Customer support

<http://support.flir.com>



General description	
Part number	TA42
Part name	Belt Clip
Use your clamp meter while on-the-go with the sturdy TA42 Belt Clip. Designed for use with the FLIR CM174, CM74, and CM72 Clamp Meters. The low-profile clip securely attaches to the meter's tripod mount.	

General information	
Warranty	2 years

Meter physical data	
Screw size	¼"-20 UNC
Weight	20 g (0.71 oz.) approx.
Dimensions	44 × 93.70 mm (1.7 × 3.7 in.)
Color	Black

Shipping information	
Packaging, type	Color, retail box
Packaging, Contents	TA42 Belt Clip and Instruction sheet
Each Weight	0.2 kg
Each Dimensions (H × W × L)	16.8 × 7.8 × 2.6 cm
Master Carton Weight	5.5 kg
Master Carton Dimensions (H × W × L)	20.3 × 29.8 × 36.4 cm
Master Carton Quantity	24 (inner of 12)
EAN-13	0793950374207
UPC-12	793950374207
Country of Origin	China
Tariff Code	9030908822

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

P/N: TA52

Revision

36667

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Website

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Customer support

<http://support.flir.com>



General description	
Part number	TA52
Part name	Magnetic Meter Mount
Securely mount your FLIR Clamp Meter to an electrical panel or other magnetic surface for convenient test probe measurements. The low-profile TA52 firmly attaches to the meter's tripod mount and stores easily.	

General information	
Warranty	2 years

Meter physical data	
Screw size	¼"-20 UNC
Magnet strength	12.2–12.5 kg
Weight	45 g (1.6 oz.) approx.
Dimensions (L × W × D)	52.40 × 50.40 × 10.33 mm (2.1 × 2.0 × 0.4 in.)
Color	Black

Shipping information	
Packaging, type	Color, retail box
Packaging, Contents	TA52 Magnetic Meter Mount and Instruction sheet
Each Weight	0.2 kg
Each Dimensions (H × W × L)	16.8 × 7.8 × 2.6 cm
Master Carton Weight	5.5 kg
Master Carton Dimensions (H × W × L)	20.3 × 29.8 × 36.4 cm
Master Carton Quantity	24 (inner of 12)
EAN-13	0793950377529
UPC-12	793950377529
Country of Origin	China
Tariff Code	9030908822

Technical support	
Website	http://support.flir.com
E-mail	TMSupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

P/N: TA84

Revision

38301

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2016-11-14 14:52 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
Part number	TA84
Part name	Test Lead Storage Accessory
Kit description	Securely store your test probes on the back of your FLIR ultrameter when not in use. The FLIR TA84 firmly attaches to the multimeter's tripod mount.

General	
Warranty	2 years

Physical data	
Screw size	¼"-20 UNC
Weight	33.80 g (1.19 oz.)
Dimensions (L × W × D)	54.00 mm × 76.85 mm × 15.20 mm (2.13 in. × 3.02 in. × 0.59 in.)
Color	Black

Shipping information	
Packaging type	Color, retail box
Packaging contents	TA84 test lead storage unit with mounting screw
Weight	0.1 kg (0.2 lb.)
Dimensions (H × W × L)	2.5 cm × 7.7 cm × 16.8 cm (1.0 in. × 3.0 in. × 6.6 in.)
Master carton weight	3.8 kg (8.4 lb.)
Master carton dimensions (H × W × L)	36.5 cm × 33.5 cm × 20.5 cm (14.4 in. × 13.2 in. × 8.0 in.)
Master carton quantity	20
EAN-13	0793950377840
UPC-12	793950377840
Country of origin	Taiwan
Tariff code	9030908922

Technical support	
Website	http://support.flir.com
E-mail	TMSupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

P/N: TA60

Revision

29569

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Part number	TA60
Part description	Thermocouple Probe with Adapter
<ul style="list-style-type: none"> Type K thermocouple temperature sensor. Can be used to measure temperature with many meters. Fast responding with a wide general-purpose measurement range. Safety-shrouded banana to banana connection. 2 year warranty 	
Specifications	
Temperature range	-40 to 1200°C (-40 to 2192°F)
Meter data	
Suitable main unit	DM93, CM78 (DM92)
Warranty	2 years
Certifications	
Certifications	ITS-90 (JIS C-1602-1995 Class 2)
Meter physical data	
Weight	0.06 kg
Dimensions (H x W x L)	15.24 cm x 3.81 cm x 1.27 cm
Material	ABS plus PC, bronze (nickel plated), PVC
Color	Black and yellow
Shipping information	
Packaging type	Color box
Packaging contents	Manual, TA60
Packaging weight:	0.08 kg
Packaging dimensions (H x W x L)	7.62 cm x 2.54 cm x 16.83 cm
Carton weight	4 kg
Carton dimensions	14.5" x 13" x 8"
Carton quantity	48
EAN-13	0793950377604



Thermocouple Probe with Adapter

P/N: TA60

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Shipping information	
UPC-12	793950377604
Country of origin	Taiwan
Tariff code	9030908822

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

P/N: VSC2-58-1FM

Revision

29700

Last modified

2015-10-16 07:11 UTC+1

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Website

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Customer support

<http://support.flir.com>



Part No.	VSC2-58-1FM
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General information	
Short description	Two-channel camera, 5.8 mm diameter with 1 m probe
Compatible main unit	VS70
Integrated handset	No
Wireless capabilities	N/A
Compatible wireless handset	With optional VST (cannot switch cameras with VST)
Compatible detachable cameras	N/A
Warranty	2 years

Camera specifications	
Articulation	No
Diameter	5.8 mm
Front camera focal length	20–60 mm
Front camera field of view	56°
Front camera resolution	QVGA (320 × 240) pixels
Side camera focal length	20–60 mm
Side camera field of view	56°
Side camera resolution	QVGA (320 × 240) pixels
Probe length	1 m
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED

Power system	
Power requirements	N/A

Environmental data	
Operating temperature	–10 to 50°C (14–122°F)
Operating humidity	80% maximum
Storage temperature	–40 to 80°C (–40 to 176°F)

Physical data	
Weight	See shipping information



Two-channel camera, 5.8 mm diameter with 1 m probe

P/N: VSC2-58-1FM

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Physical data	
Dimensions (H × W × L)	See shipping information
Material	PC-ABS, rubber hand grip, nylon strap
Color	Gray, black

Shipping information	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory graphic, camera, camera attachment: anti-snag tip
Packaging weight	0.35 kg
Packaging dimensions (H × W × L)	22 cm × 19 cm × 5 cm
Carton weight	8.5 kg
Carton dimensions (H × W × L)	46 cm × 32 cm × 40 cm
Carton quantity	24
EAN-13	0793950400920
UPC-12	793950400920
Country of origin	TW
Tariff code	9013909000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com



Two-way 6 mm (0.24") articulating camera with 1 m (3.3') probe with long focus

P/N: VSA2-1

Revision

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Website

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Part No.	VSA2-1
General information	
Short description	Two-way 6 mm (0.24") articulating camera with 1 m (3.3') probe with long focus
Compatible main unit	VS70
Integrated handset	Yes
Wireless capabilities	No
Compatible wireless handset	N/A
Compatible detachable cameras	N/A
Warranty	2 years
Camera specifications	
Articulation	Two-way 240 ± 20° manual tip articulation
Diameter	6 mm
Resolution	VGA (640 × 480 pixels)
Probe length	1 m
Focal length	65 mm to infinity
Field of view	56°
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED
Power system	
Power requirements	N/A
Environmental data	
Operating temperature	-10 to 50°C (14-122°F)
Operating humidity	80% maximum
Storage temperature	-40 to 80°C (-40 to 176°F)



Two-way 6 mm (0.24") articulating camera with 1 m (3.3') probe with long focus

P/N: VSA2-1

Revision

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Physical data	
Weight	0.43 kg (0.95 lb.)
Dimensions (H x W x L)	190 mm x 70 mm x 63.5 mm (7.5" x 2.75" x 2.5")
Material	PC-ABS, rubber hand grip, nylon strap
Color	Gray, black

Shipping information	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory graphic, VSA2-1M, camera attachments: mirror, anti-snag tip, magnet
Packaging weight	1.25 kg
Packaging dimensions (H x W x L)	43 cm x 37 cm x 7.5 cm
Carton weight	6 kg
Carton dimensions (H x W x L)	45 cm x 31 cm x 39 cm
Carton quantity	4
EAN-13	0793950400784
UPC-12	793950400784
Country of origin	TW
Tariff code	9013909000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Two-way 6 mm (0.24") articulating camera with 1 m (3.3') probe with macro short focus

P/N: VSA2-1M

Revision

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Website

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Customer support

<http://support.flir.com>



Part No.	VSA2-1M
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General information	
Short description	Two-way 6 mm (0.24") articulating camera with 1 m (3.3') probe with macro short focus
Compatible main unit	VS70
Integrated handset	Yes
Wireless capabilities	No
Compatible wireless handset	N/A
Compatible detachable cameras	N/A
Warranty	2 years

Camera specifications	
Articulation	Two-way 240 ± 20° manual tip articulation
Diameter	6 mm
Resolution	VGA (640 × 480 pixels)
Probe length	1 m
Focal length	20–60 mm
Field of view	56°
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED

Power system	
Power requirements	N/A

Environmental data	
Operating temperature	-10 to 50°C (14–122°F)
Operating humidity	80% maximum
Storage temperature	-40 to 80°C (-40 to 176°F)



Two-way 6 mm (0.24") articulating camera with 1 m (3.3') probe with macro short focus

P/N: VSA2-1M

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Physical data	
Weight	0.43 kg (0.95 lb.)
Dimensions (H x W x L)	190 mm x 70 mm x 63.5 mm (7.5" x 2.75" x 2.5")
Material	PC-ABS, rubber hand grip, nylon strap
Color	Gray, black

Shipping information	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory graphic, VSA2-1M, camera attachments: mirror, anti-snag tip, magnet
Packaging weight	1.25 kg
Packaging dimensions (H x W x L)	43 cm x 37 cm x 7.5 cm
Carton weight	6 kg
Carton dimensions (H x W x L)	45 cm x 31 cm x 39 cm
Carton quantity	4
EAN-13	0793950400791
UPC-12	793950400791
Country of origin	TW
Tariff code	9013909000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Two-way 6 mm (0.24") articulating camera with 2 m (78") probe with long focus

P/N: VSA2-2

Revision

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Website

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Customer support

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Part No	VSA2-2
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General info	
Short description	Two-way 6 mm (0.24") articulating camera with 2 m (78") probe with long focus
Compatible main unit	VS70
Integrated handset	Yes
Wireless capabilities	No
Compatible wireless handset	N/A
Compatible detachable cameras	N/A
Warranty	2 years

Camera specifications	
Articulation	Two-way 240 ± 20° manual tip articulation
Diameter	6 mm
Resolution	VGA (640 × 480 pixels)
Probe length	2 m
Focal length	65 mm to infinity
Field of view	56°
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED

Power system	
Power requirements	N/A

Environmental data	
Operating temperature	-10 to 50°C (14-122°F)
Operating humidity	80% maximum
Storage temperature	-40 to 80°C (-40 to 176°F)

Physical data	
Weight	0.43 kg (0.95 lb.)
Dimensions (H × W × L)	190 mm × 70 mm × 63.5 mm (7.5" × 2.75" × 2.5")



Two-way 6 mm (0.24") articulating camera with 2 m (78") probe with long focus

P/N: VSA2-2

Revision

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Physical data	
Material	PC-ABS, rubber hand grip, nylon strap
Color	Gray, black

Shipping information	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory graphic, VSA2-2, camera attachments: mirror, anti-snag tip, magnet
Packaging weight	1.3 KG
Packaging dimensions (H x W x L)	43 cm x 37 cm x 7.5 cm
Carton weight	6.2 kg
Carton dimensions (H x W x L)	45 cm x 31 cm x 39 cm
Carton quantity	4
EAN-13	0793950400821
UPC-12	793950400821
Country of origin	TW
Tariff code	9013909000

Technical support	
Website	http://support.flir.com
E-mail	TMSupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com



Two-way 6 mm (0.24") articulating camera with 2 m (78") probe with short macro focus

P/N: VSA2-2M

Revision

29700

Last modified

2015-10-16 07:11 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Part No.	VSA2-2M
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General information	
Short description	Two-way 6 mm (0.24") articulating camera with 2 m (78") probe with short macro focus
Compatible main unit	VS70
Integrated handset	Yes
Wireless capabilities	No
Compatible wireless handset	N/A
Compatible detachable cameras	N/A
Warranty	2 years

Camera specifications	
Articulation	Two-way 240 ± 20° manual tip articulation
Diameter	6 mm
Resolution	VGA (640 × 480 pixels)
Probe length	2 m
Focal length	20–60 mm
Field of view	56°
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED

Power system	
Power requirements	N/A

Environmental data	
Operating temperature	-10 to 50° (14–122°F)
Operating humidity	80% maximum
Storage temperature	-40 to 80°C (-40 to 176°F)

Physical data	
Weight	0.43 kg (0.95 lb.)
Dimensions (H × W × L)	190 mm × 70 mm × 63.5 mm (7.5" × 2.75" × 2.5")
Material	PC-ABS, rubber hand grip, nylon strap



Two-way 6 mm (0.24") articulating camera with 2 m (78") probe with short macro focus

P/N: VSA2-2M

Revision

29700

Last modified

2015-10-16 07:11 UTC+1

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Physical data	
Color	Gray, black

Shipping information	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory graphic, VSA2-2M, camera attachments: mirror, anti-snag tip, magnet
Packaging weight	1.3 kg
Packaging dimensions (H x W x L)	43 cm x 37 cm x 7.5 cm
Carton weight	6.2 kg
Carton dimensions (H x W x L)	45 cm x 31 cm x 39 cm
Carton quantity	4
EAN-13	0793950400838
UPC-12	793950400838
Country of origin	TW
Tariff code	9013909000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

P/N: TA15

Revision

40620

Last modified

2017-02-27 15:45 UTC+1

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Website

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Customer support

<http://support.flir.com>



General description	
Part number	TA15
Part name	Universal Soft Sided Case
<p>The FLIR TA15 is a universal, multi-compartment soft-sided case designed to protect and carry your FLIR clamp meter, flex clamp accessory, test leads, or any other tool you need on the job. It is recommended for use with any FLIR clamp meter and the FLIR Universal Flex Current Probe Accessory (TA72 or TA74).</p> <ul style="list-style-type: none"> • Two large instrument compartments. • Removable hand strap. • Quick-release belt clip. • Convenient magnetic bag closure. • Label/luggage tag window. • Two durable side pockets (mesh/neoprene). • 1-year warranty. 	
Meter data	
Suitable main unit	Main compartment: CM174, CM74, CM72, CM85, CM83, CM82, CM78 Secondary compartment: TA74, TA72, CM57, CM57
Warranty	1 year
Meter physical data	
Weight	0.22 kg
Dimensions (H x W x L)	26.0 cm x 13.5 cm x 8.5 cm
Material	Black ballistic polyester (exterior), PEVA with velvet finish (interior), PET screen (ID slot)
Color	Black
Shipping information	
Packaging type	Colored box with view of product behind clear plastic cover
Packaging contents	Protective case, removable handle
Packaging weight	0.35 kg
Packaging dimensions (H x W x L)	32.7 cm x 7 cm x 13.7 cm
Carton weight	4.3 kg
Carton dimensions (H x W x L)	15.5 cm x 40 cm x 60 cm
Carton quantity	10



Universal Soft Sided Case

P/N: TA15

Revision

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Shipping information	
EAN-13	0793950377154
UPC-12	793950377154
Country of origin	China
Tariff code	4202122020

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

P/N: MR06

Revision

30133

Last modified

2015-10-31 13:02 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
Part number	MR06
Part name	Wall Cavity Probe
<p>The FLIR MR06 Wall Cavity Probe expands the functionality of your FLIR moisture meter by allowing you to easily measure insulation moisture levels within a wall cavity and the inside face of exterior walls.</p> <p>FLIR's new insulated pins are smaller in diameter—requiring minimal force to drive the pins into a surface—resulting in less impact to the material. The sandblasted, hardened-steel pins with a single-piece design prevent bending and create an improved bonding surface for the abrasion-resistant insulation. The insulation extends all the way to the connection to the probe, so even if you drive the pins all the way into the wall cavity, the drywall will not affect the measurement.</p> <ul style="list-style-type: none"> • Insulated pins designed for increased durability. • Rubberized ergonomic grips reduce slippage. • Detachable cord with a durable BNC connection. • Pins included: 1 pair of 4 in. pins, 1 pair of 6 in. pins. • Impact plate to drive pins through a drywall. 	

Meter data	
Suitable main unit	MR77, MR160, MR176
Cable length	2.45 m (8 ft.) uncoiled
Included insulated pin pairs and length	1 pair of 4 in. (101 mm), 1 pair of 6 in. (152 mm)
Warranty	2 years (with registration)

Meter physical data	
Weight:	0.50 kg (1.10 lb.)
Dimensions (H x W x L)	4.5 cm x 5.97 cm x 28.49 cm (1.8 in. x 2.4 in. x 11.2 in.)
Material	PC-ABS
Color	Black

Shipping information	
Packaging type	Color retail packaging
Packaging contents	MR06, 1 pair 4 in. insulated pins, 1 pair 6 in. insulated pins, cable, impact plate, pin wrench
Packaging weight	0.6 kg (1.3 lb.)
Packaging dimensions (H x W x L)	5.3 cm x 12.3 cm x 19.5 cm (2 in. x 4.9 in. x 7.7 in.)
Master carton weight	11 kg (24.24 lb.)
Master carton dimensions (H x W x L)	24 cm x 28 cm x 44.5 cm (9.5 in. x 11 in. x 17.5 in.)
Master carton quantity	16
EAN-13	0793950370063
UPC-12	793950370063



Wall Cavity Probe

P/N: MR06

Revision

30133

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Shipping information	
Country of origin	China
Tariff code	9025900000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Replacement parts	
MR-PINS4	4 inch pins for MR06, MR07, MR08, includes 1 pair of pins
MR-PINS6	6 inch pins for MR06, MR07, MR08, includes 1 pair of pins
MR-PINS2	2 inch pins for MR06, MR07, MR08, includes 1 pair of pins
MR-PINS2-10	2 inch pins for MR06, MR07, MR08, includes 10 pairs of pins

P/N: VST

Revision

42584

Last modified

2017-05-09 14:49 UTC+1

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Website

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Customer support

<http://support.flir.com>



Introduction	Wireless handset for the VS70 system
--------------	--------------------------------------

VST general	
ERP description	Wireless 2.4 GHz handset transmitter for the VS70 system
Compatible main unit	VS70
Compatible wireless handset	N/A
Compatible cameras and spools	VSC3.9-1FM, VSC4.1-2RM, VSC5.8-1RM, VSC5.8-2RM, VSC5.8-1R, VSC5.8-2R, VSC5.8-20M, VSC5.8-30M, VSC8.0-1R, VSC8.0-2R, VSC6.5-12S, VSC6.5-17S, VSS-20, VSS-30
Wireless frequency	2.4 GHz to main unit
Unobstructed effective range	10 m (32.5')
Video system	NTSC/PAL
Battery	3.7 V rechargeable lithium polymer
Power adapter	100–240 V input/9 V DC output
Operating temperature	–10 to 60°C (14–140°F)
Storage temperature	–40 to 80°C (–40 to 176°F)
Product dimensions	190 mm × 70 mm × 63.5 mm (7.5" × 2.75" × 2.5")
Weight (approximate)	0.43 kg (0.95 lb.)
Color	Gray, black
Warranty	2 years

Shipping information	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory printing, VST
Packaging weight	0.55 kg
Packaging dimensions (H × W × L)	23.5 cm × 7.5 cm × 7 cm
Carton weight	12 kg
Carton dimensions (H × W × L)	39.5 cm × 37 cm × 25.5 cm
Carton quantity	20
EAN-13	0793950406168



Wireless handset for the VS70 system

P/N: VST

Revision

42584

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Shipping information	
UPC-12	793950406168
Country of origin	TW
Tariff code	9013909000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Wireless four-way articulating camera, focal length 25–60 mm

P/N: VSA4-1M-W

Revision

29700

Last modified

2015-10-16 07:11 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Part number	VSA4-1M-W
The new FLIR wireless four-way articulation videoscope cameras for the VS70 allows for inspection of tight, remote, and off-center targets. Use both articulation knobs to control movement of the camera up, down, left, and right to get a complete video or picture for your inspection. These cameras come with an integrated handset that contains power and brightness adjustment buttons. Set your display down or let it hang from the neck strap while you focus on your probe orientation without worrying about cords. Also included are the handy camera tip accessories that allow viewing at a 45° angle (mirror), retrieving a metallic object (magnet), and reduce the likelihood of getting stuck (anti-snag ball).	

General information	
Compatible main unit	VS70
Integrated handset	Yes
Wireless capabilities	2.4 GHz to main unit
Wireless maximum range	30 m
Compatible wireless handset	N/A
Compatible detachable cameras	N/A
Warranty	2 years

Camera specifications	
Articulation	240 ± 20° manual tip articulation
Diameter	8 mm
Resolution	VGA (640 × 480 pixels)
Probe length	1 m
Focal length	25–60 mm
Field of view	60°
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with 10 level options
Lamp type	LED
Adjustable articulation tension	Yes, via manual knob

Power system	
Power requirements	Integrated rechargeable battery



Wireless four-way articulating camera, focal length 25–60 mm

P/N: VSA4-1M-W

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Power system	
Run time	2 hours continuous use
Auto power off	No
Power adapter	100–240 V input/5 V DC output

Environmental data	
IP rating	IP67
Drop test	2 m
Operating ambient temperature	–20 to 70°C (–4 to 158°F)
Operating humidity	95% maximum
Storage temperature:	–20 to 70°C (–4 to 158°F)
Storage humidity	80% maximum

Meter physical data	
Weight	0.88 kg (1.95 lb.)
Dimensions (H × W × L)	82.55 mm × 63.5 mm × 1168.4 mm (3.25" × 2.5" × 46")
Material	PC-ABS
Color	Gray, black

Shipping information	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory graphic, VSA4-1M-W, user guide, camera attachments: mirror, anti-snap tip, magnet
Packaging weight	1.52 kg (3.35 lb.)
Packaging dimensions (H × W × L)	69.8 mm × 361.9 mm × 431.8 mm (2.75" × 14.25" × 17")
Carton weight	7 kg (15.4 lb.)
Carton dimensions	387.4 × 444.5 × 330.2 mm (15.25" × 17.5" × 13")
Carton quantity	4
EAN-13	0793950406182
UPC-12	793950406182
Country of origin	Taiwan
Tariff code	9013909000

Accessories	
Extra camera accessories	VS80-A

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com



Wireless four-way articulating camera, focal length 60 mm to infinity

P/N: VSA4-1-W

Revision

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Website

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Customer support

<http://support.flir.com>



Part number	VSA4-1-W
Part description	
<p>The new FLIR wireless four-way articulation videoscope cameras for the VS70 allows for inspection of tight, remote, and off-center targets. Use both articulation knobs to control movement of the camera up, down, left, and right to get a complete video or picture for your inspection. These cameras come with an integrated handset that contains power and brightness adjustment buttons. Set your display down or let it hang from the neck strap while you focus on your probe orientation without worrying about cords. Also included are the handy camera tip accessories that allow viewing at a 45° angle (mirror), retrieving a metallic object (magnet), and reduce the likelihood of getting stuck (anti-snag ball).</p>	

General information	
Compatible main unit	VS70
Integrated handset	Yes
Wireless capabilities	2.4 GHz to main unit
Wireless maximum range	30 m
Compatible wireless handset	N/A
Compatible detachable cameras	N/A
Warranty	2 years

Camera specifications	
Articulation	240 ± 20° manual tip articulation
Diameter	8 mm
Resolution	VGA (640 × 480 pixels)
Probe length	1 m
Focal length	60 mm to infinity
Field of view	60°
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED
Adjustable articulation tension	Yes, via manual knob



Wireless four-way articulating camera, focal length 60 mm to infinity

P/N: VSA4-1-W

Revision

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Website

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Customer support

<http://support.flir.com>

Power system	
Power requirements	3.7 V rechargeable lithium polymer
Run time	2 hours continuous use
Auto power off	No
Power adapter	100–240 V input/5 V DC output

Environmental data	
IP rating	IP67
Drop test	2 m
Operating ambient temperature	–20 to 70°C (–4 to 158°F)
Operating humidity	95% maximum
Storage temperature	–20 to 70°C (–4 to 158°F)
Storage humidity	80% maximum

Meter physical data	
Weight:	0.88 kg (1.95 lb.)
Dimensions (H × W × L)	82.55 mm × 63.5 mm × 1168.4 mm (3.25" × 2.5" × 46")
Material	PC-ABS, rubber hand grip, nylon strap
Color	Gray, black

Shipping information	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory graphic, VSA4-1-W, user guide, camera attachments: mirror, anti-snag tip, magnet
Packaging weight	1.52 kg (3.35 lb.)
Packaging dimensions (H × W × L)	69.8 mm × 361.9 mm × 431.8 mm (2.75" × 14.25" × 17")
Carton weight	7 kg (15.4 lb.)
Carton dimensions	387.4 mm × 444.5 mm × 330.2 mm (15.25" × 17.5" × 13")
Carton quantity	4
EAN-13	0793950406199
UPC-12	793950406199
Country of origin	Taiwan
Tariff code	9013909000

Accessories	
Extra camera accessories	VS80-A

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com



Wireless two-way 6 mm (0.24") articulating camera with 1 m (3.3') probe with long focus

P/N: VSA2-1-W

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Part No.	VSA2-1-W
----------	----------

General information	
Short description	Wireless two-way 6 mm (0.24") articulating camera with 1 m (3.3') probe with long focus
Comtadible main unit	VS70
Integrated handset	Yes
Wireless capabilities	2.4 GHz to main unit
Comtadible wireless handset	N/A
Comtadible detachable cameras	N/A
Warranty	2 years

Camera specifications	
Articulation	Two-way 240 ± 20° manual tip articulation
Diameter	6 mm
Resolution	VGA (640 × 480 pixels)
Probe length	1 m
Focal length	65 mm to Infinity
Field of view	56°
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED

Power system	
Power requirements	Integrated rechargeable battery
Run time	2 hours continuous use
Auto power off	No
Power adapter	100–240 V input/5 V DC output

Environmental data	
Operating temperature	-10 to 50°C (14–122°F)



Wireless two-way 6 mm (0.24") articulating camera with 1 m (3.3') probe with long focus

P/N: VSA2-1-W

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Environmental data	
Operating humidity	80% maximum
Storage temperature	-40 to 80°C (-40 to 176°F)

Physical data	
Weight	0.43 kg (0.95 lb.)
Dimensions (H x W x L)	190 mm x 70 mm x 63.5 mm (7.5" x 2.75" x 2.5")
Material	PC-ABS, rubber hand grip, nylon strap
Color	Gray, black

Shipping information	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory graphic, VSA2-1-W, camera attachments: mirror, anti-snag tip, magnet
Packaging weight	1.3 kg
Packaging dimensions (H x W x L)	43 cm x 37 cm x 7.5 cm
Carton weight	6.2 kg
Carton dimensions (H x W x L)	45 cm x 31 cm x 39 cm
Carton quantity	4
EAN-13	0793950400814
UPC-12	793950400814
Country of origin	TW
Tariff code	9013909000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com



Wireless two-way 6 mm (0.24") articulating camera with 1 m (3.3') probe with macro short focus

P/N: VSA2-1M-W

Revision

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Website

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Customer support

<http://support.flir.com>



Part No.	VSA2-1M-W
----------	-----------

General information	
Short description	Wireless two-way 6 mm (0.24") articulating camera with 1 m (3.3') probe with macro short focus
Compatible main unit	VS70
Integrated handset	Yes
Wireless capabilities	2.4 GHz to main unit
Compatible wireless handset	N/A
Compatible detachable cameras	N/A
Warranty	2 years

Camera specifications	
Articulation	Two-way 240 ± 20° manual tip articulation
Diameter	6 mm
Resolution	VGA (640 × 480 pixels)
Probe length	1 m
Focal length	20–60 mm
Field of view	56°
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED

Power system	
Power requirements	Integrated rechargeable battery
Run time	2 hours continuous use
Auto power off	No
Power adapter	100–240 V input/5 V DC output

Environmental data	
Operating temperature	–10 to 50°C (14–122°F)
Operating humidity	80% maximum
Storage temperature	–40 to 80°C (–40 to 176°F)



Wireless two-way 6 mm (0.24") articulating camera with 1 m (3.3') probe with macro short focus

P/N: VSA2-1M-W

Revision

29700

Last modified

2015-10-16 07:11 UTC+1

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Physical data	
Weight	0.43 kg (0.95 lb.)
Dimensions (H x W x L)	190 mm x 70 mm x 63.5 mm (7.5" x 2.75" x 2.5")
Material	PC-ABS, rubber hand grip, nylon strap
Color	Gray, black

Shipping information	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory graphic, VSA2-1M-W, camera attachments: mirror, anti-snag tip, magnet
Packaging weight	1.3 kg
Packaging dimensions (H x W x L)	43 cm x 37 cm x 7.5 cm
Carton weight	6.2 kg
Carton dimensions (H x W x L)	45 cm x 31 cm x 39 cm
Carton quantity	4
EAN-13	0793950400807
UPC-12	793950400807
Country of origin	TW
Tariff code	9013909000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Wireless two-way 6 mm (0.24") articulating camera with 2 m (78") probe with long focus

P/N: VSA2-2-W

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Part No.	VSA2-2-W
----------	----------

General information	
Short description	Wireless two-way 6 mm (0.24") articulating camera with 2 m (78") probe with long focus
Compatible main unit	VS70
Integrated handset	Yes
Wireless capabilities	2.4 GHz to main unit
Compatible wireless handset	N/A
Compatible detachable cameras	N/A
Warranty	2 Yr

Camera specifications	
Articulation	two-way 240 ± 20° manual tip articulation
Diameter	6 mm
Resolution	VGA (640 × 480 pixels)
Probe length	2 m
Focal length	65 mm to infinity
Field of view	56°
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED

Power system	
Power requirements	Integrated rechargeable battery
Run time	2 hours continuous use
Auto power off	No
Power adapter	100–240 V input/5 V DC output

Environmental data	
Operating temperature	-10 to 50°C (14–122°F)



Wireless two-way 6 mm (0.24") articulating camera with 2 m (78") probe with long focus

P/N: VSA2-2-W

Revision

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Customer support

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Environmental data	
Operating humidity	80% maximum
Storage temperature	-40 to 80°C (-40 to 176°F)

Physical data	
Weight	0.43 kg (0.95 lb.)
Dimensions (H x W x L)	190 mm x 70 mm x 63.5 mm (7.5" x 2.75" x 2.5")
Material	PC-ABS, rubber hand grip, nylon strap
Color	Gray, black

Shipping information	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory graphic, VSA2-2-W, camera attachments: mirror, anti-snag tip, magnet
Packaging weight	1.4 kg
Packaging dimensions (H x W x L)	43 cm x 37 cm x 7.5 cm
Carton weight	6.5 kg
Carton dimensions (H x W x L)	45 cm x 31 cm x 39 cm
Carton quantity	4
EAN-13	0793950400852
UPC-12	793950400852
Country of origin	TW
Tariff code	9013909000

Technical support	
Website	http://support.flir.com
E-mail	TMSupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Wireless two-way 6 mm (0.24") articulating camera with 2 m (78") probe with short macro focus

P/N: VSA2-2M-W

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Part No.	VSA2-2M-W
----------	-----------

General information	
Short description	Wireless two-way 6 mm (0.24") articulating camera with 2 m (78") probe with short macro focus
Compatible main unit	VS70
Integrated handset	Yes
Wireless capabilities	2.4 GHz to main unit
Compatible wireless handset	N/A
Compatible detachable cameras	N/A
Warranty	2 years

Camera specifications	
Articulation	Two-way 240 ± 20° manual tip articulation
Diameter	6 mm
Resolution	VGA (640 × 480 pixels)
Probe length	2 m
Focal length	20–60 mm
Field of view	56°
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED

Power system	
Power requirements	Integrated rechargeable battery
Run time	2 hours continuous use
Auto power off	No
Power adapter	100–240 V input/5 V DC output



Wireless two-way 6 mm (0.24") articulating camera with 2 m (78") probe with short macro focus

P/N: VSA2-2M-W

Revision

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Website

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Customer support

<http://support.flir.com>

Environmental data	
Operating temperature	-10 to 50°C (14-122°F)
Operating humidity	80% maximum
Storage temperature	-40 to 80°C (-40 to 176°F)

Physical data	
Weight	0.43 kg (0.95 lb.)
Dimensions (H x W x L)	190 mm x 70 mm x 63.5 mm (7.5" x 2.75" x 2.5")
Material	PC-ABS, rubber hand grip, nylon strap
Color	Gray, black

Shipping information	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory graphic, camera, camera attachments: mirror, anti-snap tip, magnet
Packaging weight	1.4 kg
Packaging dimensions (H x W x L)	43 cm x 37 cm x 7.5 cm
Carton weight	6.5 kg
Carton dimensions (H x W x L)	45 cm x 31 cm x 39 cm
Carton quantity	4
EAN-13	0793950400845
UPC-12	793950400845
Country of origin	TW
Tariff code	9013909000

Technical support	
Website	http://support.flir.com
E-mail	TMSupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

P/N: VP52-standonly

Revision

29700

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Website

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Customer support

<http://support.flir.com>



Part Name	VP52 Counter Stand
Part No	VP52-standonly
Description	Counter Stand for 10 VP52, Units not included on stand, Can be used for counter or wall display, some assembly required
Includes	Color Back board, Base with retractable cord and functioning VP52 (batteries included), Four push in snap screws

Product Info	
Assembled Dimensions (L x W x H)	394 x 305 x 486 mm (15.5 x 12 x 19.125 in.)

Shipping Info	
Weights	2.27 kg (5 lb.)
Dimensions (L x W x H)	508 x 305 x 152 mm (20 x 12 x 6 in.)
Carton Quantities	1

Technical support	
Website	http://support.flir.com
E-mail	TMSupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Accessories for FLIR T5xx series

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P/N: T199300ACC

Revision

46348

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
High capacity battery for the IR camera.	

Power system	
Battery type	Rechargeable Li-ion battery
Battery voltage	3.6 V
Battery operating time	4 hours at 25°C (68°F) with typical use
Charging time (using two-bay charger)	3.5 h to 90% capacity

Environmental data	

Physical data	
Weight	195 g (6.89 oz.)
Size (L x W x H)	59 x 66 x 94 mm (2.3 x 2.6 x 3.7 in.)

Shipping information	
Packaging, type	Cardboard box
List of contents	• Battery
Packaging, weight	
Packaging, size	220 x 160 x 75 mm (8.7 x 6.3 x 2.9 in.)
EAN-13	4743254003378
UPC-12	845188014797
Country of origin	Sweden and/or Estonia

Compatible with the following products:

- 79301-0101; FLIR T530 14°
- 79302-0101; FLIR T530 24°
- 79304-0101; FLIR T530 24° + 14°
- 79306-0101; FLIR T530 24° + 14° & 42°
- 79305-0101; FLIR T530 24° + 42°
- 79303-0101; FLIR T530 42°
- 79307-0101; FLIR T530 42° + 14°
- 79301-0201; FLIR T540 14°
- 79302-0201; FLIR T540 24°
- 79304-0201; FLIR T540 24° + 14°
- 79306-0201; FLIR T540 24° + 14° & 42°
- 79305-0201; FLIR T540 24° + 42°
- 79303-0201; FLIR T540 42°
- 79307-0201; FLIR T540 42° + 14°

P/N: T199610

Revision

46352

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
Stand-alone two-bay battery charger. Requires the Power supply for battery charger, T911633ACC.	
Power system	
Power	12 VDC input
Physical data	
Weight	
Size (L x W x H)	146 x 74 x 96 mm (5.7 x 2.9 x 3.8 in.)
Shipping information	
Packaging, type	Cardboard box
List of contents	• Stand-alone two-bay battery charger
Packaging, weight	
Packaging, size	220 x 160 x 75 mm (8.7 x 6.3 x 2.9 in.)
EAN-13	4743254003361
UPC-12	845188014780
Country of origin	Sweden and/or Estonia

Compatible with the following products:

- 79301-0101; FLIR T530 14°
- 79302-0101; FLIR T530 24°
- 79304-0101; FLIR T530 24° + 14°
- 79306-0101; FLIR T530 24° + 14° & 42°
- 79305-0101; FLIR T530 24° + 42°
- 79303-0101; FLIR T530 42°
- 79307-0101; FLIR T530 42° + 14°
- 79301-0201; FLIR T540 14°
- 79302-0201; FLIR T540 24°
- 79304-0201; FLIR T540 24° + 14°
- 79306-0201; FLIR T540 24° + 14° & 42°
- 79305-0201; FLIR T540 24° + 42°
- 79303-0201; FLIR T540 42°
- 79307-0201; FLIR T540 42° + 14°

P/N: T198583

Revision

42932

Last modified

2017-05-30 15:32 UTC+1

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Website

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Customer support

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General description

Compared to FLIR Tools, FLIR Tools+ has the following features:

- Radiometric Panorama incl. MSX
- Radiometric IR Video Recording
- Advanced Reporting

FLIR Tools/Tools+ is a software suite specifically designed to provide an easy way to update your camera and create inspection reports.

FLIR Tools+ main features:

- Manual IR/Visual Image Grouping
- Radiometric Panorama incl. MSX
- Radiometric IR Video Recording
- Advanced Reporting for Microsoft Office.
- Report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR).
- Import images from your camera to your computer.
- Apply filters when searching for images.
- Search all text in images and text annotations.
- Store the five latest search criteria's.
- Lay out, move, and resize measurement tools on any infrared image.
- Create PDF imagesheets of any images of your choice.
- Add headers, footers, and logos to imagesheets.
- Create PDF reports for images of your choice.
- Add headers, footers, and logos to reports.
- Report editor (report page preview and snap to grid).
- Sort function (by date, groups sorted by path, and groups sorted by date).
- Browse and purchase infrared cameras, software, and accessories in the webshop.
- Software localized to 21 languages.
- Support for MSX (Multi-Spectral Dynamic Imaging) Images
- Support for Sketch Images on both IR and Visual with toggling ON/OFF feature.
- Support for Same FOV (Field of View Match)
- Display of Compass Information in Edit and in Report.
- Display of GPS Information in Edit and in Report.
- Camera update (applies to FLIR Ex, Kxx, Exx and T6xx series only).

Download

Download a 30-day evaluation version here:

<http://support.flir.com/toolsplus>

Release notes

Version	5.9
New features in version 5.9	<ul style="list-style-type: none"> • Additional trigger options for FLIR K53, K55, and K65 cameras • Added user account registration and login • New Pleora version support • Various bug fixes
New features in version 5.7	<ul style="list-style-type: none"> • Five modes supported for K65, K55, and K53 cameras. • Support for Kx3 cameras. • Auto gain mode now available for K2 cameras. • Various bug fixes.



FLIR Tools+ (download card incl. license key)

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Website

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<http://support.flir.com>

Release notes	
New features in version 5.5	<ul style="list-style-type: none"> Added support for Microsoft Office 2016 (32-bit) for the FLIR Word Reporting module. Various bug fixes.
New features in version 5.3	<ul style="list-style-type: none"> Support for the FLIR T1020 and T1040 cameras for import, edit, report creation, and camera update. Support for the FLIR K2 camera for configuration, video streaming, and camera update. Delta (difference) readings are now on one line instead of two.
New features in version 5.2.1	<ul style="list-style-type: none"> Option added to change color distribution mode (histogram equalization, signal linear, temperature linear). "Rapid Report" shortcuts added to simplify reporting using a drag-and-drop operation. Option added to extract photos at their full field of view. Two new templates for express export added (Photo_Large and Thermalx1 Photox2). Various bug fixes.
New features in version 5.2	<ul style="list-style-type: none"> Support for auto-adjusting a region. Support for zoom. Express Microsoft Word reporting (*.docx). Various bug fixes.
New features in version 5.1	<ul style="list-style-type: none"> Improved import performance. Added support for video recording settings for FLIR Kxx series. Added support for importing video files from FLIR Kxx series. Added support for FLIR C2 camera. Various bug fixes.
New features in version 5.0	<ul style="list-style-type: none"> Local object parameters for measurement tools. Save a report in-process with the ability to edit at a later time. Pull-down menus for text annotations. Variable playback speed for recordings. Show or hide min./max./avg. temperature, and hot/cold markers, for areas and lines. Smoother display for low-resolution images. UltraMax image enhancement. Dropping support for Windows XP. Various bug fixes.
New features in version 4.1	<ul style="list-style-type: none"> Previous/next in Edit mode. Clone in the Library. Extract visual photo from a multispectral image. Import *.mp4, *.seq, and *.csq files from the camera. Playback/edit *.seq and *.csq files. Scale enhancement for the FLIR GF3xx series. Auto resize of thumbnails during importing for the FLIR T6xx series. Grouping/ungrouping now added. Various bug fixes.
New features in version 4.0	<ul style="list-style-type: none"> Support for the new FLIR Ex and Exx series cameras. Interactive quick start guide when connecting a FLIR camera. Improved library view. Support for multispectral images. Support for auto-oriented images. Various bug fixes.
New features in version 3.1	<ul style="list-style-type: none"> Support for FLIR K series cameras. Interactive quick start guide when connecting a FLIR K series camera. Live image streaming from FLIR K series cameras. PC-side configuration of FLIR K series cameras. New report templates for DC images only added. Various bug fixes.



FLIR Tools+ (download card incl. license key)

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>**Release notes**

New features in version 3.0

- Add folder to library.
- Support for isotherms and color alarms
- Image description for both IR and DC.
- Export functionality (*.avi, *.csv).
- Microsoft Windows 8 (32- and 64-bit)
- New web installer
- Radiometric panorama with MSX images.
- Advanced reports.
- Manual grouping/ungrouping of images.
- Various bug fixes.

New features in version 2.2

- Camera tab:
 - Logging feature in Camera Tab
 - Recording and playback of SEQ files.
- Various bug fixes.

Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• FLIR Tools+ (download card incl. license key)
Packaging, weight	0.059 kg (0.13 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	73325585378 4743254001442 (Estonia plant)
UPC-12	845188005580
Country of origin	Sweden

System requirements

Operating system

- Windows 7, 32-bit
- Windows 7, 64-bit
- Windows 8, 32-bit
- Windows 8, 64-bit
- Windows 10, 32-bit
- Windows 10, 64-bit

Software requirements

- Office 2007 (32-bit)
- Office 2010 (32-bit)
- Office 2013 (32-bit)
- Office 2016 (32-bit)

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)



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<http://support.flir.com>

- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 73309-0102; FLIR A35 f=9 mm with SC kit
- 83225-0101; FLIR A35 FOV 13 (60 Hz, ver. 2017)
- 83213-0102; FLIR A35 FOV 25 (60 Hz, ver. 2017)
- 83207-0102; FLIR A35 FOV 45 (60 Hz, ver. 2017)
- 83250-0101; FLIR A35 FOV 6.5 (60 Hz, ver. 2017)
- 83209-0102; FLIR A35 FOV 69 (30 Hz, ver. 2017)
- 73413-0102; FLIR A65 f=13 mm with SC kit (30 Hz)
- 73513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 75050-0101; FLIR A65 FOV 12.4 (30 Hz, ver. 2016)
- 75025-0101; FLIR A65 FOV 25 (30 Hz, ver. 2016)
- 75013-0101; FLIR A65 FOV 45 (30 Hz, ver. 2016)
- 75010-0101; FLIR A65 FOV 6.2 (30 Hz, ver. 2016)
- 75007-0101; FLIR A65 FOV 90 (30 Hz, ver. 2016)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 84502-0201; FLIR E53 24°
- 78501-0101; FLIR E75 14°
- 78502-0101; FLIR E75 24°
- 78504-0101; FLIR E75 24° + 14°
- 78506-0101; FLIR E75 24° + 14° & 42°
- 78505-0101; FLIR E75 24° + 42°
- 78503-0101; FLIR E75 42°
- 78507-0101; FLIR E75 42° + 14°
- 78501-0201; FLIR E85 14°
- 78502-0201; FLIR E85 24°
- 78504-0201; FLIR E85 24° + 14°
- 78506-0201; FLIR E85 24° + 14° & 42°
- 78505-0201; FLIR E85 24° + 42°
- 78503-0201; FLIR E85 42°
- 78507-0201; FLIR E85 42° + 14°
- 78501-0301; FLIR E95 14°
- 78502-0301; FLIR E95 24°
- 78504-0301; FLIR E95 24° + 14°
- 78506-0301; FLIR E95 24° + 14° & 42°
- 78505-0301; FLIR E95 24° + 42°
- 78503-0301; FLIR E95 42°
- 78507-0301; FLIR E95 42° + 14°
- 63901-0101; FLIR E4
- 63906-0604; FLIR E4 (incl. Wi-Fi)
- 63905-0501; FLIR E5
- 63909-0904; FLIR E5 (incl. Wi-Fi)
- 63902-0202; FLIR E6
- 63907-0704; FLIR E6 (incl. Wi-Fi)
- 63903-0303; FLIR E8
- 63908-0805; FLIR E8 (incl. Wi-Fi)
- 79301-0101; FLIR T530 14°
- 79302-0101; FLIR T530 24°
- 79304-0101; FLIR T530 24° + 14°
- 79306-0101; FLIR T530 24° + 14° & 42°
- 79305-0101; FLIR T530 24° + 42°
- 79303-0101; FLIR T530 42°
- 79307-0101; FLIR T530 42° + 14°
- 79301-0201; FLIR T540 14°
- 79302-0201; FLIR T540 24°
- 79304-0201; FLIR T540 24° + 14°



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 79306-0201; FLIR T540 24° + 14° & 42°
- 79305-0201; FLIR T540 24° + 42°
- 79303-0201; FLIR T540 42°
- 79307-0201; FLIR T540 42° + 14°
- 72001-0101; FLIR C2
- 72002-0202; FLIR C2 Educational Kit
- 72003-0303; FLIR C3 (incl. Wi-Fi)
- 72003-0404; FLIR C3 (incl. Wi-Fi) Educational Kit

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
Hand strap and neck strap to carry the camera.	
Physical data	
Material	Webbing, Nappa leather
Color	Black
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> Hand strap Neck strap
Packaging, weight	
Packaging, size	155 × 59 × 69 mm (6.1 × 2.3 × 2.7 in.)
EAN-13	4743254003385
UPC-12	845188014803
Country of origin	Sweden and/or Estonia

Compatible with the following products:

- 79301-0101; FLIR T530 14°
- 79302-0101; FLIR T530 24°
- 79304-0101; FLIR T530 24° + 14°
- 79306-0101; FLIR T530 24° + 14° & 42°
- 79305-0101; FLIR T530 24° + 42°
- 79303-0101; FLIR T530 42°
- 79307-0101; FLIR T530 42° + 14°
- 79301-0201; FLIR T540 14°
- 79302-0201; FLIR T540 24°
- 79304-0201; FLIR T540 24° + 14°
- 79306-0201; FLIR T540 24° + 14° & 42°
- 79305-0201; FLIR T540 24° + 42°
- 79303-0201; FLIR T540 42°
- 79307-0201; FLIR T540 42° + 14°

P/N: T199347ACC

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Website

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Customer support

<http://support.flir.com>



General description

Rugged, watertight plastic shipping case for FLIR T5xx series. Holds all items neatly and securely.

Physical data

Weight	2.5 kg (5.5 lb.)
Size (L x W x H)	484 x 345 x 178 mm (19.1 x 13.6 x 7.0 in.)
Material	PP with Rubber Blend (Polypropylene)
Color	Black

Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> Hard transport case
Packaging, weight	
Packaging, size	495 x 370 x 192 mm (19.5 x 14.6 x 7.6 in.)
EAN-13	4743254003392
UPC-12	845188014810
Country of origin	Sweden and/or Estonia

Compatible with the following products:

P/N: T199616

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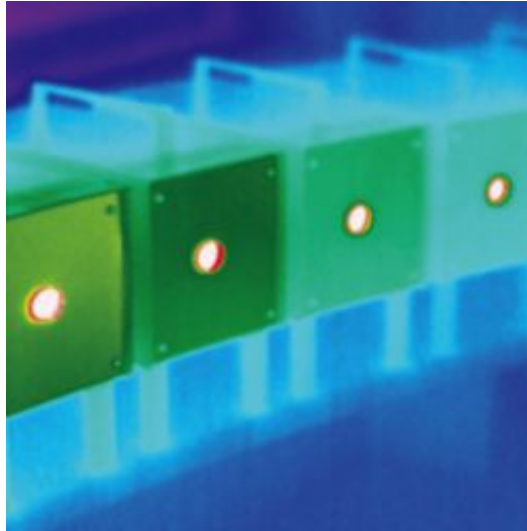
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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

For high temperature applications the camera can be calibrated for high temperature ranges.

Measurement

Temperature range	+300 to +1200°C (+572 to +2192°F)
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Compatible with the following products:

- 79301-0101; FLIR T530 14°
- 79302-0101; FLIR T530 24°
- 79304-0101; FLIR T530 24° + 14°
- 79306-0101; FLIR T530 24° + 14° & 42°
- 79305-0101; FLIR T530 24° + 42°
- 79303-0101; FLIR T530 42°
- 79307-0101; FLIR T530 42° + 14°

P/N: T199609

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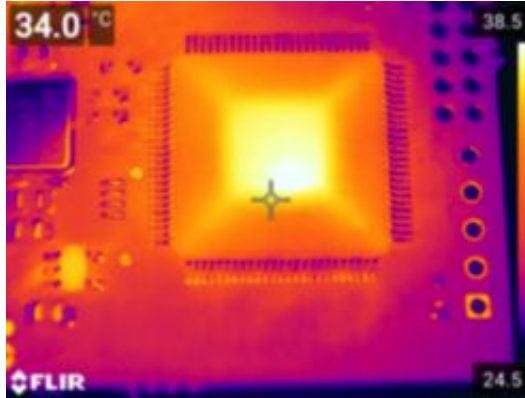
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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

Macro mode software option, 71 μm (T540) or 103 μm (T530) for 24° lenses.

Imaging and optical data

Field of view (FOV) @ 60 mm (2.36 in.)	32 × 24 mm; 40 mm diagonally (1.26 × 0.94 in.; 1.57 in. diagonally)
Magnifying factor	4.2×
Focus range	<ul style="list-style-type: none"> Near focus: 60 mm (2.36 in.) Far focus: 300 mm (11.81 in.)¹
Depth of field	0.9 mm
Focal length	17 mm (0.67 in.)
Spatial resolution (IFOV)	<ul style="list-style-type: none"> 71 μm (T540) 103 μm (T530)
Lens identification	Automatic
F-number	1.3

Compatible with the following products:

- 79301-0101; FLIR T530 14°
- 79302-0101; FLIR T530 24°
- 79304-0101; FLIR T530 24° + 14°
- 79306-0101; FLIR T530 24° + 14° & 42°
- 79305-0101; FLIR T530 24° + 42°
- 79303-0101; FLIR T530 42°
- 79307-0101; FLIR T530 42° + 14°
- 79301-0201; FLIR T540 14°
- 79302-0201; FLIR T540 24°
- 79304-0201; FLIR T540 24° + 14°
- 79306-0201; FLIR T540 24° + 14° & 42°
- 79305-0201; FLIR T540 24° + 42°
- 79303-0201; FLIR T540 42°
- 79307-0201; FLIR T540 42° + 14°

1. IFOV 71/103 μm and magnifying factor 4.2× not applicable.

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

Pouch, with shoulder strap, to carry and protect the camera, made in durable nylon. The pouch can be used together with the tool belt.

Physical data

Weight	0.27 kg (0.60 lb.), excluding shoulder strap
Size (L x W x H)	200 x 110 x 185 mm (7.9 x 4.3 x 7.3 in.), excluding shoulder strap
Color	black

Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> Pouch Strap
Packaging, weight	0.625 kg (1.38 lb.)
Packaging, size	303 x 206 x 128 mm (11.9 x 8.1 x 5.0 in.)
EAN-13	7332558004500
UPC-12	845188004477
Country of origin	Sweden

Compatible with the following products:

- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)

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Website

<http://www.flir.com>

Customer support

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- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 79301-0101; FLIR T530 14°
- 79302-0101; FLIR T530 24°
- 79304-0101; FLIR T530 24° + 14°
- 79306-0101; FLIR T530 24° + 14° & 42°
- 79305-0101; FLIR T530 24° + 42°
- 79303-0101; FLIR T530 42°
- 79307-0101; FLIR T530 42° + 14°
- 79301-0201; FLIR T540 14°
- 79302-0201; FLIR T540 24°
- 79304-0201; FLIR T540 24° + 14°
- 79306-0201; FLIR T540 24° + 14° & 42°
- 79305-0201; FLIR T540 24° + 42°
- 79303-0201; FLIR T540 42°
- 79307-0201; FLIR T540 42° + 14°



Power supply for battery charger

P/N: T911633ACC

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

General description	
Power supply, with multi plugs.	

Power system	
AC operation	100–240 VAC, 50/60 Hz, 12 VDC out
Power	3000 mA at 12 VDC

Physical data	
Size (L x W x H)	90 x 54 x 38 mm (3.5 x 2.1 x 1.5 in.)
Cable length	1.2 m (3.9 ft.)

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Power supply including cable• EU plug• UK plug• US plug• AU plug
Packaging, weight	280 g (0.62 lb.)
Packaging, size	150 x 70 x 70 mm (5.9 x 2.8 x 2.8 in.)
EAN-13	4743254003194
UPC-12	845188014599
Country of origin	Estonia

Compatible with the following products:

- 84502-0201; FLIR E53 24°
- 78501-0101; FLIR E75 14°
- 78502-0101; FLIR E75 24°
- 78504-0101; FLIR E75 24° + 14°
- 78506-0101; FLIR E75 24° + 14° & 42°
- 78505-0101; FLIR E75 24° + 42°
- 78503-0101; FLIR E75 42°
- 78507-0101; FLIR E75 42° + 14°
- 78501-0201; FLIR E85 14°
- 78502-0201; FLIR E85 24°
- 78504-0201; FLIR E85 24° + 14°
- 78506-0201; FLIR E85 24° + 14° & 42°
- 78505-0201; FLIR E85 24° + 42°
- 78503-0201; FLIR E85 42°
- 78507-0201; FLIR E85 42° + 14°
- 78501-0301; FLIR E95 14°
- 78502-0301; FLIR E95 24°
- 78504-0301; FLIR E95 24° + 14°
- 78506-0301; FLIR E95 24° + 14° & 42°
- 78505-0301; FLIR E95 24° + 42°
- 78503-0301; FLIR E95 42°
- 79301-0101; FLIR T530 14°
- 79302-0101; FLIR T530 24°
- 79304-0101; FLIR T530 24° + 14°
- 79306-0101; FLIR T530 24° + 14° & 42°
- 79305-0101; FLIR T530 24° + 42°
- 79303-0101; FLIR T530 42°
- 79307-0101; FLIR T530 42° + 14°
- 79301-0201; FLIR T540 14°
- 79302-0201; FLIR T540 24°
- 79304-0201; FLIR T540 24° + 14°
- 79306-0201; FLIR T540 24° + 14° & 42°
- 79305-0201; FLIR T540 24° + 42°
- 79303-0201; FLIR T540 42°
- 79307-0201; FLIR T540 42° + 14°

P/N: T911630ACC

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
Power supply, including multiple plugs, to charge the battery when it is inside the camera.	
Power system	
AC operation	100–240 VAC, 50/60 Hz, 5 VDC out
Power	3 A at 5 VDC
Physical data	
Size (L × W × H)	58 × 38 × 31 mm (2.3 × 1.5 × 1.2 in.)
Cable length	1.0 m (3.3 ft.)
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Power supply including cable • EU plug • UK plug • US plug • AU plug • Korea plug
Packaging, weight	180 g (0.40 lb.)
Packaging, size	110 × 70 × 63 mm (4.3 × 2.8 × 2.5 in.)
EAN-13	4743254003163
UPC-12	845188014568
Country of origin	Estonia

Compatible with the following products:

- 84502-0201; FLIR E53 24°
- 78501-0101; FLIR E75 14°
- 78502-0101; FLIR E75 24°
- 78504-0101; FLIR E75 24° + 14°
- 78506-0101; FLIR E75 24° + 14° & 42°
- 78505-0101; FLIR E75 24° + 42°
- 78503-0101; FLIR E75 42°
- 78507-0101; FLIR E75 42° + 14°
- 78501-0201; FLIR E85 14°
- 78502-0201; FLIR E85 24°
- 78504-0201; FLIR E85 24° + 14°
- 78506-0201; FLIR E85 24° + 14° & 42°
- 78505-0201; FLIR E85 24° + 42°
- 78503-0201; FLIR E85 42°
- 78507-0201; FLIR E85 42° + 14°
- 78501-0301; FLIR E95 14°
- 78502-0301; FLIR E95 24°
- 78504-0301; FLIR E95 24° + 14°
- 78506-0301; FLIR E95 24° + 14° & 42°
- 78505-0301; FLIR E95 24° + 42°
- 78503-0301; FLIR E95 42°
- 79301-0101; FLIR T530 14°
- 79302-0101; FLIR T530 24°



Power supply, 15 W/3 A

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Website

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Customer support

<http://support.flir.com>

- 79304-0101; FLIR T530 24° + 14°
- 79306-0101; FLIR T530 24° + 14° & 42°
- 79305-0101; FLIR T530 24° + 42°
- 79303-0101; FLIR T530 42°
- 79307-0101; FLIR T530 42° + 14°
- 79301-0201; FLIR T540 14°
- 79302-0201; FLIR T540 24°
- 79304-0201; FLIR T540 24° + 14°
- 79306-0201; FLIR T540 24° + 14° & 42°
- 79305-0201; FLIR T540 24° + 42°
- 79303-0201; FLIR T540 42°
- 79307-0201; FLIR T540 42° + 14°

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Website

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Customer support

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General description

This cable is used to connect the infrared camera with a computer, using the USB protocol.

Physical data

Weight	28 g (0.99 oz.)
Cable length	1.0 m (3.3 ft.)
Connector	USB 2.0 A to USB Type-C

Shipping information

Packaging, type	Cardboard box
List of contents	• USB 2.0 A to USB Type-C cable
Packaging, weight	
Packaging, size	155 × 59 × 69 mm (6.1 × 2.3 × 2.7 in.)
EAN-13	4743254003132
UPC-12	845188014537
Country of origin	Estonia

Compatible with the following products:

- 84502-0201; FLIR E53 24°
- 78501-0101; FLIR E75 14°
- 78502-0101; FLIR E75 24°
- 78504-0101; FLIR E75 24° + 14°
- 78506-0101; FLIR E75 24° + 14° & 42°
- 78505-0101; FLIR E75 24° + 42°
- 78503-0101; FLIR E75 42°
- 78507-0101; FLIR E75 42° + 14°
- 78501-0201; FLIR E85 14°
- 78502-0201; FLIR E85 24°
- 78504-0201; FLIR E85 24° + 14°
- 78506-0201; FLIR E85 24° + 14° & 42°
- 78505-0201; FLIR E85 24° + 42°
- 78503-0201; FLIR E85 42°
- 78507-0201; FLIR E85 42° + 14°
- 78501-0301; FLIR E95 14°
- 78502-0301; FLIR E95 24°
- 78504-0301; FLIR E95 24° + 14°
- 78506-0301; FLIR E95 24° + 14° & 42°
- 78505-0301; FLIR E95 24° + 42°
- 78503-0301; FLIR E95 42°
- 79301-0101; FLIR T530 14°
- 79302-0101; FLIR T530 24°
- 79304-0101; FLIR T530 24° + 14°
- 79306-0101; FLIR T530 24° + 14° & 42°
- 79305-0101; FLIR T530 24° + 42°
- 79303-0101; FLIR T530 42°
- 79307-0101; FLIR T530 42° + 14°
- 79301-0201; FLIR T540 14°
- 79302-0201; FLIR T540 24°
- 79304-0201; FLIR T540 24° + 14°
- 79306-0201; FLIR T540 24° + 14° & 42°
- 79305-0201; FLIR T540 24° + 42°
- 79303-0201; FLIR T540 42°
- 79307-0201; FLIR T540 42° + 14°

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Website

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Customer support

<http://support.flir.com>



General description	
This adapter is used to connect the infrared camera with a HDMI monitor. Requires a standard HDMI cable (not supplied by FLIR).	

Physical data	
Weight	25 g (0.88 oz.)
Connector	USB Type-C male to HDMI female, standard specification UH311

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> USB Type-C to HDMI adapter
Packaging, weight	
Packaging, size	155 × 59 × 69 mm (6.1 × 2.3 × 2.7 in.)
EAN-13	4743254003149
UPC-12	845188014544
Country of origin	Estonia

Compatible with the following products:

- 84502-0201; FLIR E53 24°
- 78501-0101; FLIR E75 14°
- 78502-0101; FLIR E75 24°
- 78504-0101; FLIR E75 24° + 14°
- 78506-0101; FLIR E75 24° + 14° & 42°
- 78505-0101; FLIR E75 24° + 42°
- 78503-0101; FLIR E75 42°
- 78507-0101; FLIR E75 42° + 14°
- 78501-0201; FLIR E85 14°
- 78502-0201; FLIR E85 24°
- 78504-0201; FLIR E85 24° + 14°
- 78506-0201; FLIR E85 24° + 14° & 42°
- 78505-0201; FLIR E85 24° + 42°
- 78503-0201; FLIR E85 42°
- 78507-0201; FLIR E85 42° + 14°
- 78501-0301; FLIR E95 14°
- 78502-0301; FLIR E95 24°
- 78504-0301; FLIR E95 24° + 14°
- 78506-0301; FLIR E95 24° + 14° & 42°
- 78505-0301; FLIR E95 24° + 42°
- 78503-0301; FLIR E95 42°
- 79301-0101; FLIR T530 14°
- 79302-0101; FLIR T530 24°
- 79304-0101; FLIR T530 24° + 14°
- 79306-0101; FLIR T530 24° + 14° & 42°
- 79305-0101; FLIR T530 24° + 42°
- 79303-0101; FLIR T530 42°
- 79307-0101; FLIR T530 42° + 14°
- 79301-0201; FLIR T540 14°
- 79302-0201; FLIR T540 24°
- 79304-0201; FLIR T540 24° + 14°
- 79306-0201; FLIR T540 24° + 14° & 42°
- 79305-0201; FLIR T540 24° + 42°
- 79303-0201; FLIR T540 42°



USB Type-C to HDMI adapter, standard specification UH311

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- 79307-0201; FLIR T540 42° + 14°

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Website

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Customer support

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General description

This cable is used to connect the infrared camera with a computer, using the USB protocol. The cable can also be used with the Car adapter, T911709ACC.

Physical data

Weight	34 g (1.2 oz.)
Cable length	0.9 m (3 ft.)
Connector	USB Type-C to USB Type-C (USB 2.0 standard)

Shipping information

Packaging, type	Cardboard box
List of contents	• USB Type-C to USB Type-C cable
Packaging, weight	
Packaging, size	155 × 59 × 69 mm (6.1 × 2.3 × 2.7 in.)
EAN-13	4743254003156
UPC-12	845188014551
Country of origin	Estonia

Compatible with the following products:

- 84502-0201; FLIR E53 24°
- 78501-0101; FLIR E75 14°
- 78502-0101; FLIR E75 24°
- 78504-0101; FLIR E75 24° + 14°
- 78506-0101; FLIR E75 24° + 14° & 42°
- 78505-0101; FLIR E75 24° + 42°
- 78503-0101; FLIR E75 42°
- 78507-0101; FLIR E75 42° + 14°
- 78501-0201; FLIR E85 14°
- 78502-0201; FLIR E85 24°
- 78504-0201; FLIR E85 24° + 14°
- 78506-0201; FLIR E85 24° + 14° & 42°
- 78505-0201; FLIR E85 24° + 42°
- 78503-0201; FLIR E85 42°
- 78507-0201; FLIR E85 42° + 14°
- 78501-0301; FLIR E95 14°
- 78502-0301; FLIR E95 24°
- 78504-0301; FLIR E95 24° + 14°
- 78506-0301; FLIR E95 24° + 14° & 42°
- 78505-0301; FLIR E95 24° + 42°
- 78503-0301; FLIR E95 42°
- 79301-0101; FLIR T530 14°
- 79302-0101; FLIR T530 24°
- 79304-0101; FLIR T530 24° + 14°
- 79306-0101; FLIR T530 24° + 14° & 42°
- 79305-0101; FLIR T530 24° + 42°
- 79303-0101; FLIR T530 42°
- 79307-0101; FLIR T530 42° + 14°
- 79301-0201; FLIR T540 14°
- 79302-0201; FLIR T540 24°
- 79304-0201; FLIR T540 24° + 14°
- 79306-0201; FLIR T540 24° + 14° & 42°
- 79305-0201; FLIR T540 24° + 42°
- 79303-0201; FLIR T540 42°



USB Type-C to USB Type-C cable (USB 2.0 standard)

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- 79307-0201; FLIR T540 42° + 14°

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Website

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Customer support

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P/N: T911706ACC

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Website

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Customer support

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General description	
This cable is used to power the infrared camera from the cigarette lighter socket in a car. Requires a USB Type-C to USB Type-C cable (USB 2.0 standard), T911631ACC.	

Physical data	
Weight	18 g (0.63 oz.)
Connector	USB Type-C

Shipping information	
Packaging, type	Cardboard box
List of contents	• Car adapter
Packaging, weight	
Packaging, size	
EAN-13	4743254003095
UPC-12	845188014490
Country of origin	Estonia

Compatible with the following products:

- 84502-0201; FLIR E53 24°
- 78501-0101; FLIR E75 14°
- 78502-0101; FLIR E75 24°
- 78504-0101; FLIR E75 24° + 14°
- 78506-0101; FLIR E75 24° + 14° & 42°
- 78505-0101; FLIR E75 24° + 42°
- 78503-0101; FLIR E75 42°
- 78501-0201; FLIR E85 14°
- 78502-0201; FLIR E85 24°
- 78504-0201; FLIR E85 24° + 14°
- 78506-0201; FLIR E85 24° + 14° & 42°
- 78505-0201; FLIR E85 24° + 42°
- 78503-0201; FLIR E85 42°
- 78501-0301; FLIR E95 14°
- 78502-0301; FLIR E95 24°
- 78504-0301; FLIR E95 24° + 14°
- 78506-0301; FLIR E95 24° + 14° & 42°
- 78505-0301; FLIR E95 24° + 42°
- 78503-0301; FLIR E95 42°
- 79301-0101; FLIR T530 14°
- 79302-0101; FLIR T530 24°
- 79304-0101; FLIR T530 24° + 14°
- 79306-0101; FLIR T530 24° + 14° & 42°
- 79305-0101; FLIR T530 24° + 42°
- 79303-0101; FLIR T530 42°
- 79307-0101; FLIR T530 42° + 14°
- 79301-0201; FLIR T540 14°
- 79302-0201; FLIR T540 24°
- 79304-0201; FLIR T540 24° + 14°
- 79306-0201; FLIR T540 24° + 14° & 42°
- 79305-0201; FLIR T540 24° + 42°
- 79303-0201; FLIR T540 42°
- 79307-0201; FLIR T540 42° + 14°

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General description	
Pouch, including shoulder strap, for the FLIR Ex series and FLIR Exx series.	
Physical data	
Color	Black
Shipping information	
List of contents	<ul style="list-style-type: none"> • Pouch • Printed documentation • Shoulder strap
Packaging, weight	0.56 kg (1.2 lb.)
Packaging, size	36 × 14 × 15 cm (14 × 5.5 × 5.9 in.)
EAN-13	4743254003750
UPC-12	845188016388
Country of origin	Estonia

Compatible with the following products:

- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 84502-0201; FLIR E53 24°
- 78501-0101; FLIR E75 14°
- 78502-0101; FLIR E75 24°
- 78504-0101; FLIR E75 24° + 14°
- 78506-0101; FLIR E75 24° + 14° & 42°
- 78505-0101; FLIR E75 24° + 42°
- 78503-0101; FLIR E75 42°
- 78507-0101; FLIR E75 42° + 14°
- 78501-0201; FLIR E85 14°
- 78502-0201; FLIR E85 24°
- 78504-0201; FLIR E85 24° + 14°
- 78506-0201; FLIR E85 24° + 14° & 42°
- 78505-0201; FLIR E85 24° + 42°
- 78503-0201; FLIR E85 42°
- 78507-0201; FLIR E85 42° + 14°
- 78501-0301; FLIR E95 14°
- 78502-0301; FLIR E95 24°
- 78504-0301; FLIR E95 24° + 14°
- 78506-0301; FLIR E95 24° + 14° & 42°
- 78505-0301; FLIR E95 24° + 42°
- 78503-0301; FLIR E95 42°
- 78507-0301; FLIR E95 42° + 14°
- 63901-0101; FLIR E4
- 63906-0604; FLIR E4 (incl. Wi-Fi)
- 63905-0501; FLIR E5
- 63909-0904; FLIR E5 (incl. Wi-Fi)



Pouch for FLIR E-series

P/N: T911689ACC

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- 63902-0202; FLIR E6
- 63907-0704; FLIR E6 (incl. Wi-Fi)
- 63903-0303; FLIR E8
- 63908-0805; FLIR E8 (incl. Wi-Fi)

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Accessories for FLIR T6xx series

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Website

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Customer support

<http://support.flir.com>



General description	
Stand-alone 2-bay battery charger, including power supply with multi plugs.	
Physical data	
Size (L x W x H)	50 x 133 x 50 mm (2.0 x 5.2 x 2.0 in.)
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Stand-alone 2-bay battery charger • Power supply including cable • EU plug • UK plug • US plug • AU plug
Packaging, weight	0.653 kg (1.4 lb.)
Packaging, size	243 x 165 x 82 mm (9.6 x 6.5 x 3.2 in.)
EAN-13	7332558005019
UPC-12	845188005016
Country of origin	Sweden

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)



Battery charger, incl. power supply with multi plugs T6xx

P/N: T198126

Revision

42932

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)

P/N: T199364ACC

Revision

45582

Last modified

2017-10-03 10:22 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
High capacity battery for the IR camera.	
Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	3.65 V
Battery capacity	8.5 Ah
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 90% capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
Environmental data	
Battery storage temperature range	-40°C to +70°C (-40°F to +158°F)
Physical data	
Battery weight	0.182 kg (0.40 lb.)
Size (L x W x H)	84 x 49 x 60 mm (3.3 x 1.9 x 2.4 in.)
Shipping information	
Packaging, type	Cardboard box
Packaging, weight	0.281 kg (0.62 lb.)
Packaging, size	183 x 136 x 63 mm (7.2 x 5.4 x 2.5 in.)
EAN-13	7332558011799
UPC-12	845188012885
Country of origin	Sweden

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°



Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh

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Website

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Customer support

<http://support.flir.com>

- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)

P/N: T197771ACC

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

Headset with Bluetooth for wireless connection with the infrared camera.

Data communication interfaces

Bluetooth	Connection to the infrared camera
Audio	Headset including microphone

Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Headset • Ear clip • Charger • Multi plugs • USB cable Std A to Mini-B
Packaging, weight	278 g (9.8 oz.)
Packaging, size	183 × 136 × 63 mm (7.2 × 5.35 × 2.48 in.)
EAN-13	7332558006337
UPC-12	845188006686
Country of origin	Sweden

Compatible with the following products:

- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 84502-0201; FLIR E53 24°
- 78501-0101; FLIR E75 14°
- 78502-0101; FLIR E75 24°
- 78504-0101; FLIR E75 24° + 14°
- 78506-0101; FLIR E75 24° + 14° & 42°
- 78505-0101; FLIR E75 24° + 42°
- 78503-0101; FLIR E75 42°
- 78507-0101; FLIR E75 42° + 14°
- 78501-0201; FLIR E85 14°
- 78502-0201; FLIR E85 24°
- 78504-0201; FLIR E85 24° + 14°
- 78506-0201; FLIR E85 24° + 14° & 42°
- 78505-0201; FLIR E85 24° + 42°
- 78503-0201; FLIR E85 42°
- 78507-0201; FLIR E85 42° + 14°
- 78501-0301; FLIR E95 14°
- 78502-0301; FLIR E95 24°
- 78504-0301; FLIR E95 24° + 14°
- 78506-0301; FLIR E95 24° + 14° & 42°
- 78505-0301; FLIR E95 24° + 42°
- 78503-0301; FLIR E95 42°
- 78507-0301; FLIR E95 42° + 14°
- 79301-0101; FLIR T530 14°
- 79302-0101; FLIR T530 24°
- 79304-0101; FLIR T530 24° + 14°
- 79306-0101; FLIR T530 24° + 14° & 42°
- 79305-0101; FLIR T530 24° + 42°
- 79303-0101; FLIR T530 42°
- 79307-0101; FLIR T530 42° + 14°
- 79301-0201; FLIR T540 14°
- 79302-0201; FLIR T540 24°



Bluetooth Headset

P/N: T197771ACC

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 79304-0201; FLIR T540 24° + 14°
- 79306-0201; FLIR T540 24° + 14° & 42°
- 79305-0201; FLIR T540 24° + 42°
- 79303-0201; FLIR T540 42°
- 79307-0201; FLIR T540 42° + 14°

P/N: T199838

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Website

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Customer support

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General description

General Maintenance package offers a complete 14 points inspection and calibration service (for one lens combination). Shipping cost not included.

14-point inspection program:

- Perform a complete operational check.
- Fusion calibration and laser alignment, when applicable.
- Verify all internal cable and PCB connections.
- Clean the viewfinder and check the optics.
- Upgrade the internal camera software to the latest revisions.
- Perform minor repairs.
- Verify and/or re-equalize as needed each temperature range for image uniformity.
- Verify standard lens calibration (optional: other or specially engineered lenses).
- Verify ambient temperature compensation as needed.
- Recalibration to ensure factory specifications are met.
- Calibrate temperature ranges up to +1500°C, when applicable.
- Perform a quality-approved acceptance test procedure.
- Provide a calibration label with the next due date.
- Provide a calibration certificate (optional: extended calibration certificate with measured values).

Download

Contact info can be found at:

<http://support.flir.com>

Compatible with the following products:

- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)



Calibration including General maintenance T6xx series

P/N: T199838

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)

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Website

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Customer support

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General description
This cable is used to power the infrared camera from the cigarette lighter socket in a car.
Note: This is the same product as p/n 1196497.

Physical data	
Cable length	1.2 m (3.9 ft.)

Shipping information	
Packaging, type	Cardboard box
Packaging, weight	0.125 kg (0.28 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558004340 4743254001435 (Estonia plant)
UPC-12	845188004361
Country of origin	Sweden

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)



Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.

P/N: T198509

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 74902-0101; FLIR GFx320 14.5° fixed lens
- 74902-0102; FLIR GFx320 24° fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72203-0411; FLIR K33



Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.

P/N: T198509

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 72203-0511; FLIR K53
- 72201-0106; FLIR K45
- 72201-0206; FLIR K55
- 72202-0303; FLIR K65

P/N: T198066

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

For R&D usage or development purposes. As an example looking at PCB's or small electronic components.

Imaging and optical data

Field of view (FOV)	16 × 12 mm (20 mm diagonally)
Magnifying factor	1.5×
Working distance	46 mm
Depth of field	0.21 mm
Focal length	62 mm
Spatial resolution (IFOV)	25 μm
Lens identification	Automatic
F-number	1.1
Number of lenses	4 (4 asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	< 3%

Physical data

Weight	0.48 kg (1.1 lb.)
Size (L × D)	86 × 67 mm
Front lens diameter	52 mm

Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Lens • Front lens cap • Rear lens cap • Case • Instruction for mounting close-up lenses
Packaging, weight	0.737 kg (1.6 lb.)
Packaging, size	172 × 131 × 133 mm (6.8 × 5.2 × 5.2 in.)
EAN-13	73325585552
UPC-12	84518805764
Country of origin	Sweden

Compatible with the following products:

- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)

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Website

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Customer support

<http://support.flir.com>

- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

For R&D usage or development purposes. As an example looking at PCB's or small electronic components.

Imaging and optical data

Field of view (FOV)	32 × 24 mm (40 mm diagonally)
Magnifying factor	2.9×
Working distance	84 mm
Depth of field	0.65 mm
Focal length	78 mm
Spatial resolution (IFOV)	50 μm
Lens identification	Manual
F-number	1.0
Number of lenses	2 (2 asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	3%
Lens note	The close-up lens is mounted on the 25° lens

Physical data

Weight	0.197 kg (0.43 lb.)
Size (L × D)	32 × 67 mm
Front lens diameter	53 mm

Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Lens • Front lens cap • Rear lens cap • Case • Instruction for mounting close-up lenses
Packaging, weight	0.440 kg (0.97 lb.)
Packaging, size	172 × 131 × 133 mm (6.8 × 5.2 × 5.2 in.)
EAN-13	7332558005583
UPC-12	845188005795
Country of origin	Sweden

Compatible with the following products:

- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 55001-0102; FLIR A615 25°
- 55001-0302; FLIR A655sc 25°

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General description	
For R&D usage or development purposes. As an example looking at PCB's or small electronic components.	

Imaging and optical data	
Field of view (FOV)	64 × 48 mm (80 mm diagonally)
Magnifying factor	5.8×
Working distance	172 mm
Depth of field	2.8 mm
Focal length	149 mm
Spatial resolution (IFOV)	100 μm
Lens identification	Manual
F-number	1.0
Number of lenses	2 (2 asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	3%
Lens note	The close-up lens is mounted on the 25° lens

Physical data	
Weight	0.176 kg (0.39 lb.)
Size (L × D)	28 × 67 mm
Front lens diameter	53 mm

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Lens • Front lens cap • Rear lens cap • Case • Instruction for mounting close-up lenses
Packaging, weight	0.426 kg (0.84 lb.)
Packaging, size	172 × 131 × 133 mm (6.8 × 5.2 × 5.2 in.)
EAN-13	84518805757
UPC-12	73325585545
Country of origin	Sweden

Compatible with the following products:

- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)

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- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 55001-0102; FLIR A615 25°
- 55001-0302; FLIR A655sc 25°

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General description

The FLIR Atlas SDK for .NET is a software development kit that enables developers to create applications. Supported by help files and sample code, developers can add functionality or collaborate with other FLIR products to get the result they want in their application.

Key features:

- Supports communication and streaming using FireWire, Gigabit, RTSP, and USB interfaces.
- Gives the user full control of the camera.
- Supports recording of images using FireWire, Gigabit, RTSP, and USB interfaces.
- Converts 16-bit signal pixels into temperature data, for maximum user flexibility.
- Allows 16-bit temperature linear, histogram, and signal outputs.

Release notes

Version	3.1
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Shipping information

Packaging, type	Cardboard box
List of contents	Download card with printed license key
Packaging, weight	0.056 kg (0.123 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558011126
UPC-12	845188012014
Country of origin	Sweden

System requirements

Operating system	<ul style="list-style-type: none"> • Windows 7 (32- and 64-bit) • Windows 8 (32- and 64-bit) • Windows 10 (32- and 64-bit)
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Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case



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- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 73309-0102; FLIR A35 f=9 mm with SC kit
- 83225-0101; FLIR A35 FOV 13 (60 Hz, ver. 2017)
- 83213-0102; FLIR A35 FOV 25 (60 Hz, ver. 2017)
- 83207-0102; FLIR A35 FOV 45 (60 Hz, ver. 2017)
- 83250-0101; FLIR A35 FOV 6.5 (60 Hz, ver. 2017)
- 83209-0102; FLIR A35 FOV 69 (30 Hz, ver. 2017)
- 73413-0102; FLIR A65 f=13 mm with SC kit (30 Hz)
- 73513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 75050-0101; FLIR A65 FOV 12.4 (30 Hz, ver. 2016)
- 75025-0101; FLIR A65 FOV 25 (30 Hz, ver. 2016)
- 75013-0101; FLIR A65 FOV 45 (30 Hz, ver. 2016)
- 75010-0101; FLIR A65 FOV 6.2 (30 Hz, ver. 2016)
- 75007-0101; FLIR A65 FOV 90 (30 Hz, ver. 2016)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°

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- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 65702-0102; FLIR GF343 24° Fixed lens
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 71502-0101; FLIR G300 a 14.5° fixed lens
- 71502-0102; FLIR G300 a 24° fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 63901-0101; FLIR E4
- 63906-0604; FLIR E4 (incl. Wi-Fi)
- 63905-0501; FLIR E5
- 63909-0904; FLIR E5 (incl. Wi-Fi)
- 63902-0202; FLIR E6
- 63907-0704; FLIR E6 (incl. Wi-Fi)
- 63903-0303; FLIR E8
- 63908-0805; FLIR E8 (incl. Wi-Fi)
- 72001-0101; FLIR C2
- 72002-0202; FLIR C2 Educational Kit
- 72003-0303; FLIR C3 (incl. Wi-Fi)
- 72003-0404; FLIR C3 (incl. Wi-Fi) Educational Kit

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

The FLIR Atlas SDK for MATLAB is a software development kit that enables developers to create applications. Supported by help files and sample code, developers can add functionality or collaborate with other FLIR products to get the result they want in their application.

Key features:

- Supports communication and streaming using FireWire, Gigabit, RTSP, and USB interfaces.
- Gives the user full control of the camera.
- Supports recording of images using FireWire, Gigabit, RTSP, and USB interfaces.
- Converts 16-bit signal pixels into temperature data, for maximum user flexibility.
- Allows 16-bit temperature linear, histogram, and signal outputs.

Release notes

Version	3.1
---------	-----

Shipping information

Packaging, type	Cardboard box
List of contents	Download card with printed license key
Packaging, weight	0.056 kg (0.123 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558011133
UPC-12	845188012021
Country of origin	Sweden

System requirements

Operating system	MATLAB 2015 (32- and 64-bit) and one of the following operating systems: <ul style="list-style-type: none"> • Windows 7 (32- and 64-bit) • Windows 8 (32- and 64-bit) • Windows 10 (32- and 64-bit)
------------------	--

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 73309-0102; FLIR A35 f=9 mm with SC kit
- 83225-0101; FLIR A35 FOV 13 (60 Hz, ver. 2017)
- 83213-0102; FLIR A35 FOV 25 (60 Hz, ver. 2017)
- 83207-0102; FLIR A35 FOV 45 (60 Hz, ver. 2017)
- 83250-0101; FLIR A35 FOV 6.5 (60 Hz, ver. 2017)
- 83209-0102; FLIR A35 FOV 69 (30 Hz, ver. 2017)
- 73413-0102; FLIR A65 f=13 mm with SC kit (30 Hz)
- 73513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 75050-0101; FLIR A65 FOV 12.4 (30 Hz, ver. 2016)
- 75025-0101; FLIR A65 FOV 25 (30 Hz, ver. 2016)
- 75013-0101; FLIR A65 FOV 45 (30 Hz, ver. 2016)
- 75010-0101; FLIR A65 FOV 6.2 (30 Hz, ver. 2016)
- 75007-0101; FLIR A65 FOV 90 (30 Hz, ver. 2016)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°

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Website

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Customer support

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- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 65702-0102; FLIR GF343 24° Fixed lens
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 71502-0101; FLIR G300 a 14.5° fixed lens
- 71502-0102; FLIR G300 a 24° fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 63901-0101; FLIR E4
- 63906-0604; FLIR E4 (incl. Wi-Fi)
- 63905-0501; FLIR E5
- 63909-0904; FLIR E5 (incl. Wi-Fi)
- 63902-0202; FLIR E6
- 63907-0704; FLIR E6 (incl. Wi-Fi)
- 63903-0303; FLIR E8
- 63908-0805; FLIR E8 (incl. Wi-Fi)
- 72001-0101; FLIR C2
- 72002-0202; FLIR C2 Educational Kit
- 72003-0303; FLIR C3 (incl. Wi-Fi)
- 72003-0404; FLIR C3 (incl. Wi-Fi) Educational Kit

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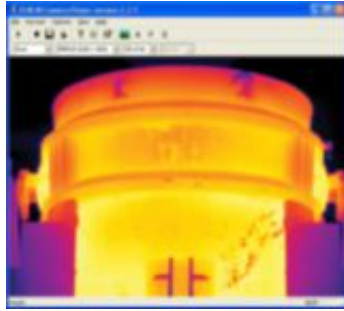
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Website

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Customer support

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General description

FLIR IR Camera Player is a PC-based remote control and viewer that you can use with cameras from FLIR Systems.

You can perform one or more of the following with FLIR IR Camera Player:

- Record a video stream from the camera.
- Save a frame from the video stream as a snapshot image (*.bmp).
- Autofocus, focus far, and focus near.
- Autoadjust the camera image.
- Freeze the camera image.
- Save a camera image in the camera.
- Change Color palette.
- Add an image description and a text comment to an image.

You connect a camera in one of the following ways:

- Ethernet
- FireWire
- USB

Download

This software is a freeware. To download, click the following link:

<http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=89>

Release notes

Version	2.3.3
New features	<p>Main improvements in version 2.3.3:</p> <ul style="list-style-type: none"> • Added latest device drivers (1.9.1.0). • Various bugfixes <p>Main improvements in version 2.2.7:</p> <ul style="list-style-type: none"> • Added support for FLIR Ax5 series.

System requirements

Operating system	<ul style="list-style-type: none"> • Windows XP, 32-bit • Windows Vista, 32-bit/64-bit • Windows 7, 32-bit/64-bit
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Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)

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Website

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- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 73309-0102; FLIR A35 f=9 mm with SC kit
- 83225-0101; FLIR A35 FOV 13 (60 Hz, ver. 2017)
- 83213-0102; FLIR A35 FOV 25 (60 Hz, ver. 2017)
- 83207-0102; FLIR A35 FOV 45 (60 Hz, ver. 2017)
- 83250-0101; FLIR A35 FOV 6.5 (60 Hz, ver. 2017)
- 83209-0102; FLIR A35 FOV 69 (30 Hz, ver. 2017)
- 73413-0102; FLIR A65 f=13 mm with SC kit (30 Hz)
- 73513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 75050-0101; FLIR A65 FOV 12.4 (30 Hz, ver. 2016)
- 75025-0101; FLIR A65 FOV 25 (30 Hz, ver. 2016)
- 75013-0101; FLIR A65 FOV 45 (30 Hz, ver. 2016)
- 75010-0101; FLIR A65 FOV 6.2 (30 Hz, ver. 2016)
- 75007-0101; FLIR A65 FOV 90 (30 Hz, ver. 2016)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)



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Website

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- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
FLIR Reporter Professional is a powerful software for creating compelling and professional, fully customized, easy-to-interpret maintenance reports.	
Professional Report Wizard guides you step-by-step in combining all IR inspection data - infrared and visual images, temperature measurements, and text notes – into a professional, easy-to-interpret maintenance report.	
Key features:	
<ul style="list-style-type: none"> • Flexible report page design and layout for customized reports • Use quick insert function to easily create custom report pages • Fully integrated with standard Microsoft Word • Generates reports in standard MS Office format and PDF-format • Powerful temperature analysis • Triple Fusion Picture-in-Picture (movable, sizable, scalable) • Rapid report manager supporting automatic report generation by drag-and-drop • Support for MSX (Multi-Spectral Dynamic Imaging) images • Support for sketch images in both IR and visual with on/off toggling • Support for same FOV ("Field of View Match") • Grid settings • Trending functionality • Automatic link to Google™ Maps for images with GPS coordinates • Automatic summary table for the report • Fine tune images and make full temperature analysis directly in Microsoft Word • Spell check • Create your own formulas including measurement values from images • Play radiometric sequences directly in the report • Search functionality to quickly finding images for your report • Panorama tool for combining several images to a larger image • Support for GF series IR images • Auto Update function • Support for METERLiNK™ data • *.docx compatibility 	
Download	
Download your copy of FLIR Reporter Professional here:	
http://support.flir.com/reporter	
Release notes	
Version	9.2
New features	News in 9.2 <ul style="list-style-type: none"> • Option to hide Zoom Viewer • Option to extract Visual image from MSI/Fusion image. • Support for the new FLIR Ex and Exx series cameras. • Support for multispectral images. • Support for auto-oriented images. • Various bug fixes.



FLIR Reporter Professional (license only)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Shipping information	
Packaging, type	Cardboard box
List of contents	• FLIR Reporter Professional scratchcard
Packaging, weight	0.135 kg (0.3 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005286 4743254001893 (Estonia plant)
UPC-12	845188005498
Country of origin	Sweden

System requirements	
Operating system	• Windows 7, 32-bit • Windows 7, 64-bit • Windows 8, 32-bit • Windows 8, 64-bit • Windows 10, 32-bit • Windows 10, 64-bit
Software requirements	• Office 2007 (32-bit) • Office 2010 (32-bit) • Office 2013 (32-bit) • Office 2016 (32-bit)

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

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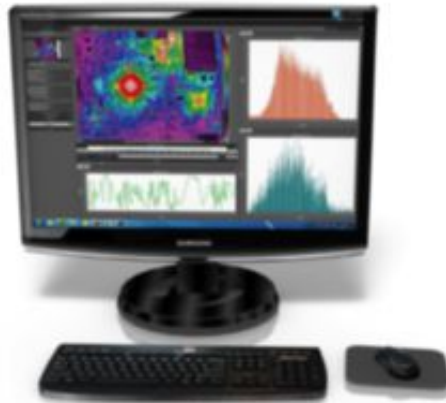
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Website

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Customer support

<http://support.flir.com>



General description
FLIR ResearchIR Max + HSDR 4 contains all the features of FLIR ResearchIR Max 4, plus support for FLIR High Speed Data Recorder (HSDR) products.
Main features:
<ul style="list-style-type: none"> • Pre/post-recording. • Mathematical processing toolbox. • Image filtering toolbox. • Radiometric digital detail enhancement (DDE) improves dramatically the understanding of the thermal image, while maintaining radiometric measurement accuracy. • View, record and store images at high speed. • Post-processing of fast thermal events. • Generate time-temperature plots from live images or recorded sequences. • Advanced start/stop recording conditions. • Unlimited number of analysis functions (spot, line, area). • File organizer. • Zoom and pan allows a closer look. • Multiple dockable objects for plots and statistics. • Export images and results to bitmap, video, Excel, MATLAB or CSV formats • Local scale gain control on measurement - automatically adjusts the contrast in a specific part of the image.
FLIR ResearchIR Max + HSDR 4 in combination with a FLIR thermal imaging camera is the perfect solution for any R&D or scientific application. It will allow researchers in all fields to make the smallest of temperature differences visible and to thoroughly analyze the thermal process in real-time.

Download
Download your copy of FLIR ResearchIR Max + HSDR 4 here (hardware security device required to run the software):
http://support.flir.com/rir4

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • FLIR ResearchIR Max + HSDR 4 download card. • Hardware security device.
Packaging, weight	0.068 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558007280
UPC-12	845188007652
Country of origin	Sweden

Compatible with the following products:

- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°



FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)

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Website

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Customer support

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- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens



FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

P/N: T199014

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

FLIR ResearchIR Max + HSDR 4 contains all the features of FLIR ResearchIR Max 4, plus support for FLIR High Speed Data Recorder (HSDR) products.

Main features:

- Pre/post-recording.
- Mathematical processing toolbox.
- Image filtering toolbox.
- Radiometric digital detail enhancement (DDE) improves dramatically the understanding of the thermal image, while maintaining radiometric measurement accuracy.
- View, record and store images at high speed.
- Post-processing of fast thermal events.
- Generate time-temperature plots from live images or recorded sequences.
- Advanced start/stop recording conditions.
- Unlimited number of analysis functions (spot, line, area).
- File organizer.
- Zoom and pan allows a closer look.
- Multiple dockable objects for plots and statistics.
- Export images and results to bitmap, video, Excel, MATLAB or CSV formats
- Local scale gain control on measurement - automatically adjusts the contrast in a specific part of the image.

FLIR ResearchIR Max + HSDR 4 in combination with a FLIR thermal imaging camera is the perfect solution for any R&D or scientific application. It will allow researchers in all fields to make the smallest of temperature differences visible and to thoroughly analyze the thermal process in real-time.

Download

Download your copy of FLIR ResearchIR Max + HSDR 4 here (evaluation copy only – license key required):

<http://support.flir.com/rir4>

Shipping information

Packaging, type	Cardboard box
List of contents	FLIR ResearchIR Max + HSDR 4 download card, incl. license key.
Packaging, weight	0.068 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558010464
UPC-12	845188011116
Country of origin	Sweden

Compatible with the following products:

- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case



FLIR ResearchIR Max + HSDR 4 (printed license key)

P/N: T199014

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)



FLIR ResearchIR Max + HSDR 4 (printed license key)

P/N: T199014

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Website

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Customer support

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- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

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Website

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General description

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Main features:

- Pre/post-recording.
- Mathematical processing toolbox.
- Image filtering toolbox.
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- Multiple dockable objects for plots and statistics.
- Export images and results to bitmap, video, Excel, MATLAB or CSV formats
- Local scale gain control on measurement - automatically adjusts the contrast in a specific part of the image.

FLIR ResearchIR Max + HSDR 4 in combination with a FLIR thermal imaging camera is the perfect solution for any R&D or scientific application. It will allow researchers in all fields to make the smallest of temperature differences visible and to thoroughly analyze the thermal process in real-time.

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Download your copy of FLIR ResearchIR Max + HSDR 4 here (evaluation copy only – license key required):

<http://support.flir.com/rir4>

Shipping information

Packaging, type	Cardboard box
List of contents	FLIR ResearchIR Max + HSDR 4 download card, incl. license key.
Packaging, weight	0.068 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558010495
UPC-12	845188011147
Country of origin	Sweden

Compatible with the following products:

- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case



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Website

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- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
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- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)



FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

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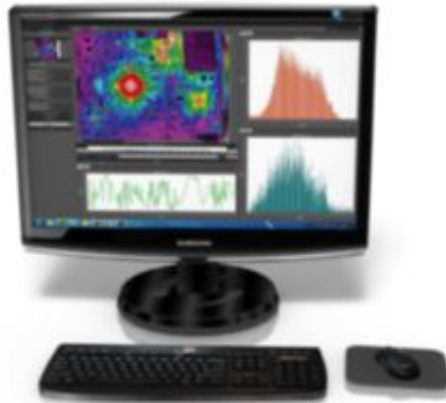
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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

FLIR ResearchIR Max 4 is aimed at R&D and science professionals who use thermal imaging cameras with a cooled or uncooled detectors. FLIR ResearchIR Max makes the most of a thermal imaging camera, and allows high-speed recording and advanced thermal pattern analysis. FLIR ResearchIR Max is the perfect tool for industrial R&D.

Main features:

- Pre/post-recording.
- Mathematical processing toolbox.
- Image filtering toolbox.
- Radiometric digital detail enhancement (DDE) improves dramatically the understanding of the thermal image, while maintaining radiometric measurement accuracy.
- View, record and store images at high speed.
- Post-processing of fast thermal events.
- Generate time-temperature plots from live images or recorded sequences.
- Advanced start/stop recording conditions.
- Unlimited number of analysis functions (spot, line, area).
- File organizer.
- Zoom and pan allows a closer look.
- Multiple dockable objects for plots and statistics.
- Export images and results to bitmap, video, Excel, MATLAB or CSV formats
- Local scale gain control on measurement - automatically adjusts the contrast in a specific part of the image.

FLIR ResearchIR Max 4 in combination with a FLIR thermal imaging camera is the perfect solution for any R&D or scientific application. It will allow researchers in all fields to make the smallest of temperature differences visible and to thoroughly analyze the thermal process in real-time.

Download

Download your copy of FLIR ResearchIR Max 4 here (hardware security device required to run the software):

<http://support.flir.com/rir4>

Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • FLIR ResearchIR Max 4 download card. • Hardware security device.
Packaging, weight	0.066 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558007266
UPC-12	845188007638
Country of origin	Sweden

Compatible with the following products:

- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0401; FLIR T1050sc 12°



FLIR ResearchIR Max 4 (hardware sec. dev.)

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Website

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Customer support

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- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°



P/N: T198696

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 84502-0201; FLIR E53 24°
- 78501-0101; FLIR E75 14°
- 78502-0101; FLIR E75 24°
- 78504-0101; FLIR E75 24° + 14°
- 78506-0101; FLIR E75 24° + 14° & 42°
- 78505-0101; FLIR E75 24° + 42°
- 78503-0101; FLIR E75 42°
- 78507-0101; FLIR E75 42° + 14°
- 78501-0201; FLIR E85 14°
- 78502-0201; FLIR E85 24°
- 78504-0201; FLIR E85 24° + 14°
- 78506-0201; FLIR E85 24° + 14° & 42°
- 78505-0201; FLIR E85 24° + 42°
- 78503-0201; FLIR E85 42°
- 78507-0201; FLIR E85 42° + 14°
- 78501-0301; FLIR E95 14°
- 78502-0301; FLIR E95 24°
- 78504-0301; FLIR E95 24° + 14°
- 78506-0301; FLIR E95 24° + 14° & 42°
- 78505-0301; FLIR E95 24° + 42°
- 78503-0301; FLIR E95 42°
- 78507-0301; FLIR E95 42° + 14°
- 79301-0101; FLIR T530 14°
- 79302-0101; FLIR T530 24°
- 79304-0101; FLIR T530 24° + 14°
- 79306-0101; FLIR T530 24° + 14° & 42°
- 79305-0101; FLIR T530 24° + 42°
- 79303-0101; FLIR T530 42°
- 79307-0101; FLIR T530 42° + 14°
- 79301-0201; FLIR T540 14°
- 79302-0201; FLIR T540 24°
- 79304-0201; FLIR T540 24° + 14°
- 79306-0201; FLIR T540 24° + 14° & 42°
- 79305-0201; FLIR T540 24° + 42°
- 79303-0201; FLIR T540 42°
- 79307-0201; FLIR T540 42° + 14°

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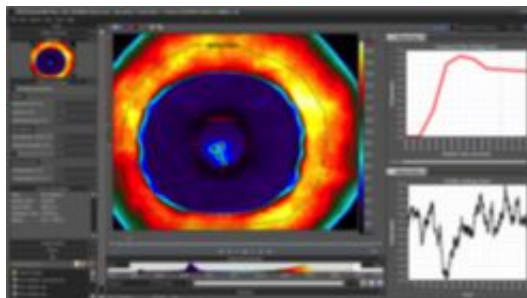
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Website

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Customer support

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General description

FLIR ResearchIR Max 4.0 is aimed at R&D and science professionals who use thermal imaging cameras with a cooled or uncooled detectors. FLIR ResearchIR Max makes the most of a thermal imaging camera, and allows high-speed recording and advanced thermal pattern analysis. FLIR ResearchIR Max is the perfect tool for industrial R&D.

Main features:

- Pre/post-recording.
- Mathematical processing toolbox.
- Image filtering toolbox.
- Radiometric digital detail enhancement (DDE) improves dramatically the understanding of the thermal image, while maintaining radiometric measurement accuracy.
- View, record and store images at high speed.
- Post-processing of fast thermal events.
- Generate time-temperature plots from live images or recorded sequences.
- Advanced start/stop recording conditions.
- Unlimited number of analysis functions (spot, line, area).
- File organizer.
- Zoom and pan allows a closer look.
- Multiple dockable objects for plots and statistics.
- Export images and results to bitmap, video, Excel, MATLAB or CSV formats
- Local scale gain control on measurement - automatically adjusts the contrast in a specific part of the image.

FLIR ResearchIR Max 4 in combination with a FLIR thermal imaging camera is the perfect solution for any R&D or scientific application. It will allow researchers in all fields to make the smallest of temperature differences visible and to thoroughly analyze the thermal process in real-time.

Download

Download your copy of FLIR ResearchIR Max 4 here (evaluation copy only – license key required):

<http://support.flir.com/rir4>

Shipping information

Packaging, type	Cardboard box
List of contents	FLIR ResearchIR Max 4 download card, incl. license key.
Packaging, weight	0.066 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558010457
UPC-12	845188011109
Country of origin	Sweden

Compatible with the following products:

- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)



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Website

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Customer support

<http://support.flir.com>

- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 84502-0201; FLIR E53 24°
- 78501-0101; FLIR E75 14°
- 78502-0101; FLIR E75 24°
- 78504-0101; FLIR E75 24° + 14°
- 78506-0101; FLIR E75 24° + 14° & 42°
- 78505-0101; FLIR E75 24° + 42°
- 78503-0101; FLIR E75 42°
- 78507-0101; FLIR E75 42° + 14°
- 78501-0201; FLIR E85 14°
- 78502-0201; FLIR E85 24°
- 78504-0201; FLIR E85 24° + 14°
- 78506-0201; FLIR E85 24° + 14° & 42°
- 78505-0201; FLIR E85 24° + 42°
- 78503-0201; FLIR E85 42°
- 78507-0201; FLIR E85 42° + 14°
- 78501-0301; FLIR E95 14°
- 78502-0301; FLIR E95 24°
- 78504-0301; FLIR E95 24° + 14°
- 78506-0301; FLIR E95 24° + 14° & 42°
- 78505-0301; FLIR E95 24° + 42°
- 78503-0301; FLIR E95 42°
- 78507-0301; FLIR E95 42° + 14°
- 79301-0101; FLIR T530 14°
- 79302-0101; FLIR T530 24°
- 79304-0101; FLIR T530 24° + 14°
- 79306-0101; FLIR T530 24° + 14° & 42°
- 79305-0101; FLIR T530 24° + 42°
- 79303-0101; FLIR T530 42°
- 79307-0101; FLIR T530 42° + 14°
- 79301-0201; FLIR T540 14°
- 79302-0201; FLIR T540 24°
- 79304-0201; FLIR T540 24° + 14°
- 79306-0201; FLIR T540 24° + 14° & 42°
- 79305-0201; FLIR T540 24° + 42°
- 79303-0201; FLIR T540 42°
- 79307-0201; FLIR T540 42° + 14°

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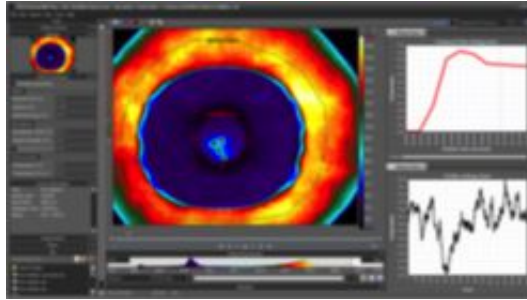
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Website

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General description
FLIR ResearchIR Max 4 is aimed at R&D and science professionals who use thermal imaging cameras with a cooled or uncooled detectors. FLIR ResearchIR Max makes the most of a thermal imaging camera, and allows high-speed recording and advanced thermal pattern analysis. FLIR ResearchIR Max is the perfect tool for industrial R&D.
Main features:
<ul style="list-style-type: none"> • Pre/post-recording. • Mathematical processing toolbox. • Image filtering toolbox. • Radiometric digital detail enhancement (DDE) improves dramatically the understanding of the thermal image, while maintaining radiometric measurement accuracy. • View, record and store images at high speed. • Post-processing of fast thermal events. • Generate time-temperature plots from live images or recorded sequences. • Advanced start/stop recording conditions. • Unlimited number of analysis functions (spot, line, area). • File organizer. • Zoom and pan allows a closer look. • Multiple dockable objects for plots and statistics. • Export images and results to bitmap, video, Excel, MATLAB or CSV formats • Local scale gain control on measurement - automatically adjusts the contrast in a specific part of the image.
FLIR ResearchIR Max 4 in combination with a FLIR thermal imaging camera is the perfect solution for any R&D or scientific application. It will allow researchers in all fields to make the smallest of temperature differences visible and to thoroughly analyze the thermal process in real-time.

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Download your copy of FLIR ResearchIR Max 4 here (evaluation copy only – license key required):
http://support.flir.com/rir4

Shipping information	
Packaging, type	Cardboard box
List of contents	FLIR ResearchIR Max 4 download card, incl. license key.
Packaging, weight	0.066 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558010488
UPC-12	845188011130
Country of origin	Sweden

Compatible with the following products:

- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case



FLIR ResearchIR Max 4 Upgrade (printed license key)

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Website

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Customer support

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- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)



FLIR ResearchIR Max 4 Upgrade (printed license key)

P/N: T199043

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 84502-0201; FLIR E53 24°
- 78501-0101; FLIR E75 14°
- 78502-0101; FLIR E75 24°
- 78504-0101; FLIR E75 24° + 14°
- 78506-0101; FLIR E75 24° + 14° & 42°
- 78505-0101; FLIR E75 24° + 42°
- 78503-0101; FLIR E75 42°
- 78507-0101; FLIR E75 42° + 14°
- 78501-0201; FLIR E85 14°
- 78502-0201; FLIR E85 24°
- 78504-0201; FLIR E85 24° + 14°
- 78506-0201; FLIR E85 24° + 14° & 42°
- 78505-0201; FLIR E85 24° + 42°
- 78503-0201; FLIR E85 42°
- 78507-0201; FLIR E85 42° + 14°
- 78501-0301; FLIR E95 14°
- 78502-0301; FLIR E95 24°
- 78504-0301; FLIR E95 24° + 14°
- 78506-0301; FLIR E95 24° + 14° & 42°
- 78505-0301; FLIR E95 24° + 42°
- 78503-0301; FLIR E95 42°
- 78507-0301; FLIR E95 42° + 14°
- 79301-0101; FLIR T530 14°
- 79302-0101; FLIR T530 24°
- 79304-0101; FLIR T530 24° + 14°
- 79306-0101; FLIR T530 24° + 14° & 42°
- 79305-0101; FLIR T530 24° + 42°
- 79303-0101; FLIR T530 42°
- 79307-0101; FLIR T530 42° + 14°
- 79301-0201; FLIR T540 14°
- 79302-0201; FLIR T540 24°
- 79304-0201; FLIR T540 24° + 14°
- 79306-0201; FLIR T540 24° + 14° & 42°
- 79305-0201; FLIR T540 24° + 42°
- 79303-0201; FLIR T540 42°
- 79307-0201; FLIR T540 42° + 14°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

FLIR ResearchIR Standard 4.0 is aimed at the R&D benchtop testing environment for users of uncooled cameras. FLIR ResearchIR Standard provides the core analysis tools needed for rapid testing and assessment of thermal issues.

Main features:

- View live imagery from the camera
- Record snapshots or movies to disk.
- Post-processing of fast thermal events.
- Generate time-temperature plots from live images or recorded sequences.
- Analysis by region (spot, line, area).
- File organizer.
- Zoom and pan allows a closer look.
- Multiple dockable objects for plots and statistics.
- Export images and results to bitmap, Excel, or CSV formats

FLIR ResearchIR Standard 4 in combination with a FLIR thermal imaging camera is the perfect solution for any benchtop testing application application.

Shipping information

List of contents	<ul style="list-style-type: none"> • FLIR ResearchIR Standard download card. • Hardware security device.
Packaging, weight	0.069 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558008638
UPC-12	845188009151
Country of origin	Sweden

Compatible with the following products:

- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 78502-0101; FLIR E75 24°
- 78504-0101; FLIR E75 24° + 14°
- 78506-0101; FLIR E75 24° + 14° & 42°



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 78505-0101; FLIR E75 24° + 42°
- 78503-0101; FLIR E75 42°
- 78507-0101; FLIR E75 42° + 14°
- 78502-0201; FLIR E85 24°
- 78504-0201; FLIR E85 24° + 14°
- 78506-0201; FLIR E85 24° + 14° & 42°
- 78505-0201; FLIR E85 24° + 42°
- 78503-0201; FLIR E85 42°
- 78507-0201; FLIR E85 42° + 14°
- 78502-0301; FLIR E95 24°
- 78504-0301; FLIR E95 24° + 14°
- 78506-0301; FLIR E95 24° + 14° & 42°
- 78505-0301; FLIR E95 24° + 42°
- 78503-0301; FLIR E95 42°
- 78507-0301; FLIR E95 42° + 14°
- 79302-0101; FLIR T530 24°
- 79306-0101; FLIR T530 24° + 14° & 42°
- 79305-0101; FLIR T530 24° + 42°
- 79304-0101; FLIR T530 24° + 14°
- 79303-0101; FLIR T530 42°
- 79307-0101; FLIR T530 42° + 14°
- 79302-0201; FLIR T540 24°
- 79304-0201; FLIR T540 24° + 14°
- 79306-0201; FLIR T540 24° + 14° & 42°
- 79305-0201; FLIR T540 24° + 42°
- 79303-0201; FLIR T540 42°
- 79307-0201; FLIR T540 42° + 14°

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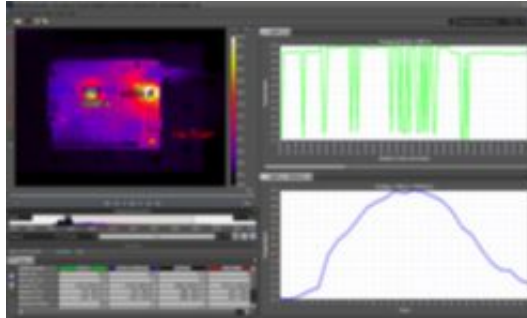
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Customer support

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General description
FLIR ResearchIR Standard 4 is aimed at the R&D benchtop testing environment for users of uncooled cameras. FLIR ResearchIR Standard provides the core analysis tools needed for rapid testing and assessment of thermal issues.
Main features:
<ul style="list-style-type: none"> • View live imagery from the camera • Record snapshots or movies to disk. • Post-processing of fast thermal events. • Generate time-temperature plots from live images or recorded sequences. • Analysis by region (spot, line, area). • File organizer. • Zoom and pan allows a closer look. • Multiple dockable objects for plots and statistics. • Export images and results to bitmap, Excel, or CSV formats
FLIR ResearchIR Standard 4 in combination with a FLIR thermal imaging camera is the perfect solution for any benchtop testing application application.

Download
Download your copy of FLIR ResearchIR 4 here (evaluation copy only – license key required):
http://support.flir.com/rir4

Shipping information	
List of contents	FLIR ResearchIR Standard download card, incl. license key.
Packaging, weight	0.069 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558010440
UPC-12	845188011093
Country of origin	Sweden

Compatible with the following products:

- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72002-0202; FLIR C2 Educational Kit

P/N: T199042

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Disclaimer

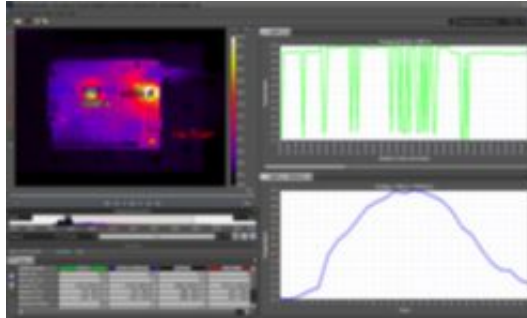
Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to exportquestions@flir.com with any questions.

Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

FLIR ResearchIR Standard 4 is aimed at the R&D benchtop testing environment for users of uncooled cameras. FLIR ResearchIR Standard provides the core analysis tools needed for rapid testing and assessment of thermal issues.

Main features:

- View live imagery from the camera
- Record snapshots or movies to disk.
- Post-processing of fast thermal events.
- Generate time-temperature plots from live images or recorded sequences.
- Analysis by region (spot, line, area).
- File organizer.
- Zoom and pan allows a closer look.
- Multiple dockable objects for plots and statistics.
- Export images and results to bitmap, Excel, or CSV formats

FLIR ResearchIR Standard 4 in combination with a FLIR thermal imaging camera is the perfect solution for any benchtop testing application.

Download

Download your copy of FLIR ResearchIR 4 here (evaluation copy only – license key required):

<http://support.flir.com/rir4>

Shipping information

List of contents	FLIR ResearchIR Standard download card, incl. license key.
Packaging, weight	0.069 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558010471
UPC-12	845188011123
Country of origin	Sweden

Compatible with the following products:

- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)



FLIR ResearchIR Standard 4 Upgrade (printed license key)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

FLIR Tools is a software suite specifically designed to provide an easy way to update your camera and create inspection reports.

Key features:

- Report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR).
- Manual IR/Visual Image Grouping
- Import images from your camera to your computer.
- Apply filters when searching for images.
- Search all text in images and text annotations.
- Store the five latest search criteria's.
- Lay out, move, and resize measurement tools on any infrared image.
- Create PDF imagesheets of any images of your choice.
- Add headers, footers, and logos to imagesheets.
- Create PDF reports for images of your choice.
- Add headers, footers, and logos to reports.
- Report editor (report page preview and snap to grid).
- Sort function (by date, groups sorted by path, and groups sorted by date).
- Browse and purchase infrared cameras, software, and accessories in the webshop.
- Software localized to 21 languages.
- Support for MSX (Multi-Spectral Dynamic Imaging) Images
- Support for Sketch Images on both IR and Visual with toggling ON/OFF feature.
- Support for Same FOV (Field of View Match)
- Display of Compass Information in Edit and in Report.
- Display of GPS Information in Edit and in Report.
- Camera update (applies to FLIR Ex, Kxx, Exx and T6xx series only).

Download

This software is a freeware. To download, click the following link:

<http://support.flir.com/tools>

Release notes

Version	5.9
New features in version 5.9	<ul style="list-style-type: none"> • Additional trigger options for FLIR K53, K55, and K65 cameras • Added user account registration and login • New Pleora version support • Various bug fixes
New features in version 5.7	<ul style="list-style-type: none"> • Five modes supported for K65, K55, and K53 cameras. • Support for Kx3 cameras. • Auto gain mode now available for K2 cameras. • Various bug fixes.
New features in version 5.5	<ul style="list-style-type: none"> • Added support for Microsoft Office 2016 (32-bit) for the FLIR Word Reporting module. • Various bug fixes.

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Release notes	
New features in version 5.3	<ul style="list-style-type: none"> Support for the FLIR T1020 and T1040 cameras for import, edit, report creation, and camera update. Support for the FLIR K2 camera for configuration, video streaming, and camera update. Delta (difference) readings are now on one line instead of two.
New features in version 5.2.1	<ul style="list-style-type: none"> Option added to change color distribution mode (histogram equalization, signal linear, temperature linear). Option added to extract photos at their full field of view. Various bug fixes.
New features in version 5.2	<ul style="list-style-type: none"> Support for auto-adjusting a region. Support for zoom. Various bug fixes.
New features in version 5.1	<ul style="list-style-type: none"> Improved import performance. Added support for video recording settings for FLIR Kxx series. Added support for importing video files from FLIR Kxx series. Added support for FLIR C2 camera. Various bug fixes.
New features in version 5.0	<ul style="list-style-type: none"> Local object parameters for measurement tools. Save a report in-process with the ability to edit at a later time. Pull-down menus for text annotations. Variable playback speed for recordings. Show or hide min./max./avg. temperature, and hot/cold markers, for areas and lines. Smoother display for low-resolution images. UltraMax image enhancement. Dropping support for Windows XP. Various bug fixes.
New features in version 4.1	<ul style="list-style-type: none"> Previous/next in Edit mode. Clone in the Library. Extract visual photo from a multispectral image. Import *.mp4, *.seq, and *.csq files from the camera. Playback/edit *.seq and *.csq files. Scale enhancement for the FLIR GF3xx series. Auto resize of thumbnails during importing for the FLIR T6xx series. Grouping/ungrouping now added. Various bug fixes.
New features in version 4.0	<ul style="list-style-type: none"> Support for the new FLIR Ex and Exx series cameras. Interactive quick start guide when connecting a FLIR camera. Improved library view. Support for multispectral images. Support for auto-oriented images. Various bug fixes.
New features in version 3.1	<ul style="list-style-type: none"> Support for FLIR K series cameras. Interactive quick start guide when connecting a FLIR K series camera. Live image streaming from FLIR K series cameras. PC-side configuration of FLIR K series cameras. New report templates for DC images only added. Various bug fixes.
New features in version 3.0	<ul style="list-style-type: none"> Add folder to library. Support for isotherms and color alarms Image description for both IR and DC. Export functionality (*.avi, *.csv). Microsoft Windows 8 (32- and 64-bit) New web installer Various bug fixes.



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Release notes	
New features in version 2.2	<ul style="list-style-type: none"> Camera tab: <ul style="list-style-type: none"> Logging feature in Camera Tab Recording and playback of SEQ files. Various bug fixes.
New features in version 2.1	<ul style="list-style-type: none"> New Text Comment Template Tab: <ul style="list-style-type: none"> Create, Edit and Transfer templates to and from any FLIR Camera. Import and Export of Templates. Support for MSX (Multi-Spectral Dynamic Imaging) Images Support for Sketch Images on both IR and Visual with toggling ON/OFF feature. Support for Same FOV (Field of View Match) Display of Compass Information in Edit and in Report. Display of GPS Information in Edit and in Report. <ul style="list-style-type: none"> Direct Link to Google Maps for GPS Tagged images from Report. Support for 3x5 and 6x5 A-series cameras
New features in version 2.0	<ul style="list-style-type: none"> Camera tab: <ul style="list-style-type: none"> Camera connection with FLIR UVC cameras. Measurement data analysis. Plotting. Snapshot saving with text annotation and plot. Performance improvement for large reports: can now create reports and imagesheets of up to 200 pages. Various bug fixes.
New features in version 1.3	<ul style="list-style-type: none"> Import from ix series cameras. Add and remove a form from a group. Text comments are now saved in the infrared image. The indexing engine can create groups from IR, DC, and text annotations when indexing the paths in the watch folder. Arrow tool in the report toolbar. Reorder pages. Text annotations can now be edited in the report. New report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR). New sample images.
New features in version 1.2 SP1	<ul style="list-style-type: none"> Various bug fixes.
New features in version 1.2	<ul style="list-style-type: none"> Search function: <ul style="list-style-type: none"> Store the five latest search criterias. Search in all texts in images and text annotations. Sort function: <ul style="list-style-type: none"> By date. Groups sorted by by path. Groups sorted by date. Report editor: <ul style="list-style-type: none"> Report page preview. Snap to grid. Various bug fixes.
New features in version 1.1 SP1	<ul style="list-style-type: none"> Extension to the camera update functionality. Various bug fixes
New features in version 1.1	<ul style="list-style-type: none"> Software localized to 21 languages. Camera update. (Exx, T6xx) Option to rotate an infrared image in the infrared editor.

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> Digital download, or CD-ROM
Packaging, weight	0.106 kg (0.23 lb.)



FLIR Tools

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>**Shipping information**

Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005279
UPC-12	845188005481
Country of origin	Sweden

System requirements

Operating system	<ul style="list-style-type: none">• Windows 7, 32-bit• Windows 7, 64-bit• Windows 8, 32-bit• Windows 8, 64-bit• Windows 10, 32-bit• Windows 10, 64-bit
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Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 73309-0102; FLIR A35 f=9 mm with SC kit
- 83225-0101; FLIR A35 FOV 13 (60 Hz, ver. 2017)
- 83213-0102; FLIR A35 FOV 25 (60 Hz, ver. 2017)
- 83207-0102; FLIR A35 FOV 45 (60 Hz, ver. 2017)
- 83250-0101; FLIR A35 FOV 6.5 (60 Hz, ver. 2017)
- 83209-0102; FLIR A35 FOV 69 (30 Hz, ver. 2017)
- 73413-0102; FLIR A65 f=13 mm with SC kit (30 Hz)
- 73513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 75050-0101; FLIR A65 FOV 12.4 (30 Hz, ver. 2016)
- 75025-0101; FLIR A65 FOV 25 (30 Hz, ver. 2016)
- 75013-0101; FLIR A65 FOV 45 (30 Hz, ver. 2016)
- 75010-0101; FLIR A65 FOV 6.2 (30 Hz, ver. 2016)
- 75007-0101; FLIR A65 FOV 90 (30 Hz, ver. 2016)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72001-0101; FLIR C2
- 72002-0202; FLIR C2 Educational Kit
- 72003-0303; FLIR C3 (incl. Wi-Fi)
- 72003-0404; FLIR C3 (incl. Wi-Fi) Educational Kit

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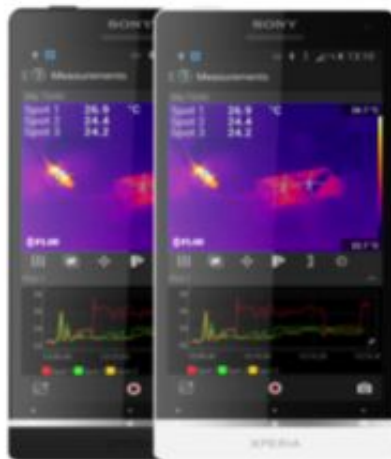
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Website

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Customer support

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General description	
FLIR Tools Mobile is an intuitive Android app for analyzing, managing, and distributing infrared images.	
Key features:	
<ul style="list-style-type: none"> • Remote control • MSX • Images with sketch on DC and IR • Images with field of view follow • Editable text comments • Emissivity table • Import images from your Wi-Fi-enabled camera. • Connect and stream infrared images from the camera. • Connect and stream measurement data from FLIR Test & Measurement meters • Lay out and move measurement tools on the image. • Read out temperature measurements. • Create and configure temporal plots based on results of measurement tools on the infrared image. • Log measurement data and export it as a *.csv file. • Save a measurement scenario as a data snapshot. • Zoom in on images. • On the Android device, remotely take snapshots when a camera is connected. • On the camera, take snapshots that will automatically be saved on the Android device. • Delete images on the Android device. • Display an image's GPS coordinates on Google Maps. • Create and e-mail reports. • Save images in the Android device photo library. • Send images to FTP sites and other file-sharing services (Dropbox, Box.net, etc.). • Display image information, e.g., object parameters, text comments, and file details. • Play back voice comments. • Change the level and span. • Change general settings in the app. • Change the palette. 	
Download	
The application can be downloaded from Android Market or Amazon Marketplace, see the link below.	
https://market.android.com/details?id=com.flir.viewer	
Release notes	
Version	3.8.0
New features	Main improvements in version 3.8.0: <ul style="list-style-type: none"> • Fixed loading of Japanese help files. • Fixed import bug for Samsung S6. • Fixed opening image taken from CAT S60. • Support for Ex, C3, and the new Exx cameras. • Import from Work folders. • Area measurement and length measurement feature based on object distance. • Various bug fixes.



FLIR Tools Mobile (Android Application)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

System requirements

Operating system

- Android 4.03 and later

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



<p>General description</p> <p>FLIR Tools Mobile lets professional thermographers use an iPad, iPhone, or iPod touch to see and capture live, streaming infrared video and stills from select FLIR cameras.</p> <p>With FLIR Tools Mobile the camera can be stationed in one area and operated wirelessly from another – highly useful for IR inspections of energized equipment or performing IR surveys in hard-to-reach locations and harsh working environments. Streaming video and remote access also gives decision makers and others on your team a valuable opportunity to observe and collaborate in the thermal imaging process.</p>
<p>Using FLIR Tools Mobile, you can do one or more of the following:</p> <ul style="list-style-type: none"> • Import images from your infrared camera • Lay out and move measurement tools on the image • Read out temperature measurements • Zoom in on images • On the iPhone/iPad, remotely take snapshots when a camera is connected • On the camera, take snapshots that will automatically be saved in the iPhone/iPad • Delete any images on the iPhone/iPad • Display an image's GPS coordinates on Google Maps • Create and e-mail imagesheets • Create and e-mail reports • Print imagesheets and reports to any AirPrint-enabled printer • Save images to iPhone/iPad photo library • Send images to FTP sites and other file sharing services (Dropbox, Box.net, etc.) • Display image information, such as object parameters, text comments, file information, etc. • Play-back voice comments • Change level and span • Change general settings in the app • Change palette
<p>FLIR Tools Mobile lets you take control of the following features on selected cameras:</p> <ul style="list-style-type: none"> • Remote control of your FLIR camera. • Support for MSX (Multi-Spectral Dynamic Imaging) images. • Support for sketch images in both IR and visual with on/off toggling. • Support for same FOV ("Field of View Match"). • Editable text comments. • Auto and manual focus • Level and span • Color palettes • Temperature measurement analytics • Spot • Area box • Circle • Line • Parameter settings • Emissivity • Reflected temperature • Relative humidity • Atmospheric temperature • IR and visible light image blending • Picture-in-picture • Thermal fusion • Image storage • MPEG 4 video • Radiometric JPEG stills



FLIR Tools Mobile (iPad/iPhone Application)

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Download
The application can be downloaded from App Store, see the link below.
http://itunes.apple.com/app/flir-tools/id511247887?mt=8

Release notes	
Version	1.8.2
New features	Main improvements in version 1.8.2: Various bug fixes.

System requirements	
Operating system	• iOS 8.0 or later
Hardware requirements	• iPhone • iPad • iPod

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

Compared to FLIR Tools, FLIR Tools+ has the following features:

- Radiometric Panorama incl. MSX
- Radiometric IR Video Recording
- Advanced Reporting

FLIR Tools/Tools+ is a software suite specifically designed to provide an easy way to update your camera and create inspection reports.

FLIR Tools+ main features:

- Manual IR/Visual Image Grouping
- Radiometric Panorama incl. MSX
- Radiometric IR Video Recording
- Advanced Reporting for Microsoft Office.
- Report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR).
- Import images from your camera to your computer.
- Apply filters when searching for images.
- Search all text in images and text annotations.
- Store the five latest search criteria's.
- Lay out, move, and resize measurement tools on any infrared image.
- Create PDF imagesheets of any images of your choice.
- Add headers, footers, and logos to imagesheets.
- Create PDF reports for images of your choice.
- Add headers, footers, and logos to reports.
- Report editor (report page preview and snap to grid).
- Sort function (by date, groups sorted by path, and groups sorted by date).
- Browse and purchase infrared cameras, software, and accessories in the webshop.
- Software localized to 21 languages.
- Support for MSX (Multi-Spectral Dynamic Imaging) Images
- Support for Sketch Images on both IR and Visual with toggling ON/OFF feature.
- Support for Same FOV (Field of View Match)
- Display of Compass Information in Edit and in Report.
- Display of GPS Information in Edit and in Report.
- Camera update (applies to FLIR Ex, Kxx, Exx and T6xx series only).

Download

Download a 30-day evaluation version here:

<http://support.flir.com/toolsplus>

Release notes

Version	5.9
New features in version 5.9	<ul style="list-style-type: none"> • Additional trigger options for FLIR K53, K55, and K65 cameras • Added user account registration and login • New Pleora version support • Various bug fixes
New features in version 5.7	<ul style="list-style-type: none"> • Five modes supported for K65, K55, and K53 cameras. • Support for Kx3 cameras. • Auto gain mode now available for K2 cameras. • Various bug fixes.



FLIR Tools+ (download card incl. license key)

P/N: T198583

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Website

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Customer support

<http://support.flir.com>

Release notes	
New features in version 5.5	<ul style="list-style-type: none"> Added support for Microsoft Office 2016 (32-bit) for the FLIR Word Reporting module. Various bug fixes.
New features in version 5.3	<ul style="list-style-type: none"> Support for the FLIR T1020 and T1040 cameras for import, edit, report creation, and camera update. Support for the FLIR K2 camera for configuration, video streaming, and camera update. Delta (difference) readings are now on one line instead of two.
New features in version 5.2.1	<ul style="list-style-type: none"> Option added to change color distribution mode (histogram equalization, signal linear, temperature linear). "Rapid Report" shortcuts added to simplify reporting using a drag-and-drop operation. Option added to extract photos at their full field of view. Two new templates for express export added (Photo_Large and Thermalx1 Photox2). Various bug fixes.
New features in version 5.2	<ul style="list-style-type: none"> Support for auto-adjusting a region. Support for zoom. Express Microsoft Word reporting (*.docx). Various bug fixes.
New features in version 5.1	<ul style="list-style-type: none"> Improved import performance. Added support for video recording settings for FLIR Kxx series. Added support for importing video files from FLIR Kxx series. Added support for FLIR C2 camera. Various bug fixes.
New features in version 5.0	<ul style="list-style-type: none"> Local object parameters for measurement tools. Save a report in-process with the ability to edit at a later time. Pull-down menus for text annotations. Variable playback speed for recordings. Show or hide min./max./avg. temperature, and hot/cold markers, for areas and lines. Smoother display for low-resolution images. UltraMax image enhancement. Dropping support for Windows XP. Various bug fixes.
New features in version 4.1	<ul style="list-style-type: none"> Previous/next in Edit mode. Clone in the Library. Extract visual photo from a multispectral image. Import *.mp4, *.seq, and *.csq files from the camera. Playback/edit *.seq and *.csq files. Scale enhancement for the FLIR GF3xx series. Auto resize of thumbnails during importing for the FLIR T6xx series. Grouping/ungrouping now added. Various bug fixes.
New features in version 4.0	<ul style="list-style-type: none"> Support for the new FLIR Ex and Exx series cameras. Interactive quick start guide when connecting a FLIR camera. Improved library view. Support for multispectral images. Support for auto-oriented images. Various bug fixes.
New features in version 3.1	<ul style="list-style-type: none"> Support for FLIR K series cameras. Interactive quick start guide when connecting a FLIR K series camera. Live image streaming from FLIR K series cameras. PC-side configuration of FLIR K series cameras. New report templates for DC images only added. Various bug fixes.



FLIR Tools+ (download card incl. license key)

P/N: T198583

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Release notes	
New features in version 3.0	<ul style="list-style-type: none">• Add folder to library.• Support for isotherms and color alarms• Image description for both IR and DC.• Export functionality (*.avi, *.csv).• Microsoft Windows 8 (32- and 64-bit)• New web installer• Radiometric panorama with MSX images.• Advanced reports.• Manual grouping/ungrouping of images.• Various bug fixes.
New features in version 2.2	<ul style="list-style-type: none">• Camera tab:<ul style="list-style-type: none">• Logging feature in Camera Tab• Recording and playback of SEQ files.• Various bug fixes.

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• FLIR Tools+ (download card incl. license key)
Packaging, weight	0.059 kg (0.13 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	73325585378 4743254001442 (Estonia plant)
UPC-12	845188005580
Country of origin	Sweden

System requirements	
Operating system	<ul style="list-style-type: none">• Windows 7, 32-bit• Windows 7, 64-bit• Windows 8, 32-bit• Windows 8, 64-bit• Windows 10, 32-bit• Windows 10, 64-bit
Software requirements	<ul style="list-style-type: none">• Office 2007 (32-bit)• Office 2010 (32-bit)• Office 2013 (32-bit)• Office 2016 (32-bit)

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 73309-0102; FLIR A35 f=9 mm with SC kit
- 83225-0101; FLIR A35 FOV 13 (60 Hz, ver. 2017)
- 83213-0102; FLIR A35 FOV 25 (60 Hz, ver. 2017)
- 83207-0102; FLIR A35 FOV 45 (60 Hz, ver. 2017)
- 83250-0101; FLIR A35 FOV 6.5 (60 Hz, ver. 2017)
- 83209-0102; FLIR A35 FOV 69 (30 Hz, ver. 2017)
- 73413-0102; FLIR A65 f=13 mm with SC kit (30 Hz)
- 73513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 75050-0101; FLIR A65 FOV 12.4 (30 Hz, ver. 2016)
- 75025-0101; FLIR A65 FOV 25 (30 Hz, ver. 2016)
- 75013-0101; FLIR A65 FOV 45 (30 Hz, ver. 2016)
- 75010-0101; FLIR A65 FOV 6.2 (30 Hz, ver. 2016)
- 75007-0101; FLIR A65 FOV 90 (30 Hz, ver. 2016)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 84502-0201; FLIR E53 24°
- 78501-0101; FLIR E75 14°
- 78502-0101; FLIR E75 24°
- 78504-0101; FLIR E75 24° + 14°
- 78506-0101; FLIR E75 24° + 14° & 42°
- 78505-0101; FLIR E75 24° + 42°
- 78503-0101; FLIR E75 42°
- 78507-0101; FLIR E75 42° + 14°
- 78501-0201; FLIR E85 14°
- 78502-0201; FLIR E85 24°
- 78504-0201; FLIR E85 24° + 14°
- 78506-0201; FLIR E85 24° + 14° & 42°
- 78505-0201; FLIR E85 24° + 42°
- 78503-0201; FLIR E85 42°
- 78507-0201; FLIR E85 42° + 14°
- 78501-0301; FLIR E95 14°
- 78502-0301; FLIR E95 24°
- 78504-0301; FLIR E95 24° + 14°
- 78506-0301; FLIR E95 24° + 14° & 42°
- 78505-0301; FLIR E95 24° + 42°
- 78503-0301; FLIR E95 42°
- 78507-0301; FLIR E95 42° + 14°
- 63901-0101; FLIR E4
- 63906-0604; FLIR E4 (incl. Wi-Fi)
- 63905-0501; FLIR E5
- 63909-0904; FLIR E5 (incl. Wi-Fi)
- 63902-0202; FLIR E6
- 63907-0704; FLIR E6 (incl. Wi-Fi)
- 63903-0303; FLIR E8
- 63908-0805; FLIR E8 (incl. Wi-Fi)
- 79301-0101; FLIR T530 14°
- 79302-0101; FLIR T530 24°
- 79304-0101; FLIR T530 24° + 14°
- 79306-0101; FLIR T530 24° + 14° & 42°
- 79305-0101; FLIR T530 24° + 42°
- 79303-0101; FLIR T530 42°
- 79307-0101; FLIR T530 42° + 14°
- 79301-0201; FLIR T540 14°
- 79302-0201; FLIR T540 24°
- 79304-0201; FLIR T540 24° + 14°



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 79306-0201; FLIR T540 24° + 14° & 42°
- 79305-0201; FLIR T540 24° + 42°
- 79303-0201; FLIR T540 42°
- 79307-0201; FLIR T540 42° + 14°
- 72001-0101; FLIR C2
- 72002-0202; FLIR C2 Educational Kit
- 72003-0303; FLIR C3 (incl. Wi-Fi)
- 72003-0404; FLIR C3 (incl. Wi-Fi) Educational Kit

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Website

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Customer support

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General description

Rugged, watertight plastic shipping case for FLIR T6xx and FLIR T10xx series. Holds all items neatly and securely. The case can be locked with padlocks and features a breather valve to prevent pressure build-up in airplane cargo holds.

Physical data

Weight	2.63 kg (5.8 lb.)
Size (L x W x H)	484 x 345 x 178 mm (19.1 x 13.6 x 7.0 in.)
Material	PP with Rubber Blend (Polypropylene)
Color	Black

Shipping information

Packaging, type	Cardboard box
List of contents	• Hard transport case
Packaging, weight	2.93 kg (6.45 lb.)
Packaging, size	495 x 370 x 192 mm (19.5 x 14.6 x 7.6 in.)
EAN-13	7332558008386
UPC-12	845188008734
Country of origin	Sweden

Compatible with the following products:

- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)



Hard transport case

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)

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Disclaimer

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

This cable is used to connect the infrared camera with an external display.

Physical data

Weight	159 g (5.6 oz.)
Cable length	1.5 m (4.9 ft.)
Connector	HDMI type C to DVI

Shipping information

Packaging, type	Cardboard box
Packaging, weight	221 g (7.8 oz.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558006290
UPC-12	845188006648
Country of origin	Sweden

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)



HDMI type C to DVI cable 1.5 m

P/N: T910930ACC

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)

P/N: T910891ACC

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
This cable is used to connect the infrared camera with an external display.	

Physical data	
Weight	137 g (4.8 oz.)
Cable length	1.5 m (4.9 ft.)
Connector	HDMI type C to HDMI type A

Shipping information	
Packaging, type	Cardboard box
Packaging, weight	201 g (7.1 oz.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558006306
UPC-12	845188006655
Country of origin	Sweden

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)



HDMI type C to HDMI type A cable 1.5 m

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)

P/N: T197896

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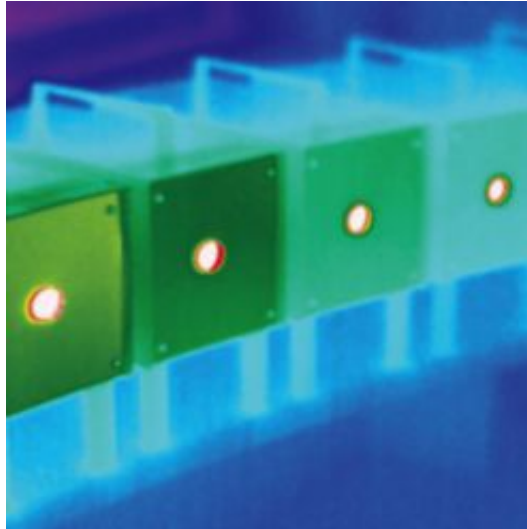
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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

For high temperature applications the camera can be calibrated for high temperature ranges.

Measurement

Optional object temperature range	+300°C to +2000°C (+572°F to +3632°F)
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Compatible with the following products:

- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)



High temperature option +300°C to 2000°C (+572°F to 3632°F)

P/N: T197896

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

P/N: T197915

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

This wide angle lens has a field of view almost double that of the standard 25° lens. Perfect for wide or tall targets or when working in confined areas.

Imaging and optical data

Field of view (FOV)	45° × 34° (55° diagonally)
Minimum focus distance	150 mm (5.91 in.)
Focal length	13.1 mm (0.52 in.)
Spatial resolution (IFOV)	1.30 mrad
Lens identification	Automatic
F-number	1.0
Number of lenses	3 (3 asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	3%

Physical data

Weight	0.209 kg (0.461 lb.)
Size (L × D)	50 × 67 mm (1.97 × 2.64 in.)
Front lens diameter	30 mm (1.18 in.)

Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Lens • Lens case • Front lens cap • Rear lens cap
Packaging, weight	0.430 kg (0.95 lb.)
Packaging, size	172 × 131 × 133 mm (6.8 × 5.2 × 5.2 in.)
EAN-13	7332558004463
UPC-12	845188002688
Country of origin	Sweden

Compatible with the following products:

- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)



IR lens, f=13.1 mm (45°) with case

P/N: T197915

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

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Website

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Customer support

<http://support.flir.com>



General description	
The standard 25° lens is suitable for the majority of applications.	
Imaging and optical data	
Field of view (FOV)	25° × 19° (31° diagonally)
Minimum focus distance	250 mm (9.84 in.)
Focal length	24.6 mm (0.97 in.)
Spatial resolution (IFOV)	0.69 mrad
Lens identification	Automatic
F-number	1.0
Number of lenses	3 (3 asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	3%
Physical data	
Weight	0.160 kg (0.353 lb.)
Size (L × D)	41 × 67 mm (1.61 × 2.64 in.)
Front lens diameter	32 mm (1.26 in.)
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Lens • Lens case • Front lens cap • Rear lens cap
Packaging, weight	0.380 kg (0.84 lb.)
Packaging, size	174 × 133 × 133 mm (6.9 × 5.2 × 5.2 in.)
EAN-13	7332558004432
UPC-12	845188004439
Country of origin	Sweden

Compatible with the following products:

- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)

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- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

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Website

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Customer support

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General description

The 15° lens is a popular lens accessory and provides 1.7x magnification compared to the standard lens. Ideal for small or distant targets such as overhead power lines.

Imaging and optical data

Field of view (FOV)	15° × 11° (19° diagonally)
Minimum focus distance	500 mm (19.69 in.)
Focal length	41.3 mm (1.63 in.)
Spatial resolution (IFOV)	0.41 mrad
Lens identification	Automatic
F-number	1.0
Number of lenses	3 (3 asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	3%

Physical data

Weight	0.190 kg (0.419 lb.)
Size (L × D)	47 × 67 mm (1.85 × 2.64 in.)
Front lens diameter	52 mm (2.05 in.)

Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Lens • Lens case • Front lens cap • Rear lens cap
Packaging, weight	0.427 kg (0.95 lb.)
Packaging, size	174 × 133 × 133 mm (6.85 × 5.24 × 5.24 in.)
EAN-13	7332558004449
UPC-12	845188002671
Country of origin	Sweden

Compatible with the following products:

- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)



IR lens, f=41.3 mm (15°) with case

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Website

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Customer support

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- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

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Website

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Customer support

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General description

This wide angle lens has a field of view approximately three times that of the standard 25° lens. This lens is suitable for extremely cramped situations where the operator can not step farther back from the object.

Imaging and optical data

Field of view (FOV)	80° × 64.4° (92.8° diagonal)
Minimum focus distance	65 mm (2.6 in.)
Focal length	6.5 mm (0.26 in.)
Spatial resolution (IFOV)	2.62 mrad
Lens identification	Automatic
F-number	1.0
Number of lenses	5 (5 asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	5%

Physical data

Weight	0.428 kg (0.944 lb.)
Size (L × D)	126 × 67 mm (4.96 × 2.64 in.)
Front lens diameter	25 mm 0.98 in.)

Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Lens • Lens case • Front lens cap • Rear lens cap
Packaging, weight	0.680 kg (1.5 lb.)
Packaging, size	174 × 133 × 133 mm (6.9 × 5.2 × 5.2 in.)
EAN-13	7332558004418
UPC-12	845188004415
Country of origin	Sweden

Compatible with the following products:

- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)



IR lens, f=6.5 mm (80°) with case

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Website

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Customer support

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- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°

P/N: T198166

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

The 7° lens is a popular accessory and provides 3.6× magnification compared to the standard lens. Ideal for small or distant targets such as overhead power lines.

Imaging and optical data

Field of view (FOV)	7° × 5.3° (8.7° diagonally)
Minimum focus distance	2.0 m (6.6 ft.)
Focal length	88.9 mm (3.5 in.)
Spatial resolution (IFOV)	0.19 mrad
Lens identification	Automatic
F-number	1.3
Number of lenses	3 (3 asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	3%

Physical data

Weight	0.77 kg (0.70 lb.)
Weight, lens	0.71 kg (1.57 lb.)
Size (L × D)	96 × 126 mm (3.78 × 4.96 in.), excluding support
Front lens diameter	96 mm (3.78 in.)

Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Lens • Lens case • Front lens cap • Rear lens cap • Mounting support • Lens mounting instructions
Packaging, weight	1.63 kg (3.58 lb.)
Packaging, size	385 × 308 × 165 mm (15.2 × 12.1 × 6.5 in.)
EAN-13	7332558004425
UPC-12	845188004422
Country of origin	Sweden

Compatible with the following products:

- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case



IR lens, f=88.9 mm (7°) with case and support for T6xx

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- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)

P/N: 19250-100

Revision

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Website

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Customer support

<http://support.flir.com>



General description	
This device is a viewport which consist of a crystal "glass" window, mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared light to allow use of infrared thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.	

Power system	
Voltage	Any range

Environmental data	
Environment	Indoor/outdoor type 4/12
Operating temperature range	Maximum: 260°C (500°F)
Storage temperature range	Optics, maximum: 1357°C (2474°F)

Physical data	
Size (L x W x H)	25.5 x 73 x 86 mm (1.0 x 2.87 x 3.36 in.)
Viewing aperture diameter	45 mm (1.77 in.)
Material	Optics: CaF2 (Calcium Fluoride Crystal) Body: Anodized aluminum Hardware: steel
Comments to physical data	Required hole diameter, nominal: 60.3 mm (2.375 in.) Greenlee Punch: 76BB Maximum pullout strength: 658 kg (1450 lb.)

Lens	
Waveband	Broadband IR: short-, mid-, and longwave
Visible light spectrum	Yes

Certifications	
Certification	UL, IP67, NEMA Type 4/12, CSA

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • IR window • Case • Mounting instruction • Additional safety screw
Packaging, weight	0.24 kg (0.53 lb.)
Packaging, size	120 x 115 x 40 mm (4.7 x 4.5 x 1.6 in.)



IR Window 2 in

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Customer support

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Shipping information	
EAN-13	4743254000728
UPC-12	845188002817
Country of origin	Estonia

Supplies & accessories:

P/N: 19251-100

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General description	
This device is a viewport which consist of a crystal "glass" window, mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared light to allow use of infrared thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.	

Power system	
Voltage	Any range

Environmental data	
Environment	Indoor/outdoor type 4/12
Operating temperature range	Maximum: 260°C (500°F)
Storage temperature range	Optics, maximum: 1357°C (2474°F)

Physical data	
Size (L x W x H)	26.9 x 99 x 107 mm (1.05 x 3.89 x 4.22 in.)
Viewing aperture diameter	69 mm (2.71 in.)
Material	Optics: CaF2 (Calcium Fluoride Crystal) Body: Anodized aluminum Hardware: steel
Comments to physical data	Required hole diameter, nominal: 88.9 mm (3.5 in.) Greenlee Punch: 739BB Maximum pullout strength: 1656 kg (3650 lb.)

Lens	
Waveband	Broadband IR: short-, mid-, and longwave
Visible light spectrum	Yes

Certifications	
Certification	UL, IP67, NEMA Type 4/12, CSA

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> IR window Case Mounting instruction Additional safety screw
Packaging, weight	0.39 kg (0.86 lb.)
Packaging, size	130 x 140 x 40 mm (5.12 x 5.51 x 1.58 in.)
EAN-13	4743254000735



IR Window 3 in.

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Customer support

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Shipping information

UPC-12

845188002824

Country of origin

Estonia

Supplies & accessories:

P/N: 19252-100

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Website

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Customer support

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General description	
This device is a viewport which consist of a crystal "glass" window, mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared light to allow use of infrared thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.	
Power system	
Voltage	Any range
Environmental data	
Environment	Indoor/outdoor type 4/12
Operating temperature range	Maximum: 260°C (500°F)
Storage temperature range	Optics, maximum: 1357°C (2474°F)
Physical data	
Size (L x W x H)	29.3 x 127 x 137 mm (1.15 x 5.01 x 5.37 in.)
Viewing aperture diameter	89 mm (3.50 in.)
Material	Optics: CaF2 (Calcium Fluoride Crystal) Body: Anodized aluminum Hardware: steel
Comments to physical data	Required hole diameter, nominal: 114.3 mm (4.5 in.) Greenlee Punch: 742BB Maximum pullout strength: 1678 kg (3700 lb.)
Lens	
Waveband	Broadband IR: short-, mid-, and longwave
Visible light spectrum	Yes
Certifications	
Certification	UL, IP67, NEMA Type 4/12, CSA
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> IR window Case Mounting instruction Additional safety screw
Packaging, weight	0.46 kg (1.01 lb.)
Packaging, size	165 x 175 x 40 mm (6.50 x 6.89 x 1.58 in.)



IR Window 4 in.

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Customer support

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Shipping information

EAN-13	4743254000742
UPC-12	845188002831
Country of origin	Estonia

Supplies & accessories:

P/N: T198497

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General description	
Soft eyecup for the viewfinder on the camera.	

Physical data	
Color	Black

Shipping information	
Packaging, type	Cardboard box
List of contents	• Eyecup
Packaging, weight	0.068 kg (0.15 lb.)
Packaging, size	170 × 64 × 75 mm (6.7 × 2.5 × 3.0 in.)
EAN-13	7332558004388
UPC-12	845188004385
Country of origin	Sweden

Compatible with the following products:

- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)



Large eyecup

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Website

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Customer support

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- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)

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General description	
High capacity battery for the IR camera.	

Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	3.7 V
Battery capacity	7.8 Ah
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 90% capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)

Environmental data	
Battery storage temperature range	-40°C to +70°C (-40°F to +158°F)

Physical data	
Battery weight	0.173 kg (0.38 lb.)
Size (L x W x H)	84 x 49 x 60 mm (3.3 x 1.9 x 2.4 in.)

Shipping information	
Packaging, type	Cardboard box
Packaging, weight	0.272 kg (0.6 lb.)
Packaging, size	183 x 136 x 63 mm (7.2 x 5.4 x 2.5 in.)
EAN-13	7332558004456
UPC-12	845188004453
Country of origin	Sweden

Compatible with the following products:

- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0103; FLIR T1020 45°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)



Li-Ion Battery pack 3.7V 29Wh

P/N: T198506

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)

P/N: T911650ACC

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Website

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Customer support

<http://support.flir.com>



General description	
SD Card for data storage (e.g. images)	
Data communication interfaces	
Memory card, size	8 GB
Physical data	
Weight	2 g (0.07 oz.)
Size (L x W x H)	32.0 x 24.0 x 2.1 mm (1.26 x 0.94 x 0.08 in.)
Shipping information	
Packaging, type	Cardboard box
List of contents	• SD Card
Packaging, weight	65 g (2.3 oz.)
Packaging, size	170 x 64 x 75 mm (6.69 x 2.52 x 2.95 in.)
EAN-13	7332558012628
UPC-12	845188013776
Country of origin	Sweden

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)



Memory card SDHC 8 GB

P/N: T911650ACC

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 74902-0101; FLIR GFx320 14.5° fixed lens
- 74902-0102; FLIR GFx320 24° fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)



Memory card SDHC 8 GB

P/N: T911650ACC

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<http://support.flir.com>

- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

P/N: T198499

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Website

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Customer support

<http://support.flir.com>



General description

Neck strap to carry the camera.

Physical data

Color	Black
-------	-------

Shipping information

Packaging, type	Cardboard box
List of contents	• Neck strap
Packaging, weight	0.168 kg (0.37 lb.)
Packaging, size	183 × 136 × 63 mm (7.2 × 5.4 × 2.5 in.)
EAN-13	7332558004401
UPC-12	845188004408
Country of origin	Sweden

Compatible with the following products:

- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)



Neck strap

P/N: T198499

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Website

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Customer support

<http://support.flir.com>

- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)

P/N: T199836

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Website

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Customer support

<http://support.flir.com>



General description

The Extended Warranty Package covers parts and labour for your IR camera, consumables not included.

FLIR Systems warrants its products to be free from defects caused by faulty material or poor workmanship, for a period specified above. **NO PRODUCT IS WARRANTED TO BE MERCHANTABILITY OR FIT FOR ANY PARTICULAR USE OR APPLICATION.** The warranty is void if the buyer damages the item due to misuse, abuse, modification, processing, or integration with other items. FLIR Systems' maximum liability under this warranty is limited to the obligation to replace or, at its sole option, to credit Buyer's account up to the purchase price.

Download

Contact info can be found at:

<http://support.flir.com>

Compatible with the following products:

- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)



One year extended warranty for T6xx series

P/N: T199836

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)

P/N: T198495

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Website

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Customer support

<http://support.flir.com>



General description

Pouch, with shoulder strap, to carry and protect the camera, made in durable nylon. The pouch can be used together with the tool belt.

Physical data

Weight	0.27 kg (0.60 lb.), excluding shoulder strap
Size (L x W x H)	200 x 110 x 185 mm (7.9 x 4.3 x 7.3 in.), excluding shoulder strap
Color	black

Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> Pouch Strap
Packaging, weight	0.625 kg (1.38 lb.)
Packaging, size	303 x 206 x 128 mm (11.9 x 8.1 x 5.0 in.)
EAN-13	7332558004500
UPC-12	845188004477
Country of origin	Sweden

Compatible with the following products:

- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)

P/N: T198495

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 79301-0101; FLIR T530 14°
- 79302-0101; FLIR T530 24°
- 79304-0101; FLIR T530 24° + 14°
- 79306-0101; FLIR T530 24° + 14° & 42°
- 79305-0101; FLIR T530 24° + 42°
- 79303-0101; FLIR T530 42°
- 79307-0101; FLIR T530 42° + 14°
- 79301-0201; FLIR T540 14°
- 79302-0201; FLIR T540 24°
- 79304-0201; FLIR T540 24° + 14°
- 79306-0201; FLIR T540 24° + 14° & 42°
- 79305-0201; FLIR T540 24° + 42°
- 79303-0201; FLIR T540 42°
- 79307-0201; FLIR T540 42° + 14°

P/N: T910814

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Website

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General description	
FLIR P/B/SC6xx and FLIR GF3xx series: Power supply, including multiple plugs, to charge the battery when it is inside or outside of the camera.	
FLIR T6xx and FLIR Exx series: Power supply, including multiple plugs, to charge the battery when it is inside the camera or in the battery charger.	
Power system	
AC operation	100–240 VAC, 50/60 Hz, 12 VDC out
Power	3000 mA at 12 VDC
Physical data	
Cable length	1.98 m (6.5 ft.)
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Power supply including cable • EU plug • UK plug • US plug • AU plug
Packaging, weight	0.324 kg (9.7 lb.)
Packaging, size	152 × 78 × 73 mm (6.0 × 3.1 × 2.9 in.)
EAN-13	7332558003794 4743254001763 (Estonia plant)
UPC-12	845188002145
Country of origin	Sweden

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°

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Website

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Customer support

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- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens



Power supply, incl. multi plugs

P/N: T910814

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 74902-0101; FLIR GFx320 14.5° fixed lens
- 74902-0102; FLIR GFx320 24° fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

P/N: 19250-200

Revision

34465

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Part name	IRW-2S
Material number	19250-200
Part description	Stainless steel IR window, 2" diameter
<p>This device is a viewport that consist of a crystal "glass" window mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared (IR) light to allow use of IR thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.</p>	

Power system	
Voltage	Any range

Lens	
Waveband	Broadband IR: short-, mid-, and longwave
Visible light spectrum	Yes

Certifications	
Certifications	UL, IP67, NEMA Type 4/12, CSA

Physical data	
Weight	0.5 kg (1 lb.)
Dimensions (H x W x L)	26.9 mm x 99 mm x 107 mm (1.05" x 3.89" x 4.22")
Material	Optics: CaF ₂ (calcium fluoride crystal). Body: stainless steel AISI 316. Hardware: steel
Color	Metallic silver

Shipping information	
Packaging type	Color box
Packaging contents	<ul style="list-style-type: none"> IR window Case Mounting instructions Additional safety screw
Unit weight	0.54 kg (1.2 lb)
Each dimensions (H x W x L)	38.1 mm x 107.95 mm x 127 mm (1.5" x 4.25" x 5")
EAN-13	4743254001510



SS IR window 2''

P/N: 19250-200

Revision

34465

Last modified

2016-03-18 15:41 UTC+1

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Shipping information	
UPC-12	845188007584
Country of origin	Estonia
Tariff Code	9027.90.5450

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Supplies and accessories

P/N: 19251-200

Revision

34467

Last modified

2016-03-18 15:43 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Part name	IRW-3S
Material number	19251-200
Part description	Stainless steel IR window, 3" diameter
<p>This device is a viewport that consist of a crystal "glass" window mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared (IR) light to allow use of IR thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.</p>	
Power system	
Voltage	Any range
Environmental	
Environment	Indoor/outdoor type 4/12
Operating temperature range	Maximum: 260°C (500°F)
Storage temperature range	Optics, maximum: 1357°C (2474°F)
Certifications	
Certifications	UL, IP67, NEMA Type 4/12, CSA
Physical data	
Weight:	0.7 kg (1.55 lb.)
Dimensions (H x W x L)	26.9 mm x 99 mm x 107 mm (1.05" x 3.89" x 4.22")
Material	Optics: CaF ₂ (calcium fluoride crystal). Body: stainless steel AISI 316. Hardware: steel
Color	Metallic silver
Lens	
Waveband	Broadband IR: short-, mid-, and longwave
Visible light spectrum	Yes
Shipping information	
Packaging type	Color box



SS IR window 3"

P/N: 19251-200

Revision

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Shipping information	
Packaging contents	<ul style="list-style-type: none">• IR window• Case• Mounting instruction• Additional safety screw
Unit weight	0.77 kg (1.7 lb.)
Unit dimensions (H x W x L)	38.1 mm x 127 mm x 139.7 mm (1.5" x 5" x 5.5")
EAN-13	4743254001527
UPC-12	845188007591
Country of origin	Estonia
Tariff code	9027.90.5450

Technical support	
Website	http://support.flir.com
E-mail	TMSupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Supplies and accessories

P/N: 19252-200

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Part name	IRW-4S
Material number	19252-200
Part description	Stainless steel IR window, 4" diameter
<p>This device is a viewport that consist of a crystal "glass" window mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared (IR) light to allow use of IR thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.</p>	

Power system	
Voltage	Any range

Environmental	
Environment	Indoor/outdoor type 4/12
Operating temperature range	Maximum: 260°C (500°F)
Storage temperature range	Optics, maximum: 1357°C (2474°F)

Certifications	
Certifications	UL, IP67, NEMA Type 4/12, CSA

Physical data	
Weight:	1.18 kg (2.6 lb.)
Dimensions (H x W x L)	26.9 mm x 99 mm x 107 mm (1.05" x 3.89" x 4.22")
Material	Optics: CaF ₂ (calcium fluoride crystal). Body: stainless steel AISI 316. Hardware: steel
Color	Metallic silver

Lens	
Waveband	Broadband IR: short-, mid-, and longwave
Visible light spectrum	Yes

Shipping information	
Packaging type	Color box
Packaging contents	<ul style="list-style-type: none"> IR window Case Mounting instruction Additional safety screw
Unit weight	1.32 kg (2.9 lb.)



SS IR window 4"

P/N: 19252-200

Revision

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Shipping information	
Unit dimensions (H x W x L)	38.1 mm x 165.1 mm x 177.8 mm (1.5" x 6.5" x 7")
EAN-13	4743254001534
UPC-12	845188007607
Country of origin	Estonia
Tariff code	9027.90.5450

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Supplies and accessories

P/N: T911093

Revision

42932

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2017-05-30 15:32 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

Tool belt for FLIR camera pouches.

Physical data

Weight	0.117 kg (0.26 lb.)
Length	1.44 m (4.7 ft.)
Color	Black

Shipping information

Packaging, type	Cardboard box
List of contents	• Tool belt
Packaging, weight	0.318 kg (0.7 lb.)
Packaging, size	243 × 165 × 82 mm (9.6 × 6.5 × 3.2 in.)
EAN-13	7332558003442 4743254000384 (Estonia plant)
UPC-12	845188003210
Country of origin	Estonia

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)

P/N: T911093

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 63901-0101; FLIR E4
- 63906-0604; FLIR E4 (incl. Wi-Fi)
- 63905-0501; FLIR E5
- 63909-0904; FLIR E5 (incl. Wi-Fi)
- 63902-0202; FLIR E6
- 63907-0704; FLIR E6 (incl. Wi-Fi)
- 63903-0303; FLIR E8
- 63908-0805; FLIR E8 (incl. Wi-Fi)

P/N: T198498

Revision

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Website

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Customer support

<http://support.flir.com>



General description	
Tripod adapter, necessary accessory to be able to mount the camera on a tripod.	
Physical data	
Size (L x W x H)	60x 36 x 20 mm (2.4 x 1.4 x 0.8 in.)
Color	Black
Shipping information	
Packaging, type	Cardboard box
List of contents	• Tripod Adapter
Packaging, weight	0.075 kg (0.17 lb.)
Packaging, size	170 x 64 x 75 mm (6.7 x 2.5 x 3.0 in.)
EAN-13	7332558004395
UPC-12	845188004392
Country of origin	Sweden

Compatible with the following products:

- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)

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Website

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Customer support

<http://support.flir.com>

- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)

P/N: 1910423

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

This cable is used to connect the infrared camera with a computer, using the USB protocol.

Physical data

Weight	60 g (2.1 oz.)
Cable length	1.8 m (5.9 ft.)
Connector	Standard USB-A to USB Mini-B

Shipping information

Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558003428
UPC-12	845188002176
Country of origin	Sweden

Compatible with the following products:

- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case

P/N: 1910423

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 74902-0101; FLIR GFx320 14.5° fixed lens
- 74902-0102; FLIR GFx320 24° fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72203-0411; FLIR K33
- 72203-0511; FLIR K53
- 72201-0106; FLIR K45
- 72201-0206; FLIR K55
- 72202-0303; FLIR K65

Accessories for FLIR T10xx series

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P/N: T198126

Revision

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Website

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Customer support

<http://support.flir.com>



General description	
Stand-alone 2-bay battery charger, including power supply with multi plugs.	
Physical data	
Size (L x W x H)	50 x 133 x 50 mm (2.0 x 5.2 x 2.0 in.)
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Stand-alone 2-bay battery charger • Power supply including cable • EU plug • UK plug • US plug • AU plug
Packaging, weight	0.653 kg (1.4 lb.)
Packaging, size	243 x 165 x 82 mm (9.6 x 6.5 x 3.2 in.)
EAN-13	7332558005019
UPC-12	845188005016
Country of origin	Sweden

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)



Battery charger, incl. power supply with multi plugs T6xx

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Website

<http://www.flir.com>

Customer support

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- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)

P/N: T199364ACC

Revision

45582

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
High capacity battery for the IR camera.	
Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	3.65 V
Battery capacity	8.5 Ah
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 90% capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
Environmental data	
Battery storage temperature range	-40°C to +70°C (-40°F to +158°F)
Physical data	
Battery weight	0.182 kg (0.40 lb.)
Size (L x W x H)	84 x 49 x 60 mm (3.3 x 1.9 x 2.4 in.)
Shipping information	
Packaging, type	Cardboard box
Packaging, weight	0.281 kg (0.62 lb.)
Packaging, size	183 x 136 x 63 mm (7.2 x 5.4 x 2.5 in.)
EAN-13	7332558011799
UPC-12	845188012885
Country of origin	Sweden

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°



Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

Headset with Bluetooth for wireless connection with the infrared camera.

Data communication interfaces

Bluetooth	Connection to the infrared camera
Audio	Headset including microphone

Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Headset • Ear clip • Charger • Multi plugs • USB cable Std A to Mini-B
Packaging, weight	278 g (9.8 oz.)
Packaging, size	183 × 136 × 63 mm (7.2 × 5.35 × 2.48 in.)
EAN-13	7332558006337
UPC-12	845188006686
Country of origin	Sweden

Compatible with the following products:

- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)



Bluetooth Headset

P/N: T197771ACC

Revision

42932

Last modified

2017-05-30 15:32 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 84502-0201; FLIR E53 24°
- 78501-0101; FLIR E75 14°
- 78502-0101; FLIR E75 24°
- 78504-0101; FLIR E75 24° + 14°
- 78506-0101; FLIR E75 24° + 14° & 42°
- 78505-0101; FLIR E75 24° + 42°
- 78503-0101; FLIR E75 42°
- 78507-0101; FLIR E75 42° + 14°
- 78501-0201; FLIR E85 14°
- 78502-0201; FLIR E85 24°
- 78504-0201; FLIR E85 24° + 14°
- 78506-0201; FLIR E85 24° + 14° & 42°
- 78505-0201; FLIR E85 24° + 42°
- 78503-0201; FLIR E85 42°
- 78507-0201; FLIR E85 42° + 14°
- 78501-0301; FLIR E95 14°
- 78502-0301; FLIR E95 24°
- 78504-0301; FLIR E95 24° + 14°
- 78506-0301; FLIR E95 24° + 14° & 42°
- 78505-0301; FLIR E95 24° + 42°
- 78503-0301; FLIR E95 42°
- 78507-0301; FLIR E95 42° + 14°
- 79301-0101; FLIR T530 14°
- 79302-0101; FLIR T530 24°
- 79304-0101; FLIR T530 24° + 14°
- 79306-0101; FLIR T530 24° + 14° & 42°
- 79305-0101; FLIR T530 24° + 42°
- 79303-0101; FLIR T530 42°
- 79307-0101; FLIR T530 42° + 14°
- 79301-0201; FLIR T540 14°
- 79302-0201; FLIR T540 24°



Bluetooth Headset

P/N: T197771ACC

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 79304-0201; FLIR T540 24° + 14°
- 79306-0201; FLIR T540 24° + 14° & 42°
- 79305-0201; FLIR T540 24° + 42°
- 79303-0201; FLIR T540 42°
- 79307-0201; FLIR T540 42° + 14°

P/N: T198509

Revision

42932

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Website

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Customer support

<http://support.flir.com>



General description
This cable is used to power the infrared camera from the cigarette lighter socket in a car.
Note: This is the same product as p/n 1196497.

Physical data	
Cable length	1.2 m (3.9 ft.)

Shipping information	
Packaging, type	Cardboard box
Packaging, weight	0.125 kg (0.28 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558004340 4743254001435 (Estonia plant)
UPC-12	845188004361
Country of origin	Sweden

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)



Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.

P/N: T198509

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 74902-0101; FLIR GFx320 14.5° fixed lens
- 74902-0102; FLIR GFx320 24° fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72203-0411; FLIR K33



Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.

P/N: T198509

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Website

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Customer support

<http://support.flir.com>

- 72203-0511; FLIR K53
- 72201-0106; FLIR K45
- 72201-0206; FLIR K55
- 72202-0303; FLIR K65

P/N: T199065

Revision

30226

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Website

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Customer support

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General description	
The close-up lens is attached to the standard 28° IR lens and provides three times magnification. The close-up lens is intended for R&D usage or development purposes. As an example, for studies of PCBs and small electronic components.	

Imaging and optical data	
Field of view (FOV)	52° × 40° (66° diagonal)
Magnifying factor	3x
Working distance	97 mm (3.8 in.)
Depth of field	0.5 mm (0.02 in.)
Focal length	50 mm (2.0 in.)
Spatial resolution (IFOV)	51 μm
Lens identification	No
F-number	1.15
Number of lenses	2 (2 asph)
Distortion	0.4%

Physical data	
Weight	0.620 kg (1.37 lb.)
Size (L × D)	127.5 × 91 mm (5.02 × 3.58 in.)
Front lens diameter	76 mm (3.0 in.)

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Lens • Lens case • Front lens cap • Rear lens cap • Mounting instruction
Packaging, weight	0.96 kg (2.1 lb.)
Packaging, size	173 × 135 × 135 mm (6.81 × 5.31 × 5.31 in.)
EAN-13	7332558011003
UPC-12	845188011857
Country of origin	Sweden



Close-up lens 3× (51 μm) with case

P/N: T199065

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Website

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Customer support

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Compatible with the following products:

- 72502-0502; FLIR T1010 28°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0202; FLIR T1030sc 28°
- 72501-0302; FLIR T1040 28°
- 72501-0402; FLIR T1050sc 28°

P/N: T199233

Revision

32685

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Website

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Customer support

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General description	
The FLIR Atlas SDK for .NET is a software development kit that enables developers to create applications. Supported by help files and sample code, developers can add functionality or collaborate with other FLIR products to get the result they want in their application.	
Key features:	
<ul style="list-style-type: none"> • Supports communication and streaming using FireWire, Gigabit, RTSP, and USB interfaces. • Gives the user full control of the camera. • Supports recording of images using FireWire, Gigabit, RTSP, and USB interfaces. • Converts 16-bit signal pixels into temperature data, for maximum user flexibility. • Allows 16-bit temperature linear, histogram, and signal outputs. 	
Release notes	
Version	3.1
Shipping information	
Packaging, type	Cardboard box
List of contents	Download card with printed license key
Packaging, weight	0.056 kg (0.123 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558011126
UPC-12	845188012014
Country of origin	Sweden
System requirements	
Operating system	<ul style="list-style-type: none"> • Windows 7 (32- and 64-bit) • Windows 8 (32- and 64-bit) • Windows 10 (32- and 64-bit)

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case

P/N: T199233

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 73309-0102; FLIR A35 f=9 mm with SC kit
- 83225-0101; FLIR A35 FOV 13 (60 Hz, ver. 2017)
- 83213-0102; FLIR A35 FOV 25 (60 Hz, ver. 2017)
- 83207-0102; FLIR A35 FOV 45 (60 Hz, ver. 2017)
- 83250-0101; FLIR A35 FOV 6.5 (60 Hz, ver. 2017)
- 83209-0102; FLIR A35 FOV 69 (30 Hz, ver. 2017)
- 73413-0102; FLIR A65 f=13 mm with SC kit (30 Hz)
- 73513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 75050-0101; FLIR A65 FOV 12.4 (30 Hz, ver. 2016)
- 75025-0101; FLIR A65 FOV 25 (30 Hz, ver. 2016)
- 75013-0101; FLIR A65 FOV 45 (30 Hz, ver. 2016)
- 75010-0101; FLIR A65 FOV 6.2 (30 Hz, ver. 2016)
- 75007-0101; FLIR A65 FOV 90 (30 Hz, ver. 2016)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°

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Website

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- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 65702-0102; FLIR GF343 24° Fixed lens
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 71502-0101; FLIR G300 a 14.5° fixed lens
- 71502-0102; FLIR G300 a 24° fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 63901-0101; FLIR E4
- 63906-0604; FLIR E4 (incl. Wi-Fi)
- 63905-0501; FLIR E5
- 63909-0904; FLIR E5 (incl. Wi-Fi)
- 63902-0202; FLIR E6
- 63907-0704; FLIR E6 (incl. Wi-Fi)
- 63903-0303; FLIR E8
- 63908-0805; FLIR E8 (incl. Wi-Fi)
- 72001-0101; FLIR C2
- 72002-0202; FLIR C2 Educational Kit
- 72003-0303; FLIR C3 (incl. Wi-Fi)
- 72003-0404; FLIR C3 (incl. Wi-Fi) Educational Kit

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Website

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General description	
The FLIR Atlas SDK for MATLAB is a software development kit that enables developers to create applications. Supported by help files and sample code, developers can add functionality or collaborate with other FLIR products to get the result they want in their application.	
Key features:	
<ul style="list-style-type: none"> • Supports communication and streaming using FireWire, Gigabit, RTSP, and USB interfaces. • Gives the user full control of the camera. • Supports recording of images using FireWire, Gigabit, RTSP, and USB interfaces. • Converts 16-bit signal pixels into temperature data, for maximum user flexibility. • Allows 16-bit temperature linear, histogram, and signal outputs. 	
Release notes	
Version	3.1
Shipping information	
Packaging, type	Cardboard box
List of contents	Download card with printed license key
Packaging, weight	0.056 kg (0.123 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558011133
UPC-12	845188012021
Country of origin	Sweden
System requirements	
Operating system	MATLAB 2015 (32- and 64-bit) and one of the following operating systems: <ul style="list-style-type: none"> • Windows 7 (32- and 64-bit) • Windows 8 (32- and 64-bit) • Windows 10 (32- and 64-bit)

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)

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Website

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- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 73309-0102; FLIR A35 f=9 mm with SC kit
- 83225-0101; FLIR A35 FOV 13 (60 Hz, ver. 2017)
- 83213-0102; FLIR A35 FOV 25 (60 Hz, ver. 2017)
- 83207-0102; FLIR A35 FOV 45 (60 Hz, ver. 2017)
- 83250-0101; FLIR A35 FOV 6.5 (60 Hz, ver. 2017)
- 83209-0102; FLIR A35 FOV 69 (30 Hz, ver. 2017)
- 73413-0102; FLIR A65 f=13 mm with SC kit (30 Hz)
- 73513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 75050-0101; FLIR A65 FOV 12.4 (30 Hz, ver. 2016)
- 75025-0101; FLIR A65 FOV 25 (30 Hz, ver. 2016)
- 75013-0101; FLIR A65 FOV 45 (30 Hz, ver. 2016)
- 75010-0101; FLIR A65 FOV 6.2 (30 Hz, ver. 2016)
- 75007-0101; FLIR A65 FOV 90 (30 Hz, ver. 2016)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°

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Website

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Customer support

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- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 65702-0102; FLIR GF343 24° Fixed lens
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 71502-0101; FLIR G300 a 14.5° fixed lens
- 71502-0102; FLIR G300 a 24° fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 63901-0101; FLIR E4
- 63906-0604; FLIR E4 (incl. Wi-Fi)
- 63905-0501; FLIR E5
- 63909-0904; FLIR E5 (incl. Wi-Fi)
- 63902-0202; FLIR E6
- 63907-0704; FLIR E6 (incl. Wi-Fi)
- 63903-0303; FLIR E8
- 63908-0805; FLIR E8 (incl. Wi-Fi)
- 72001-0101; FLIR C2
- 72002-0202; FLIR C2 Educational Kit
- 72003-0303; FLIR C3 (incl. Wi-Fi)
- 72003-0404; FLIR C3 (incl. Wi-Fi) Educational Kit

P/N: DSW-10000

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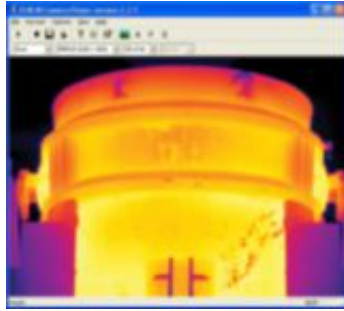
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General description

FLIR IR Camera Player is a PC-based remote control and viewer that you can use with cameras from FLIR Systems.

You can perform one or more of the following with FLIR IR Camera Player:

- Record a video stream from the camera.
- Save a frame from the video stream as a snapshot image (*.bmp).
- Autofocus, focus far, and focus near.
- Autoadjust the camera image.
- Freeze the camera image.
- Save a camera image in the camera.
- Change Color palette.
- Add an image description and a text comment to an image.

You connect a camera in one of the following ways:

- Ethernet
- FireWire
- USB

Download

This software is a freeware. To download, click the following link:

<http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=89>

Release notes

Version	2.3.3
New features	<p>Main improvements in version 2.3.3:</p> <ul style="list-style-type: none"> • Added latest device drivers (1.9.1.0). • Various bugfixes <p>Main improvements in version 2.2.7:</p> <ul style="list-style-type: none"> • Added support for FLIR Ax5 series.

System requirements

Operating system	<ul style="list-style-type: none"> • Windows XP, 32-bit • Windows Vista, 32-bit/64-bit • Windows 7, 32-bit/64-bit
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Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)

P/N: DSW-10000

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 73309-0102; FLIR A35 f=9 mm with SC kit
- 83225-0101; FLIR A35 FOV 13 (60 Hz, ver. 2017)
- 83213-0102; FLIR A35 FOV 25 (60 Hz, ver. 2017)
- 83207-0102; FLIR A35 FOV 45 (60 Hz, ver. 2017)
- 83250-0101; FLIR A35 FOV 6.5 (60 Hz, ver. 2017)
- 83209-0102; FLIR A35 FOV 69 (30 Hz, ver. 2017)
- 73413-0102; FLIR A65 f=13 mm with SC kit (30 Hz)
- 73513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 75050-0101; FLIR A65 FOV 12.4 (30 Hz, ver. 2016)
- 75025-0101; FLIR A65 FOV 25 (30 Hz, ver. 2016)
- 75013-0101; FLIR A65 FOV 45 (30 Hz, ver. 2016)
- 75010-0101; FLIR A65 FOV 6.2 (30 Hz, ver. 2016)
- 75007-0101; FLIR A65 FOV 90 (30 Hz, ver. 2016)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)

P/N: DSW-10000

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

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General description	
FLIR Reporter Professional is a powerful software for creating compelling and professional, fully customized, easy-to-interpret maintenance reports.	
Professional Report Wizard guides you step-by-step in combining all IR inspection data - infrared and visual images, temperature measurements, and text notes – into a professional, easy-to-interpret maintenance report.	
Key features:	
<ul style="list-style-type: none"> • Flexible report page design and layout for customized reports • Use quick insert function to easily create custom report pages • Fully integrated with standard Microsoft Word • Generates reports in standard MS Office format and PDF-format • Powerful temperature analysis • Triple Fusion Picture-in-Picture (movable, sizable, scalable) • Rapid report manager supporting automatic report generation by drag-and-drop • Support for MSX (Multi-Spectral Dynamic Imaging) images • Support for sketch images in both IR and visual with on/off toggling • Support for same FOV ("Field of View Match") • Grid settings • Trending functionality • Automatic link to Google™ Maps for images with GPS coordinates • Automatic summary table for the report • Fine tune images and make full temperature analysis directly in Microsoft Word • Spell check • Create your own formulas including measurement values from images • Play radiometric sequences directly in the report • Search functionality to quickly finding images for your report • Panorama tool for combining several images to a larger image • Support for GF series IR images • Auto Update function • Support for METERLiNK™ data • *.docx compatibility 	

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http://support.flir.com/reporter	

Release notes	
Version	9.2
New features	<p>News in 9.2</p> <ul style="list-style-type: none"> • Option to hide Zoom Viewer • Option to extract Visual image from MSI/Fusion image. • Support for the new FLIR Ex and Exx series cameras. • Support for multispectral images. • Support for auto-oriented images. • Various bug fixes.



FLIR Reporter Professional (license only)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">FLIR Reporter Professional scratchcard
Packaging, weight	0.135 kg (0.3 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005286 4743254001893 (Estonia plant)
UPC-12	845188005498
Country of origin	Sweden

System requirements	
Operating system	<ul style="list-style-type: none">Windows 7, 32-bitWindows 7, 64-bitWindows 8, 32-bitWindows 8, 64-bitWindows 10, 32-bitWindows 10, 64-bit
Software requirements	<ul style="list-style-type: none">Office 2007 (32-bit)Office 2010 (32-bit)Office 2013 (32-bit)Office 2016 (32-bit)

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

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Website

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General description
FLIR ResearchIR Max + HSDR 4 contains all the features of FLIR ResearchIR Max 4, plus support for FLIR High Speed Data Recorder (HSDR) products.
Main features:
<ul style="list-style-type: none"> • Pre/post-recording. • Mathematical processing toolbox. • Image filtering toolbox. • Radiometric digital detail enhancement (DDE) improves dramatically the understanding of the thermal image, while maintaining radiometric measurement accuracy. • View, record and store images at high speed. • Post-processing of fast thermal events. • Generate time-temperature plots from live images or recorded sequences. • Advanced start/stop recording conditions. • Unlimited number of analysis functions (spot, line, area). • File organizer. • Zoom and pan allows a closer look. • Multiple dockable objects for plots and statistics. • Export images and results to bitmap, video, Excel, MATLAB or CSV formats • Local scale gain control on measurement - automatically adjusts the contrast in a specific part of the image.
FLIR ResearchIR Max + HSDR 4 in combination with a FLIR thermal imaging camera is the perfect solution for any R&D or scientific application. It will allow researchers in all fields to make the smallest of temperature differences visible and to thoroughly analyze the thermal process in real-time.

Download
Download your copy of FLIR ResearchIR Max + HSDR 4 here (hardware security device required to run the software):
http://support.flir.com/rir4

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • FLIR ResearchIR Max + HSDR 4 download card. • Hardware security device.
Packaging, weight	0.068 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558007280
UPC-12	845188007652
Country of origin	Sweden

Compatible with the following products:

- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°



FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens



FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)

P/N: T198697

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

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Website

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Customer support

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General description

FLIR ResearchIR Max + HSDR 4 contains all the features of FLIR ResearchIR Max 4, plus support for FLIR High Speed Data Recorder (HSDR) products.

Main features:

- Pre/post-recording.
- Mathematical processing toolbox.
- Image filtering toolbox.
- Radiometric digital detail enhancement (DDE) improves dramatically the understanding of the thermal image, while maintaining radiometric measurement accuracy.
- View, record and store images at high speed.
- Post-processing of fast thermal events.
- Generate time-temperature plots from live images or recorded sequences.
- Advanced start/stop recording conditions.
- Unlimited number of analysis functions (spot, line, area).
- File organizer.
- Zoom and pan allows a closer look.
- Multiple dockable objects for plots and statistics.
- Export images and results to bitmap, video, Excel, MATLAB or CSV formats
- Local scale gain control on measurement - automatically adjusts the contrast in a specific part of the image.

FLIR ResearchIR Max + HSDR 4 in combination with a FLIR thermal imaging camera is the perfect solution for any R&D or scientific application. It will allow researchers in all fields to make the smallest of temperature differences visible and to thoroughly analyze the thermal process in real-time.

Download

Download your copy of FLIR ResearchIR Max + HSDR 4 here (evaluation copy only – license key required):

<http://support.flir.com/rir4>

Shipping information

Packaging, type	Cardboard box
List of contents	FLIR ResearchIR Max + HSDR 4 download card, incl. license key.
Packaging, weight	0.068 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558010464
UPC-12	845188011116
Country of origin	Sweden

Compatible with the following products:

- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case



FLIR ResearchIR Max + HSDR 4 (printed license key)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)



FLIR ResearchIR Max + HSDR 4 (printed license key)

P/N: T199014

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description
FLIR ResearchIR Max + HSDR 4 contains all the features of FLIR ResearchIR Max 4, plus support for FLIR High Speed Data Recorder (HSDR) products.
Main features:
<ul style="list-style-type: none"> • Pre/post-recording. • Mathematical processing toolbox. • Image filtering toolbox. • Radiometric digital detail enhancement (DDE) improves dramatically the understanding of the thermal image, while maintaining radiometric measurement accuracy. • View, record and store images at high speed. • Post-processing of fast thermal events. • Generate time-temperature plots from live images or recorded sequences. • Advanced start/stop recording conditions. • Unlimited number of analysis functions (spot, line, area). • File organizer. • Zoom and pan allows a closer look. • Multiple dockable objects for plots and statistics. • Export images and results to bitmap, video, Excel, MATLAB or CSV formats • Local scale gain control on measurement - automatically adjusts the contrast in a specific part of the image.
FLIR ResearchIR Max + HSDR 4 in combination with a FLIR thermal imaging camera is the perfect solution for any R&D or scientific application. It will allow researchers in all fields to make the smallest of temperature differences visible and to thoroughly analyze the thermal process in real-time.

Download
Download your copy of FLIR ResearchIR Max + HSDR 4 here (evaluation copy only – license key required):
http://support.flir.com/rir4

Shipping information	
Packaging, type	Cardboard box
List of contents	FLIR ResearchIR Max + HSDR 4 download card, incl. license key.
Packaging, weight	0.068 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558010495
UPC-12	845188011147
Country of origin	Sweden

Compatible with the following products:

- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case



FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)



FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)

P/N: T199044

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

P/N: T198696

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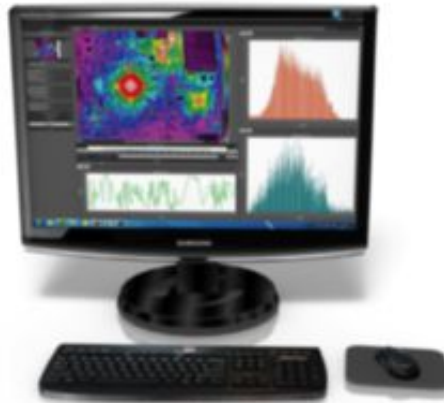
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Website

<http://www.flir.com>

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General description

FLIR ResearchIR Max 4 is aimed at R&D and science professionals who use thermal imaging cameras with a cooled or uncooled detectors. FLIR ResearchIR Max makes the most of a thermal imaging camera, and allows high-speed recording and advanced thermal pattern analysis. FLIR ResearchIR Max is the perfect tool for industrial R&D.

Main features:

- Pre/post-recording.
- Mathematical processing toolbox.
- Image filtering toolbox.
- Radiometric digital detail enhancement (DDE) improves dramatically the understanding of the thermal image, while maintaining radiometric measurement accuracy.
- View, record and store images at high speed.
- Post-processing of fast thermal events.
- Generate time-temperature plots from live images or recorded sequences.
- Advanced start/stop recording conditions.
- Unlimited number of analysis functions (spot, line, area).
- File organizer.
- Zoom and pan allows a closer look.
- Multiple dockable objects for plots and statistics.
- Export images and results to bitmap, video, Excel, MATLAB or CSV formats
- Local scale gain control on measurement - automatically adjusts the contrast in a specific part of the image.

FLIR ResearchIR Max 4 in combination with a FLIR thermal imaging camera is the perfect solution for any R&D or scientific application. It will allow researchers in all fields to make the smallest of temperature differences visible and to thoroughly analyze the thermal process in real-time.

Download

Download your copy of FLIR ResearchIR Max 4 here (hardware security device required to run the software):

<http://support.flir.com/rir4>

Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • FLIR ResearchIR Max 4 download card. • Hardware security device.
Packaging, weight	0.066 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558007266
UPC-12	845188007638
Country of origin	Sweden

Compatible with the following products:

- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0401; FLIR T1050sc 12°



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 84502-0201; FLIR E53 24°
- 78501-0101; FLIR E75 14°
- 78502-0101; FLIR E75 24°
- 78504-0101; FLIR E75 24° + 14°
- 78506-0101; FLIR E75 24° + 14° & 42°
- 78505-0101; FLIR E75 24° + 42°
- 78503-0101; FLIR E75 42°
- 78507-0101; FLIR E75 42° + 14°
- 78501-0201; FLIR E85 14°
- 78502-0201; FLIR E85 24°
- 78504-0201; FLIR E85 24° + 14°
- 78506-0201; FLIR E85 24° + 14° & 42°
- 78505-0201; FLIR E85 24° + 42°
- 78503-0201; FLIR E85 42°
- 78507-0201; FLIR E85 42° + 14°
- 78501-0301; FLIR E95 14°
- 78502-0301; FLIR E95 24°
- 78504-0301; FLIR E95 24° + 14°
- 78506-0301; FLIR E95 24° + 14° & 42°
- 78505-0301; FLIR E95 24° + 42°
- 78503-0301; FLIR E95 42°
- 78507-0301; FLIR E95 42° + 14°
- 79301-0101; FLIR T530 14°
- 79302-0101; FLIR T530 24°
- 79304-0101; FLIR T530 24° + 14°
- 79306-0101; FLIR T530 24° + 14° & 42°
- 79305-0101; FLIR T530 24° + 42°
- 79303-0101; FLIR T530 42°
- 79307-0101; FLIR T530 42° + 14°
- 79301-0201; FLIR T540 14°
- 79302-0201; FLIR T540 24°
- 79304-0201; FLIR T540 24° + 14°
- 79306-0201; FLIR T540 24° + 14° & 42°
- 79305-0201; FLIR T540 24° + 42°
- 79303-0201; FLIR T540 42°
- 79307-0201; FLIR T540 42° + 14°

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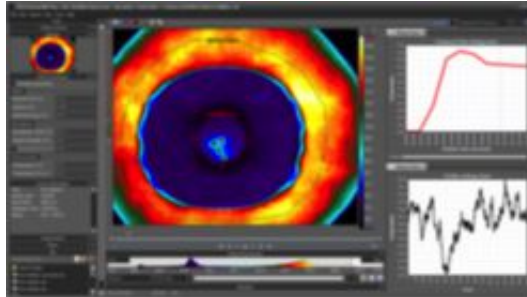
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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

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Main features:

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- Mathematical processing toolbox.
- Image filtering toolbox.
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- View, record and store images at high speed.
- Post-processing of fast thermal events.
- Generate time-temperature plots from live images or recorded sequences.
- Advanced start/stop recording conditions.
- Unlimited number of analysis functions (spot, line, area).
- File organizer.
- Zoom and pan allows a closer look.
- Multiple dockable objects for plots and statistics.
- Export images and results to bitmap, video, Excel, MATLAB or CSV formats
- Local scale gain control on measurement - automatically adjusts the contrast in a specific part of the image.

FLIR ResearchIR Max 4 in combination with a FLIR thermal imaging camera is the perfect solution for any R&D or scientific application. It will allow researchers in all fields to make the smallest of temperature differences visible and to thoroughly analyze the thermal process in real-time.

Download

Download your copy of FLIR ResearchIR Max 4 here (evaluation copy only – license key required):

<http://support.flir.com/rir4>

Shipping information

Packaging, type	Cardboard box
List of contents	FLIR ResearchIR Max 4 download card, incl. license key.
Packaging, weight	0.066 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558010457
UPC-12	845188011109
Country of origin	Sweden

Compatible with the following products:

- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case



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Website

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Customer support

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- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 84502-0201; FLIR E53 24°
- 78501-0101; FLIR E75 14°
- 78502-0101; FLIR E75 24°
- 78504-0101; FLIR E75 24° + 14°
- 78506-0101; FLIR E75 24° + 14° & 42°
- 78505-0101; FLIR E75 24° + 42°
- 78503-0101; FLIR E75 42°
- 78507-0101; FLIR E75 42° + 14°
- 78501-0201; FLIR E85 14°
- 78502-0201; FLIR E85 24°
- 78504-0201; FLIR E85 24° + 14°
- 78506-0201; FLIR E85 24° + 14° & 42°
- 78505-0201; FLIR E85 24° + 42°
- 78503-0201; FLIR E85 42°
- 78507-0201; FLIR E85 42° + 14°
- 78501-0301; FLIR E95 14°
- 78502-0301; FLIR E95 24°
- 78504-0301; FLIR E95 24° + 14°
- 78506-0301; FLIR E95 24° + 14° & 42°
- 78505-0301; FLIR E95 24° + 42°
- 78503-0301; FLIR E95 42°
- 78507-0301; FLIR E95 42° + 14°
- 79301-0101; FLIR T530 14°
- 79302-0101; FLIR T530 24°
- 79304-0101; FLIR T530 24° + 14°
- 79306-0101; FLIR T530 24° + 14° & 42°
- 79305-0101; FLIR T530 24° + 42°
- 79303-0101; FLIR T530 42°
- 79307-0101; FLIR T530 42° + 14°
- 79301-0201; FLIR T540 14°
- 79302-0201; FLIR T540 24°
- 79304-0201; FLIR T540 24° + 14°
- 79306-0201; FLIR T540 24° + 14° & 42°
- 79305-0201; FLIR T540 24° + 42°
- 79303-0201; FLIR T540 42°
- 79307-0201; FLIR T540 42° + 14°

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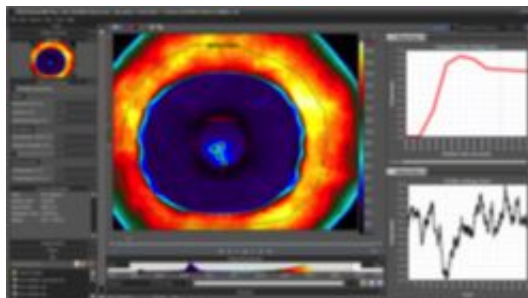
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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

FLIR ResearchIR Max 4 is aimed at R&D and science professionals who use thermal imaging cameras with a cooled or uncooled detectors. FLIR ResearchIR Max makes the most of a thermal imaging camera, and allows high-speed recording and advanced thermal pattern analysis. FLIR ResearchIR Max is the perfect tool for industrial R&D.

Main features:

- Pre/post-recording.
- Mathematical processing toolbox.
- Image filtering toolbox.
- Radiometric digital detail enhancement (DDE) improves dramatically the understanding of the thermal image, while maintaining radiometric measurement accuracy.
- View, record and store images at high speed.
- Post-processing of fast thermal events.
- Generate time-temperature plots from live images or recorded sequences.
- Advanced start/stop recording conditions.
- Unlimited number of analysis functions (spot, line, area).
- File organizer.
- Zoom and pan allows a closer look.
- Multiple dockable objects for plots and statistics.
- Export images and results to bitmap, video, Excel, MATLAB or CSV formats
- Local scale gain control on measurement - automatically adjusts the contrast in a specific part of the image.

FLIR ResearchIR Max 4 in combination with a FLIR thermal imaging camera is the perfect solution for any R&D or scientific application. It will allow researchers in all fields to make the smallest of temperature differences visible and to thoroughly analyze the thermal process in real-time.

Download

Download your copy of FLIR ResearchIR Max 4 here (evaluation copy only – license key required):

<http://support.flir.com/rir4>

Shipping information

Packaging, type	Cardboard box
List of contents	FLIR ResearchIR Max 4 download card, incl. license key.
Packaging, weight	0.066 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558010488
UPC-12	845188011130
Country of origin	Sweden

Compatible with the following products:

- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case



FLIR ResearchIR Max 4 Upgrade (printed license key)

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Website

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Customer support

<http://support.flir.com>

- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)



FLIR ResearchIR Max 4 Upgrade (printed license key)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 84502-0201; FLIR E53 24°
- 78501-0101; FLIR E75 14°
- 78502-0101; FLIR E75 24°
- 78504-0101; FLIR E75 24° + 14°
- 78506-0101; FLIR E75 24° + 14° & 42°
- 78505-0101; FLIR E75 24° + 42°
- 78503-0101; FLIR E75 42°
- 78507-0101; FLIR E75 42° + 14°
- 78501-0201; FLIR E85 14°
- 78502-0201; FLIR E85 24°
- 78504-0201; FLIR E85 24° + 14°
- 78506-0201; FLIR E85 24° + 14° & 42°
- 78505-0201; FLIR E85 24° + 42°
- 78503-0201; FLIR E85 42°
- 78507-0201; FLIR E85 42° + 14°
- 78501-0301; FLIR E95 14°
- 78502-0301; FLIR E95 24°
- 78504-0301; FLIR E95 24° + 14°
- 78506-0301; FLIR E95 24° + 14° & 42°
- 78505-0301; FLIR E95 24° + 42°
- 78503-0301; FLIR E95 42°
- 78507-0301; FLIR E95 42° + 14°
- 79301-0101; FLIR T530 14°
- 79302-0101; FLIR T530 24°
- 79304-0101; FLIR T530 24° + 14°
- 79306-0101; FLIR T530 24° + 14° & 42°
- 79305-0101; FLIR T530 24° + 42°
- 79303-0101; FLIR T530 42°
- 79307-0101; FLIR T530 42° + 14°
- 79301-0201; FLIR T540 14°
- 79302-0201; FLIR T540 24°
- 79304-0201; FLIR T540 24° + 14°
- 79306-0201; FLIR T540 24° + 14° & 42°
- 79305-0201; FLIR T540 24° + 42°
- 79303-0201; FLIR T540 42°
- 79307-0201; FLIR T540 42° + 14°

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Website

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General description	
FLIR ResearchIR Standard 4.0 is aimed at the R&D benchtop testing environment for users of uncooled cameras. FLIR ResearchIR Standard provides the core analysis tools needed for rapid testing and assessment of thermal issues.	
Main features:	
<ul style="list-style-type: none"> • View live imagery from the camera • Record snapshots or movies to disk. • Post-processing of fast thermal events. • Generate time-temperature plots from live images or recorded sequences. • Analysis by region (spot, line, area). • File organizer. • Zoom and pan allows a closer look. • Multiple dockable objects for plots and statistics. • Export images and results to bitmap, Excel, or CSV formats 	
FLIR ResearchIR Standard 4 in combination with a FLIR thermal imaging camera is the perfect solution for any benchtop testing application application.	

Shipping information	
List of contents	<ul style="list-style-type: none"> • FLIR ResearchIR Standard download card. • Hardware security device.
Packaging, weight	0.069 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558008638
UPC-12	845188009151
Country of origin	Sweden

Compatible with the following products:

- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 78502-0101; FLIR E75 24°
- 78504-0101; FLIR E75 24° + 14°
- 78506-0101; FLIR E75 24° + 14° & 42°



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Website

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Customer support

<http://support.flir.com>

- 78505-0101; FLIR E75 24° + 42°
- 78503-0101; FLIR E75 42°
- 78507-0101; FLIR E75 42° + 14°
- 78502-0201; FLIR E85 24°
- 78504-0201; FLIR E85 24° + 14°
- 78506-0201; FLIR E85 24° + 14° & 42°
- 78505-0201; FLIR E85 24° + 42°
- 78503-0201; FLIR E85 42°
- 78507-0201; FLIR E85 42° + 14°
- 78502-0301; FLIR E95 24°
- 78504-0301; FLIR E95 24° + 14°
- 78506-0301; FLIR E95 24° + 14° & 42°
- 78505-0301; FLIR E95 24° + 42°
- 78503-0301; FLIR E95 42°
- 78507-0301; FLIR E95 42° + 14°
- 79302-0101; FLIR T530 24°
- 79306-0101; FLIR T530 24° + 14° & 42°
- 79305-0101; FLIR T530 24° + 42°
- 79304-0101; FLIR T530 24° + 14°
- 79303-0101; FLIR T530 42°
- 79307-0101; FLIR T530 42° + 14°
- 79302-0201; FLIR T540 24°
- 79304-0201; FLIR T540 24° + 14°
- 79306-0201; FLIR T540 24° + 14° & 42°
- 79305-0201; FLIR T540 24° + 42°
- 79303-0201; FLIR T540 42°
- 79307-0201; FLIR T540 42° + 14°

P/N: T199012

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Disclaimer

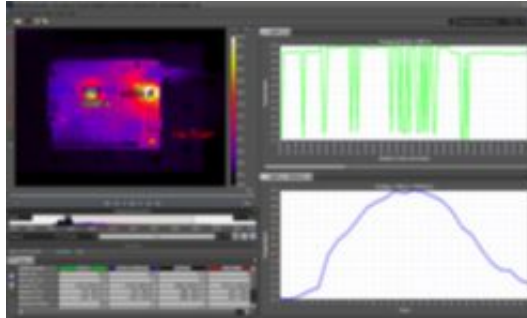
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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

FLIR ResearchIR Standard 4 is aimed at the R&D benchtop testing environment for users of uncooled cameras. FLIR ResearchIR Standard provides the core analysis tools needed for rapid testing and assessment of thermal issues.

Main features:

- View live imagery from the camera
- Record snapshots or movies to disk.
- Post-processing of fast thermal events.
- Generate time-temperature plots from live images or recorded sequences.
- Analysis by region (spot, line, area).
- File organizer.
- Zoom and pan allows a closer look.
- Multiple dockable objects for plots and statistics.
- Export images and results to bitmap, Excel, or CSV formats

FLIR ResearchIR Standard 4 in combination with a FLIR thermal imaging camera is the perfect solution for any benchtop testing application application.

Download

Download your copy of FLIR ResearchIR 4 here (evaluation copy only – license key required):

<http://support.flir.com/rir4>

Shipping information

List of contents	FLIR ResearchIR Standard download card, incl. license key.
Packaging, weight	0.069 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558010440
UPC-12	845188011093
Country of origin	Sweden

Compatible with the following products:

- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72002-0202; FLIR C2 Educational Kit

P/N: T199042

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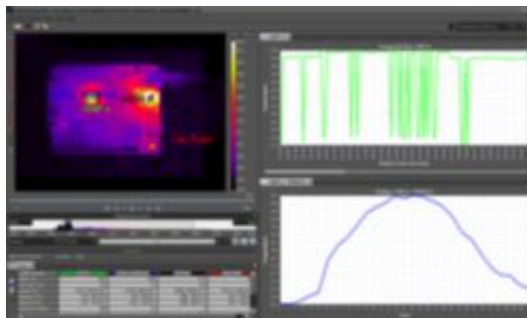
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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description
FLIR ResearchIR Standard 4 is aimed at the R&D benchtop testing environment for users of uncooled cameras. FLIR ResearchIR Standard provides the core analysis tools needed for rapid testing and assessment of thermal issues.
Main features:
<ul style="list-style-type: none"> • View live imagery from the camera • Record snapshots or movies to disk. • Post-processing of fast thermal events. • Generate time-temperature plots from live images or recorded sequences. • Analysis by region (spot, line, area). • File organizer. • Zoom and pan allows a closer look. • Multiple dockable objects for plots and statistics. • Export images and results to bitmap, Excel, or CSV formats
FLIR ResearchIR Standard 4 in combination with a FLIR thermal imaging camera is the perfect solution for any benchtop testing application application.

Download
Download your copy of FLIR ResearchIR 4 here (evaluation copy only – license key required):
http://support.flir.com/rir4

Shipping information	
List of contents	FLIR ResearchIR Standard download card, incl. license key.
Packaging, weight	0.069 kg (0.15 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558010471
UPC-12	845188011123
Country of origin	Sweden

Compatible with the following products:

- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)



FLIR ResearchIR Standard 4 Upgrade (printed license key)

P/N: T199042

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Customer support

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- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

P/N: 72500-0002

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

The FLIR T10xx SC kit is intended for R&D usage and development purposes. The kit includes a high-speed interface (HSI) box, which enables streaming of fully radiometric and uncompressed video from a FLIR T10xx series camera to a PC running the FLIR ResearchIR Max software.

Communication

Interfaces	<ul style="list-style-type: none"> • USB 3 Vision • Digital I/O • Proprietary FLIR interface
Image streaming	<ul style="list-style-type: none"> • Up to 120 Hz full frame • Up to 240 Hz by windowing
Image formats	<ul style="list-style-type: none"> • Unfiltered, uncompressed 14 bit radiometric raw data • Lossless, maximal sensitivity

Electronics and data rate

Video streaming

Windowing	<ul style="list-style-type: none"> • 30 Hz: 1024 × 768 (full image height) • Based on 30 Hz: 120 Hz windowing 1024 × 192 (¼ of full image height), for range -40 to +150°C (-40 to +302°F) • 120 Hz: 1024 × 768 (full image height) • Based on 120 Hz: 240 Hz windowing 1024 × 384 (½ of full image height), for range 0 to +650°C (+32 to +1202°F) and range +300 to +2000°C (+572 to +3632°F)
-----------	---

Power system

Power, HSI box	Powered from PC via USB 3
----------------	---------------------------

Physical data

Weight, HSI box	0.405 kg (0.893 lb.)
Weight, USB cable	0.135 kg (0.298 lb.)
Size (L × W × H), HSI box	125 × 72.4 × 56.7 mm (4.92 × 2.85 × 2.23 in.)
Mounting, HSI box	Tripod mount, velcro straps

Shipping information

Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • High-speed interface • Hard transport case • USB cable (USB 3), 3 m (10 ft.) • Digital I/O connector • FLIR ResearchIR Max license card • Printed documentation
Packaging, weight	2.1 kg (4.6 lb.)



FLIR T10xx SC kit

P/N: 72500-0002

Revision

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>**Shipping information**

Packaging, size	303 × 206 × 128 mm (11.9 × 18.1 × 5.0 in.)
EAN-13	7332558011041
UPC-12	845188011888
Country of origin	Sweden

- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

FLIR Tools is a software suite specifically designed to provide an easy way to update your camera and create inspection reports.

Key features:

- Report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR).
- Manual IR/Visual Image Grouping
- Import images from your camera to your computer.
- Apply filters when searching for images.
- Search all text in images and text annotations.
- Store the five latest search criteria's.
- Lay out, move, and resize measurement tools on any infrared image.
- Create PDF imagesheets of any images of your choice.
- Add headers, footers, and logos to imagesheets.
- Create PDF reports for images of your choice.
- Add headers, footers, and logos to reports.
- Report editor (report page preview and snap to grid).
- Sort function (by date, groups sorted by path, and groups sorted by date).
- Browse and purchase infrared cameras, software, and accessories in the webshop.
- Software localized to 21 languages.
- Support for MSX (Multi-Spectral Dynamic Imaging) Images
- Support for Sketch Images on both IR and Visual with toggling ON/OFF feature.
- Support for Same FOV (Field of View Match)
- Display of Compass Information in Edit and in Report.
- Display of GPS Information in Edit and in Report.
- Camera update (applies to FLIR Ex, Kxx, Exx and T6xx series only).

Download

This software is a freeware. To download, click the following link:

<http://support.flir.com/tools>

Release notes

Version	5.9
New features in version 5.9	<ul style="list-style-type: none"> • Additional trigger options for FLIR K53, K55, and K65 cameras • Added user account registration and login • New Pleora version support • Various bug fixes
New features in version 5.7	<ul style="list-style-type: none"> • Five modes supported for K65, K55, and K53 cameras. • Support for Kx3 cameras. • Auto gain mode now available for K2 cameras. • Various bug fixes.
New features in version 5.5	<ul style="list-style-type: none"> • Added support for Microsoft Office 2016 (32-bit) for the FLIR Word Reporting module. • Various bug fixes.

P/N: T198584

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Release notes	
New features in version 5.3	<ul style="list-style-type: none"> Support for the FLIR T1020 and T1040 cameras for import, edit, report creation, and camera update. Support for the FLIR K2 camera for configuration, video streaming, and camera update. Delta (difference) readings are now on one line instead of two.
New features in version 5.2.1	<ul style="list-style-type: none"> Option added to change color distribution mode (histogram equalization, signal linear, temperature linear). Option added to extract photos at their full field of view. Various bug fixes.
New features in version 5.2	<ul style="list-style-type: none"> Support for auto-adjusting a region. Support for zoom. Various bug fixes.
New features in version 5.1	<ul style="list-style-type: none"> Improved import performance. Added support for video recording settings for FLIR Kxx series. Added support for importing video files from FLIR Kxx series. Added support for FLIR C2 camera. Various bug fixes.
New features in version 5.0	<ul style="list-style-type: none"> Local object parameters for measurement tools. Save a report in-process with the ability to edit at a later time. Pull-down menus for text annotations. Variable playback speed for recordings. Show or hide min./max./avg. temperature, and hot/cold markers, for areas and lines. Smoother display for low-resolution images. UltraMax image enhancement. Dropping support for Windows XP. Various bug fixes.
New features in version 4.1	<ul style="list-style-type: none"> Previous/next in Edit mode. Clone in the Library. Extract visual photo from a multispectral image. Import *.mp4, *.seq, and *.csq files from the camera. Playback/edit *.seq and *.csq files. Scale enhancement for the FLIR GF3xx series. Auto resize of thumbnails during importing for the FLIR T6xx series. Grouping/ungrouping now added. Various bug fixes.
New features in version 4.0	<ul style="list-style-type: none"> Support for the new FLIR Ex and Exx series cameras. Interactive quick start guide when connecting a FLIR camera. Improved library view. Support for multispectral images. Support for auto-oriented images. Various bug fixes.
New features in version 3.1	<ul style="list-style-type: none"> Support for FLIR K series cameras. Interactive quick start guide when connecting a FLIR K series camera. Live image streaming from FLIR K series cameras. PC-side configuration of FLIR K series cameras. New report templates for DC images only added. Various bug fixes.
New features in version 3.0	<ul style="list-style-type: none"> Add folder to library. Support for isotherms and color alarms Image description for both IR and DC. Export functionality (*.avi, *.csv). Microsoft Windows 8 (32- and 64-bit) New web installer Various bug fixes.



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Website

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Customer support

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Release notes	
New features in version 2.2	<ul style="list-style-type: none"> Camera tab: <ul style="list-style-type: none"> Logging feature in Camera Tab Recording and playback of SEQ files. Various bug fixes.
New features in version 2.1	<ul style="list-style-type: none"> New Text Comment Template Tab: <ul style="list-style-type: none"> Create, Edit and Transfer templates to and from any FLIR Camera. Import and Export of Templates. Support for MSX (Multi-Spectral Dynamic Imaging) Images Support for Sketch Images on both IR and Visual with toggling ON/OFF feature. Support for Same FOV (Field of View Match) Display of Compass Information in Edit and in Report. Display of GPS Information in Edit and in Report. <ul style="list-style-type: none"> Direct Link to Google Maps for GPS Tagged images from Report. Support for 3x5 and 6x5 A-series cameras
New features in version 2.0	<ul style="list-style-type: none"> Camera tab: <ul style="list-style-type: none"> Camera connection with FLIR UVC cameras. Measurement data analysis. Plotting. Snapshot saving with text annotation and plot. Performance improvement for large reports: can now create reports and imagesheets of up to 200 pages. Various bug fixes.
New features in version 1.3	<ul style="list-style-type: none"> Import from ix series cameras. Add and remove a form from a group. Text comments are now saved in the infrared image. The indexing engine can create groups from IR, DC, and text annotations when indexing the paths in the watch folder. Arrow tool in the report toolbar. Reorder pages. Text annotations can now be edited in the report. New report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR). New sample images.
New features in version 1.2 SP1	<ul style="list-style-type: none"> Various bug fixes.
New features in version 1.2	<ul style="list-style-type: none"> Search function: <ul style="list-style-type: none"> Store the five latest search criterias. Search in all texts in images and text annotations. Sort function: <ul style="list-style-type: none"> By date. Groups sorted by by path. Groups sorted by date. Report editor: <ul style="list-style-type: none"> Report page preview. Snap to grid. Various bug fixes.
New features in version 1.1 SP1	<ul style="list-style-type: none"> Extension to the camera update functionality. Various bug fixes
New features in version 1.1	<ul style="list-style-type: none"> Software localized to 21 languages. Camera update. (Exx, T6xx) Option to rotate an infrared image in the infrared editor.

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> Digital download, or CD-ROM
Packaging, weight	0.106 kg (0.23 lb.)



FLIR Tools

P/N: T198584

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Shipping information	
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558005279
UPC-12	845188005481
Country of origin	Sweden

System requirements	
Operating system	<ul style="list-style-type: none">• Windows 7, 32-bit• Windows 7, 64-bit• Windows 8, 32-bit• Windows 8, 64-bit• Windows 10, 32-bit• Windows 10, 64-bit

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 73309-0102; FLIR A35 f=9 mm with SC kit
- 83225-0101; FLIR A35 FOV 13 (60 Hz, ver. 2017)
- 83213-0102; FLIR A35 FOV 25 (60 Hz, ver. 2017)
- 83207-0102; FLIR A35 FOV 45 (60 Hz, ver. 2017)
- 83250-0101; FLIR A35 FOV 6.5 (60 Hz, ver. 2017)
- 83209-0102; FLIR A35 FOV 69 (30 Hz, ver. 2017)
- 73413-0102; FLIR A65 f=13 mm with SC kit (30 Hz)
- 73513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 75050-0101; FLIR A65 FOV 12.4 (30 Hz, ver. 2016)
- 75025-0101; FLIR A65 FOV 25 (30 Hz, ver. 2016)
- 75013-0101; FLIR A65 FOV 45 (30 Hz, ver. 2016)
- 75010-0101; FLIR A65 FOV 6.2 (30 Hz, ver. 2016)
- 75007-0101; FLIR A65 FOV 90 (30 Hz, ver. 2016)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens



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Website

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Customer support

<http://support.flir.com>

- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 72001-0101; FLIR C2
- 72002-0202; FLIR C2 Educational Kit
- 72003-0303; FLIR C3 (incl. Wi-Fi)
- 72003-0404; FLIR C3 (incl. Wi-Fi) Educational Kit

P/N: APP-10002

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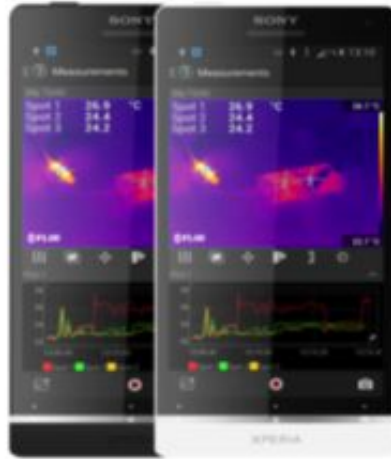
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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
FLIR Tools Mobile is an intuitive Android app for analyzing, managing, and distributing infrared images.	
Key features:	
<ul style="list-style-type: none"> • Remote control • MSX • Images with sketch on DC and IR • Images with field of view follow • Editable text comments • Emissivity table • Import images from your Wi-Fi-enabled camera. • Connect and stream infrared images from the camera. • Connect and stream measurement data from FLIR Test & Measurement meters • Lay out and move measurement tools on the image. • Read out temperature measurements. • Create and configure temporal plots based on results of measurement tools on the infrared image. • Log measurement data and export it as a *.csv file. • Save a measurement scenario as a data snapshot. • Zoom in on images. • On the Android device, remotely take snapshots when a camera is connected. • On the camera, take snapshots that will automatically be saved on the Android device. • Delete images on the Android device. • Display an image's GPS coordinates on Google Maps. • Create and e-mail reports. • Save images in the Android device photo library. • Send images to FTP sites and other file-sharing services (Dropbox, Box.net, etc.). • Display image information, e.g., object parameters, text comments, and file details. • Play back voice comments. • Change the level and span. • Change general settings in the app. • Change the palette. 	
Download	
The application can be downloaded from Android Market or Amazon Marketplace, see the link below.	
https://market.android.com/details?id=com.flir.viewer	
Release notes	
Version	3.8.0
New features	Main improvements in version 3.8.0: <ul style="list-style-type: none"> • Fixed loading of Japanese help files. • Fixed import bug for Samsung S6. • Fixed opening image taken from CAT S60. • Support for Ex, C3, and the new Exx cameras. • Import from Work folders. • Area measurement and length measurement feature based on object distance. • Various bug fixes.



FLIR Tools Mobile (Android Application)

P/N: APP-10002

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Website

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Customer support

<http://support.flir.com>

System requirements

Operating system

- Android 4.03 and later

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)



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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

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Website

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Customer support

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<p>General description</p> <p>FLIR Tools Mobile lets professional thermographers use an iPad, iPhone, or iPod touch to see and capture live, streaming infrared video and stills from select FLIR cameras.</p> <p>With FLIR Tools Mobile the camera can be stationed in one area and operated wirelessly from another – highly useful for IR inspections of energized equipment or performing IR surveys in hard-to-reach locations and harsh working environments. Streaming video and remote access also gives decision makers and others on your team a valuable opportunity to observe and collaborate in the thermal imaging process.</p>
<p>Using FLIR Tools Mobile, you can do one or more of the following:</p> <ul style="list-style-type: none"> • Import images from your infrared camera • Lay out and move measurement tools on the image • Read out temperature measurements • Zoom in on images • On the iPhone/iPad, remotely take snapshots when a camera is connected • On the camera, take snapshots that will automatically be saved in the iPhone/iPad • Delete any images on the iPhone/iPad • Display an image's GPS coordinates on Google Maps • Create and e-mail imagesheets • Create and e-mail reports • Print imagesheets and reports to any AirPrint-enabled printer • Save images to iPhone/iPad photo library • Send images to FTP sites and other file sharing services (Dropbox, Box.net, etc.) • Display image information, such as object parameters, text comments, file information, etc. • Play-back voice comments • Change level and span • Change general settings in the app • Change palette
<p>FLIR Tools Mobile lets you take control of the following features on selected cameras:</p> <ul style="list-style-type: none"> • Remote control of your FLIR camera. • Support for MSX (Multi-Spectral Dynamic Imaging) images. • Support for sketch images in both IR and visual with on/off toggling. • Support for same FOV ("Field of View Match"). • Editable text comments. • Auto and manual focus • Level and span • Color palettes • Temperature measurement analytics • Spot • Area box • Circle • Line • Parameter settings • Emissivity • Reflected temperature • Relative humidity • Atmospheric temperature • IR and visible light image blending • Picture-in-picture • Thermal fusion • Image storage • MPEG 4 video • Radiometric JPEG stills



FLIR Tools Mobile (iPad/iPhone Application)

P/N: APP-10003

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>**Download**

The application can be downloaded from App Store, see the link below.

<http://itunes.apple.com/app/flir-tools/id511247887?mt=8>**Release notes**

Version

1.8.2

New features

Main improvements in version 1.8.2:
Various bug fixes.**System requirements**

Operating system

• iOS 8.0 or later

Hardware requirements

• iPhone
• iPad
• iPod**Compatible with the following products:**

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°

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Website

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Customer support

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General description

Compared to FLIR Tools, FLIR Tools+ has the following features:

- Radiometric Panorama incl. MSX
- Radiometric IR Video Recording
- Advanced Reporting

FLIR Tools/Tools+ is a software suite specifically designed to provide an easy way to update your camera and create inspection reports.

FLIR Tools+ main features:

- Manual IR/Visual Image Grouping
- Radiometric Panorama incl. MSX
- Radiometric IR Video Recording
- Advanced Reporting for Microsoft Office.
- Report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR).
- Import images from your camera to your computer.
- Apply filters when searching for images.
- Search all text in images and text annotations.
- Store the five latest search criteria's.
- Lay out, move, and resize measurement tools on any infrared image.
- Create PDF imagesheets of any images of your choice.
- Add headers, footers, and logos to imagesheets.
- Create PDF reports for images of your choice.
- Add headers, footers, and logos to reports.
- Report editor (report page preview and snap to grid).
- Sort function (by date, groups sorted by path, and groups sorted by date).
- Browse and purchase infrared cameras, software, and accessories in the webshop.
- Software localized to 21 languages.
- Support for MSX (Multi-Spectral Dynamic Imaging) Images
- Support for Sketch Images on both IR and Visual with toggling ON/OFF feature.
- Support for Same FOV (Field of View Match)
- Display of Compass Information in Edit and in Report.
- Display of GPS Information in Edit and in Report.
- Camera update (applies to FLIR Ex, Kxx, Exx and T6xx series only).

Download

Download a 30-day evaluation version here:

<http://support.flir.com/toolsplus>

Release notes

Version	5.9
New features in version 5.9	<ul style="list-style-type: none"> • Additional trigger options for FLIR K53, K55, and K65 cameras • Added user account registration and login • New Pleora version support • Various bug fixes
New features in version 5.7	<ul style="list-style-type: none"> • Five modes supported for K65, K55, and K53 cameras. • Support for Kx3 cameras. • Auto gain mode now available for K2 cameras. • Various bug fixes.



FLIR Tools+ (download card incl. license key)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Release notes	
New features in version 5.5	<ul style="list-style-type: none"> Added support for Microsoft Office 2016 (32-bit) for the FLIR Word Reporting module. Various bug fixes.
New features in version 5.3	<ul style="list-style-type: none"> Support for the FLIR T1020 and T1040 cameras for import, edit, report creation, and camera update. Support for the FLIR K2 camera for configuration, video streaming, and camera update. Delta (difference) readings are now on one line instead of two.
New features in version 5.2.1	<ul style="list-style-type: none"> Option added to change color distribution mode (histogram equalization, signal linear, temperature linear). "Rapid Report" shortcuts added to simplify reporting using a drag-and-drop operation. Option added to extract photos at their full field of view. Two new templates for express export added (Photo_Large and Thermalx1 Photox2). Various bug fixes.
New features in version 5.2	<ul style="list-style-type: none"> Support for auto-adjusting a region. Support for zoom. Express Microsoft Word reporting (*.docx). Various bug fixes.
New features in version 5.1	<ul style="list-style-type: none"> Improved import performance. Added support for video recording settings for FLIR Kxx series. Added support for importing video files from FLIR Kxx series. Added support for FLIR C2 camera. Various bug fixes.
New features in version 5.0	<ul style="list-style-type: none"> Local object parameters for measurement tools. Save a report in-process with the ability to edit at a later time. Pull-down menus for text annotations. Variable playback speed for recordings. Show or hide min./max./avg. temperature, and hot/cold markers, for areas and lines. Smoother display for low-resolution images. UltraMax image enhancement. Dropping support for Windows XP. Various bug fixes.
New features in version 4.1	<ul style="list-style-type: none"> Previous/next in Edit mode. Clone in the Library. Extract visual photo from a multispectral image. Import *.mp4, *.seq, and *.csq files from the camera. Playback/edit *.seq and *.csq files. Scale enhancement for the FLIR GF3xx series. Auto resize of thumbnails during importing for the FLIR T6xx series. Grouping/ungrouping now added. Various bug fixes.
New features in version 4.0	<ul style="list-style-type: none"> Support for the new FLIR Ex and Exx series cameras. Interactive quick start guide when connecting a FLIR camera. Improved library view. Support for multispectral images. Support for auto-oriented images. Various bug fixes.
New features in version 3.1	<ul style="list-style-type: none"> Support for FLIR K series cameras. Interactive quick start guide when connecting a FLIR K series camera. Live image streaming from FLIR K series cameras. PC-side configuration of FLIR K series cameras. New report templates for DC images only added. Various bug fixes.



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Customer support

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Release notes	
New features in version 3.0	<ul style="list-style-type: none"> Add folder to library. Support for isotherms and color alarms Image description for both IR and DC. Export functionality (*.avi, *.csv). Microsoft Windows 8 (32- and 64-bit) New web installer Radiometric panorama with MSX images. Advanced reports. Manual grouping/ungrouping of images. Various bug fixes.
New features in version 2.2	<ul style="list-style-type: none"> Camera tab: <ul style="list-style-type: none"> Logging feature in Camera Tab Recording and playback of SEQ files. Various bug fixes.

Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> FLIR Tools+ (download card incl. license key)
Packaging, weight	0.059 kg (0.13 lb.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	73325585378 4743254001442 (Estonia plant)
UPC-12	845188005580
Country of origin	Sweden

System requirements	
Operating system	<ul style="list-style-type: none"> Windows 7, 32-bit Windows 7, 64-bit Windows 8, 32-bit Windows 8, 64-bit Windows 10, 32-bit Windows 10, 64-bit
Software requirements	<ul style="list-style-type: none"> Office 2007 (32-bit) Office 2010 (32-bit) Office 2013 (32-bit) Office 2016 (32-bit)

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)



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Website

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Customer support

<http://support.flir.com>

- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 73309-0102; FLIR A35 f=9 mm with SC kit
- 83225-0101; FLIR A35 FOV 13 (60 Hz, ver. 2017)
- 83213-0102; FLIR A35 FOV 25 (60 Hz, ver. 2017)
- 83207-0102; FLIR A35 FOV 45 (60 Hz, ver. 2017)
- 83250-0101; FLIR A35 FOV 6.5 (60 Hz, ver. 2017)
- 83209-0102; FLIR A35 FOV 69 (30 Hz, ver. 2017)
- 73413-0102; FLIR A65 f=13 mm with SC kit (30 Hz)
- 73513-0102; FLIR A65 f=13 mm with SC kit (7.5 Hz)
- 75050-0101; FLIR A65 FOV 12.4 (30 Hz, ver. 2016)
- 75025-0101; FLIR A65 FOV 25 (30 Hz, ver. 2016)
- 75013-0101; FLIR A65 FOV 45 (30 Hz, ver. 2016)
- 75010-0101; FLIR A65 FOV 6.2 (30 Hz, ver. 2016)
- 75007-0101; FLIR A65 FOV 90 (30 Hz, ver. 2016)
- 48201-1001; FLIR A300
- 42701-1001; FLIR A300 (9 Hz)
- 48201-1101; FLIR A310
- 42701-1101; FLIR A310 (9 Hz)
- 48001-1101; FLIR A315
- 42901-1101; FLIR A315 (9 Hz)
- 48201-1201; FLIR A320 Tempscreen
- 42701-1201; FLIR A320 Tempscreen (9 Hz)
- 48001-1001; FLIR A325sc
- 61201-1003; FLIR A300f 25°
- 61201-1004; FLIR A300f 45°
- 61201-1102; FLIR A310f 15°
- 61201-1103; FLIR A310f 25°
- 61201-1104; FLIR A310f 45°
- 61201-1101; FLIR A310f 6°
- 61201-1105; FLIR A310f 90°
- 61201-1203; FLIR A315f 25°
- 61201-1204; FLIR A315f 45°
- 61201-1205; FLIR A315f 90°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55001-0101; FLIR A615 15°
- 55001-0102; FLIR A615 25°
- 55001-0103; FLIR A615 45°
- 55001-0104; FLIR A615 7°
- 55001-0105; FLIR A615 80°
- 55001-0301; FLIR A655sc 15°
- 55001-0302; FLIR A655sc 25°
- 55001-0303; FLIR A655sc 45°
- 55001-0304; FLIR A655sc 7°
- 55001-0305; FLIR A655sc 80°
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 84502-0201; FLIR E53 24°
- 78501-0101; FLIR E75 14°
- 78502-0101; FLIR E75 24°
- 78504-0101; FLIR E75 24° + 14°
- 78506-0101; FLIR E75 24° + 14° & 42°
- 78505-0101; FLIR E75 24° + 42°
- 78503-0101; FLIR E75 42°
- 78507-0101; FLIR E75 42° + 14°
- 78501-0201; FLIR E85 14°
- 78502-0201; FLIR E85 24°
- 78504-0201; FLIR E85 24° + 14°
- 78506-0201; FLIR E85 24° + 14° & 42°
- 78505-0201; FLIR E85 24° + 42°
- 78503-0201; FLIR E85 42°
- 78507-0201; FLIR E85 42° + 14°
- 78501-0301; FLIR E95 14°
- 78502-0301; FLIR E95 24°
- 78504-0301; FLIR E95 24° + 14°
- 78506-0301; FLIR E95 24° + 14° & 42°
- 78505-0301; FLIR E95 24° + 42°
- 78503-0301; FLIR E95 42°
- 78507-0301; FLIR E95 42° + 14°
- 63901-0101; FLIR E4
- 63906-0604; FLIR E4 (incl. Wi-Fi)
- 63905-0501; FLIR E5
- 63909-0904; FLIR E5 (incl. Wi-Fi)
- 63902-0202; FLIR E6
- 63907-0704; FLIR E6 (incl. Wi-Fi)
- 63903-0303; FLIR E8
- 63908-0805; FLIR E8 (incl. Wi-Fi)
- 79301-0101; FLIR T530 14°
- 79302-0101; FLIR T530 24°
- 79304-0101; FLIR T530 24° + 14°
- 79306-0101; FLIR T530 24° + 14° & 42°
- 79305-0101; FLIR T530 24° + 42°
- 79303-0101; FLIR T530 42°
- 79307-0101; FLIR T530 42° + 14°
- 79301-0201; FLIR T540 14°
- 79302-0201; FLIR T540 24°
- 79304-0201; FLIR T540 24° + 14°



P/N: T198583

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 79306-0201; FLIR T540 24° + 14° & 42°
- 79305-0201; FLIR T540 24° + 42°
- 79303-0201; FLIR T540 42°
- 79307-0201; FLIR T540 42° + 14°
- 72001-0101; FLIR C2
- 72002-0202; FLIR C2 Educational Kit
- 72003-0303; FLIR C3 (incl. Wi-Fi)
- 72003-0404; FLIR C3 (incl. Wi-Fi) Educational Kit

P/N: T910930ACC

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
This cable is used to connect the infrared camera with an external display.	

Physical data	
Weight	159 g (5.6 oz.)
Cable length	1.5 m (4.9 ft.)
Connector	HDMI type C to DVI

Shipping information	
Packaging, type	Cardboard box
Packaging, weight	221 g (7.8 oz.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558006290
UPC-12	845188006648
Country of origin	Sweden

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

This cable is used to connect the infrared camera with an external display.

Physical data

Weight	137 g (4.8 oz.)
Cable length	1.5 m (4.9 ft.)
Connector	HDMI type C to HDMI type A

Shipping information

Packaging, type	Cardboard box
Packaging, weight	201 g (7.1 oz.)
Packaging, size	202 × 146 × 25 mm (8.0 × 5.7 × 1.0 in.)
EAN-13	7332558006306
UPC-12	845188006655
Country of origin	Sweden

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)



HDMI type C to HDMI type A cable 1.5 m

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Website

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Customer support

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- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)

P/N: T199066

Revision

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Website

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Customer support

<http://support.flir.com>



General description	
The 45° has a field of view approximately two times that of the standard 28° lens. This wide angle lens is suitable for cramped situations where the operator cannot step farther back from the object.	
Imaging and optical data	
Field of view (FOV)	45° × 34° (55.2° diagonal)
Minimum focus distance	0.2 m (0.66 ft.)
Focal length	21.2 mm (0.83 in.)
Spatial resolution (IFOV)	0.80 mrad
Lens identification	Automatic
F-number	1.1
Number of lenses	4 (4 asph)
Distortion	1.71%
Physical data	
Weight	0.754 kg (1.66 lb.)
Size (L × D)	96.9 × 91 mm (3.82 × 3.58 in.)
Front lens diameter	59 mm (2.3 in.)
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Lens • Lens case • Front lens cap • Rear lens cap • Mounting instruction
Packaging, weight	1.1 kg (2.4 lb.)
Packaging, size	173 × 135 × 135 mm (6.81 × 5.31 × 5.31 in.)
EAN-13	7332558010990
UPC-12	845188011840
Country of origin	Sweden

Compatible with the following products

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°



IR lens f=21.2 mm (45°) with case

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
The standard 28° lens is suitable for the majority of applications.	
Imaging and optical data	
Field of view (FOV)	28° × 21° (34.5° diagonal)
Minimum focus distance	0.4 m (1.32 ft.)
Focal length	36 mm (1.42 in.)
Spatial resolution (IFOV)	0.47 mrad
Lens identification	Automatic
F-number	1.15
Number of lenses	4 (4 asph)
Distortion	2.8%
Physical data	
Weight	0.730 kg (1.61 lb.)
Size (L × D)	93.4 × 91 mm (3.68 × 3.58 in.)
Front lens diameter	64 mm (2.5 in.)
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Lens • Lens case • Front lens cap • Rear lens cap • Mounting instruction
Packaging, weight	1.1 kg (2.4 lb.)
Packaging, size	173 × 135 × 135 mm (6.81 × 5.31 × 5.31 in.)
EAN-13	7332558010983
UPC-12	845188011833
Country of origin	Sweden

Compatible with the following products

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°



IR lens, f=36 mm (28°) with case

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°

P/N: T199077

Revision

39047

Last modified

2016-12-15 10:20 UTC+1

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General description	
The 12° lens provides approximately two times magnification compared to the standard 28° lens. This lens is ideal for small or distant targets, such as overhead power lines.	
Imaging and optical data	
Field of view (FOV)	12° × 9° (15.2° diagonal)
Minimum focus distance	1.3 m (4.26 ft.)
Focal length	83.4 mm (3.28 in.)
Spatial resolution (IFOV)	0.20 mrad
Lens identification	Automatic
F-number	1.2
Number of lenses	5 (5 asph)
Distortion	2.2%
Physical data	
Weight	1.06 kg (2.34 lb.)
Size (L × D)	134.1 × 100.5 mm (5.28 × 3.96 in.)
Front lens diameter	75 mm (3.0 in.)
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Lens • Lens case • Front lens cap • Rear lens cap • Mounting instruction
Packaging, weight	1.4 kg (3.1 lb.)
Packaging, size	212 × 150 × 150 mm (8.35 × 5.91 × 5.91 in.)
EAN-13	7332558011010
UPC-12	845188011864
Country of origin	Sweden

Compatible with the following products

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°



IR lens f=83.4 mm (12°) with case

P/N: T199077

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°

P/N: T198497

Revision

42932

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Website

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Customer support

<http://support.flir.com>



General description	
Soft eyecup for the viewfinder on the camera.	

Physical data	
Color	Black

Shipping information	
Packaging, type	Cardboard box
List of contents	• Eyecup
Packaging, weight	0.068 kg (0.15 lb.)
Packaging, size	170 × 64 × 75 mm (6.7 × 2.5 × 3.0 in.)
EAN-13	7332558004388
UPC-12	845188004385
Country of origin	Sweden

Compatible with the following products:

- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)



Large eyecup

P/N: T198497

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)

P/N: T198506

Revision

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Website

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Customer support

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General description	
High capacity battery for the IR camera.	
Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	3.7 V
Battery capacity	7.8 Ah
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 90% capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
Environmental data	
Battery storage temperature range	-40°C to +70°C (-40°F to +158°F)
Physical data	
Battery weight	0.173 kg (0.38 lb.)
Size (L x W x H)	84 x 49 x 60 mm (3.3 x 1.9 x 2.4 in.)
Shipping information	
Packaging, type	Cardboard box
Packaging, weight	0.272 kg (0.6 lb.)
Packaging, size	183 x 136 x 63 mm (7.2 x 5.4 x 2.5 in.)
EAN-13	7332558004456
UPC-12	845188004453
Country of origin	Sweden

Compatible with the following products:

- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0103; FLIR T1020 45°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)



Li-Ion Battery pack 3.7V 29Wh

P/N: T198506

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Website

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Customer support

<http://support.flir.com>

- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)

P/N: T911650ACC

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Website

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Customer support

<http://support.flir.com>



General description	
SD Card for data storage (e.g. images)	
Data communication interfaces	
Memory card, size	8 GB
Physical data	
Weight	2 g (0.07 oz.)
Size (L x W x H)	32.0 x 24.0 x 2.1 mm (1.26 x 0.94 x 0.08 in.)
Shipping information	
Packaging, type	Cardboard box
List of contents	• SD Card
Packaging, weight	65 g (2.3 oz.)
Packaging, size	170 x 64 x 75 mm (6.69 x 2.52 x 2.95 in.)
EAN-13	7332558012628
UPC-12	845188013776
Country of origin	Sweden

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)



Memory card SDHC 8 GB

P/N: T911650ACC

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens
- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 74902-0101; FLIR GFx320 14.5° fixed lens
- 74902-0102; FLIR GFx320 24° fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)



Memory card SDHC 8 GB

P/N: T911650ACC

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

P/N: T198499

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
Neck strap to carry the camera.	
Physical data	
Color	Black
Shipping information	
Packaging, type	Cardboard box
List of contents	• Neck strap
Packaging, weight	0.168 kg (0.37 lb.)
Packaging, size	183 × 136 × 63 mm (7.2 × 5.4 × 2.5 in.)
EAN-13	7332558004401
UPC-12	845188004408
Country of origin	Sweden

Compatible with the following products:

- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)



Neck strap

P/N: T198499

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)

P/N: T910814

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
FLIR P/B/SC6xx and FLIR GF3xx series: Power supply, including multiple plugs, to charge the battery when it is inside or outside of the camera.	
FLIR T6xx and FLIR Exx series: Power supply, including multiple plugs, to charge the battery when it is inside the camera or in the battery charger.	
Power system	
AC operation	100–240 VAC, 50/60 Hz, 12 VDC out
Power	3000 mA at 12 VDC
Physical data	
Cable length	1.98 m (6.5 ft.)
Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> • Power supply including cable • EU plug • UK plug • US plug • AU plug
Packaging, weight	0.324 kg (9.7 lb.)
Packaging, size	152 × 78 × 73 mm (6.0 × 3.1 × 2.9 in.)
EAN-13	7332558003794 4743254001763 (Estonia plant)
UPC-12	845188002145
Country of origin	Sweden

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°

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Website

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Customer support

<http://support.flir.com>

- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)
- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 44401-0201; FLIR GF300 14.5°
- 44402-0201; FLIR GF300 14.5° Fixed lens
- 44401-0202; FLIR GF300 24°
- 44402-0202; FLIR GF300 24° Fixed lens
- 59601-0101; FLIR GF304 14.5°
- 59602-0101; FLIR GF304 14.5° Fixed lens
- 59601-0102; FLIR GF304 24°
- 59602-0102; FLIR GF304 24° Fixed lens
- 44201-0101; FLIR GF306 14.5°
- 44202-0101; FLIR GF306 14.5° Fixed lens
- 44201-0102; FLIR GF306 24°
- 44202-0102; FLIR GF306 24° Fixed lens
- 44601-0101; FLIR GF309 14.5°
- 44602-0101; FLIR GF309 14.5° Fixed lens
- 44601-0102; FLIR GF309 24°
- 44602-0102; FLIR GF309 24° Fixed lens
- 44401-0101; FLIR GF320 14.5°
- 44402-0101; FLIR GF320 14.5° Fixed lens
- 44401-0102; FLIR GF320 24°
- 44402-0102; FLIR GF320 24° Fixed lens



Power supply, incl. multi plugs

P/N: T910814

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 57501-0102; FLIR GF335 24°
- 59801-0101; FLIR GF346 14.5°
- 59802-0101; FLIR GF346 14.5° Fixed lens
- 59801-0102; FLIR GF346 24°
- 59802-0102; FLIR GF346 24° Fixed lens
- 74902-0101; FLIR GFx320 14.5° fixed lens
- 74902-0102; FLIR GFx320 24° fixed lens
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)

P/N: T911093

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
Tool belt for FLIR camera pouches.	

Physical data	
Weight	0.117 kg (0.26 lb.)
Length	1.44 m (4.7 ft.)
Color	Black

Shipping information	
Packaging, type	Cardboard box
List of contents	• Tool belt
Packaging, weight	0.318 kg (0.7 lb.)
Packaging, size	243 × 165 × 82 mm (9.6 × 6.5 × 3.2 in.)
EAN-13	7332558003442 4743254000384 (Estonia plant)
UPC-12	845188003210
Country of origin	Estonia

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 55903-1015; FLIR T600 15° (incl. Wi-Fi and Ext. cal.)
- 55903-0922; FLIR T600 15° (incl. Wi-Fi)
- 55903-1016; FLIR T600 25° (incl. Wi-Fi and Ext. cal.)
- 55903-1022; FLIR T600 25° (incl. Wi-Fi)
- 55903-1007; FLIR T600 25° and 15° w/case
- 55903-1008; FLIR T600 25° and 45° w/case
- 55903-1017; FLIR T600 45° (incl. Wi-Fi and Ext. cal.)
- 55903-1522; FLIR T600 45° (incl. Wi-Fi)
- 55903-2823; FLIR T600bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-2822; FLIR T600bx 25° (incl. Wi-Fi)
- 55903-2923; FLIR T600bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-2922; FLIR T600bx 45° (incl. Wi-Fi)
- 55903-8022; FLIR T610 15° (incl. Wi-Fi)
- 55903-3922; FLIR T610 25° (incl. Wi-Fi)

P/N: T911093

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

- 55903-4022; FLIR T610 45° (incl. Wi-Fi)
- 55903-5023; FLIR T620 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5022; FLIR T620 15° (incl. Wi-Fi)
- 55903-5125; FLIR T620 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5122; FLIR T620 25° (incl. Wi-Fi)
- 55903-5123; FLIR T620 25° and 15° (incl. Wi-Fi)
- 55903-5124; FLIR T620 25° and 45° (incl. Wi-Fi)
- 55903-5223; FLIR T620 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5222; FLIR T620 45° (incl. Wi-Fi)
- 55903-5623; FLIR T620bx 15° (incl. Wi-Fi and Ext. cal.)
- 55903-5622; FLIR T620bx 15° (incl. Wi-Fi)
- 55903-5723; FLIR T620bx 25° (incl. Wi-Fi and Ext. cal.)
- 55903-5722; FLIR T620bx 25° (incl. Wi-Fi)
- 55903-5823; FLIR T620bx 45° (incl. Wi-Fi and Ext. cal.)
- 55903-5822; FLIR T620bx 45° (incl. Wi-Fi)
- 55904-6222; FLIR T630 15° (incl. Wi-Fi)
- 55904-6322; FLIR T630 25° (incl. Wi-Fi)
- 55904-6422; FLIR T630 45° (incl. Wi-Fi)
- 55904-8023; FLIR T630sc 15° (incl. Wi-Fi)
- 55904-8123; FLIR T630sc 25° (incl. Wi-Fi)
- 55904-8124; FLIR T630sc 25° and 45° w/case
- 55904-8223; FLIR T630sc 45° (incl. Wi-Fi)
- 55904-6823; FLIR T640 15° (incl. Wi-Fi and Ext. cal.)
- 55904-6822; FLIR T640 15° (incl. Wi-Fi)
- 55904-6925; FLIR T640 25° (incl. Wi-Fi and Ext. cal.)
- 55904-6922; FLIR T640 25° (incl. Wi-Fi)
- 55904-6923; FLIR T640 25° and 15° (incl. Wi-Fi)
- 55904-6924; FLIR T640 25° and 45° (incl. Wi-Fi)
- 55904-7023; FLIR T640 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7022; FLIR T640 45° (incl. Wi-Fi)
- 55904-7423; FLIR T640bx 15° (incl. Wi-Fi and Ext. cal.)
- 55904-7422; FLIR T640bx 15° (incl. Wi-Fi)
- 55904-7523; FLIR T640bx 25° (incl. Wi-Fi and Ext. cal.)
- 55904-7522; FLIR T640bx 25° (incl. Wi-Fi)
- 55904-7623; FLIR T640bx 45° (incl. Wi-Fi and Ext. cal.)
- 55904-7622; FLIR T640bx 45° (incl. Wi-Fi)
- 55904-7723; FLIR T650sc 15° (incl. Wi-Fi)
- 55904-8704; FLIR T650sc 25°
- 55904-7823; FLIR T650sc 25° (incl. Wi-Fi)
- 55904-7824; FLIR T650sc 25° and 15° w/case
- 55904-7825; FLIR T650sc 25° and 45° w/case
- 55904-7923; FLIR T650sc 45° (incl. Wi-Fi)
- 55904-8423; FLIR T660 15° (incl. Wi-Fi and Ext. cal.)
- 55904-8422; FLIR T660 15° (incl. Wi-Fi)
- 55904-8523; FLIR T660 25° (incl. Wi-Fi and Ext. cal.)
- 55904-8522; FLIR T660 25° (incl. Wi-Fi)
- 55904-8524; FLIR T660 25° and 15° w/case
- 55904-8525; FLIR T660 25° and 45° w/case
- 55904-8623; FLIR T660 45° (incl. Wi-Fi and Ext. cal.)
- 55904-8622; FLIR T660 45° (incl. Wi-Fi)
- 64502-0801; FLIR E33
- 64502-1001; FLIR E40
- 64501-0101; FLIR E40 (incl. Wi-Fi)
- 64501-0103; FLIR E40 with SC kit (incl. Wi-Fi and 45° lens)
- 64501-0114; FLIR E40 with SC kit (incl. Wi-Fi)
- 64501-0501; FLIR E40bx (incl. Wi-Fi)
- 64502-1101; FLIR E50
- 64501-0201; FLIR E50 (incl. Wi-Fi)
- 64501-0601; FLIR E50bx (incl. Wi-Fi)
- 64502-1202; FLIR E60
- 64501-0302; FLIR E60 (incl. Wi-Fi)
- 64501-0702; FLIR E60bx (incl. Wi-Fi)
- 64501-0402; FLIR E63 (incl. Wi-Fi)
- 63901-0101; FLIR E4
- 63906-0604; FLIR E4 (incl. Wi-Fi)
- 63905-0501; FLIR E5
- 63909-0904; FLIR E5 (incl. Wi-Fi)
- 63902-0202; FLIR E6
- 63907-0704; FLIR E6 (incl. Wi-Fi)
- 63903-0303; FLIR E8
- 63908-0805; FLIR E8 (incl. Wi-Fi)

P/N: T198533

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
This cable is used to connect the infrared camera with a computer, using the USB protocol.	

Physical data	
Weight	60 g (2.1 oz.)
Cable length	1.8 m (5.9 ft.)
Connector	Standard USB-A to USB Micro-B

Shipping information	
Packaging, weight	0.100 kg
Packaging, size	170 × 75 × 65 mm
EAN-13	7332558004869 4743254001077 (Estonia plant)
UPC-12	845188004927
Country of origin	Estonia

Compatible with the following products:

- 72502-0501; FLIR T1010 12°
- 72502-0502; FLIR T1010 28°
- 72502-0503; FLIR T1010 45°
- 72501-0101; FLIR T1020 12°
- 72501-0102; FLIR T1020 28°
- 72501-0104; FLIR T1020 28° and 12°
- 72501-0105; FLIR T1020 28° and 45°
- 72501-0106; FLIR T1020 28°, 12°, and 45°
- 72501-0103; FLIR T1020 45°
- 72501-0201; FLIR T1030sc 12°
- 72501-0202; FLIR T1030sc 28°
- 72501-0203; FLIR T1030sc 45°
- 72501-0301; FLIR T1040 12°
- 72501-0302; FLIR T1040 28°
- 72501-0303; FLIR T1040 45°
- 72501-0401; FLIR T1050sc 12°
- 72501-0402; FLIR T1050sc 28°
- 72501-0403; FLIR T1050sc 45°
- 63901-0101; FLIR E4
- 63906-0604; FLIR E4 (incl. Wi-Fi)
- 63905-0501; FLIR E5
- 63909-0904; FLIR E5 (incl. Wi-Fi)
- 63902-0202; FLIR E6
- 63907-0704; FLIR E6 (incl. Wi-Fi)
- 63903-0303; FLIR E8
- 63908-0805; FLIR E8 (incl. Wi-Fi)
- 73701-0101; FLIR K2
- 72001-0101; FLIR C2
- 72002-0202; FLIR C2 Educational Kit
- 72003-0303; FLIR C3 (incl. Wi-Fi)
- 72003-0404; FLIR C3 (incl. Wi-Fi) Educational Kit

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Accessories for FLIR ThermaCAM GasFindIR series

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P/N: 20889-200

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
100 mm Lens	
Licensing and classification	
License information	Interchangeable lens version of the ThermaCAM™ GasFindIR Class I, Div II, the ThermaCAM™ GasFindIR CO and the ThermaCAM™ GasFindIR HSX requires US Department of State License and will be subject to limitations on resale, except inside US. Allow a minimum of 90 days after application submittal for approval.

Imaging and optical data	
Field of view (FOV)	5.5° × 4°
Focal length	100 mm (3.94 in.)
Spatial resolution (IFOV)	0.3 mrad
F-number	2.3

Shipping information	
List of contents	<ul style="list-style-type: none"> • Lens • Lens cap • Lens case

Compatible with the following products:

- 24059-251; ThermaCAM™ GasFindIR 25 mm lens Class I Div II PAL
- 24059-200; ThermaCAM™ GasFindIR 25 mm lens Class I Div II NTSC

P/N: 23563-202

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Licensing and classification	
License information	Interchangeable lens version of the ThermaCAM™ GasFindIR LW requires US Department of State License and will be subject to limitations on resale, except inside US. Allow a minimum of 90 days after application submittal for approval.
Imaging and optical data	
Field of view (FOV)	5.5° × 4°
Focal length	100 mm (3.94 in.)
Spatial resolution (IFOV)	0.3 mrad
F-number	2.0
Shipping information	
List of contents	<ul style="list-style-type: none">• Lens• Lens cap• Lens case

Compatible with the following products:

- N/A

P/N: 20887-200

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description
This lens is suitable for the majority of applications.

Licensing and classification	
License information	Interchangeable lens version of the ThermaCAM™ GasFindIR Class I, Div II, the ThermaCAM™ GasFindIR CO and the ThermaCAM™ GasFindIR HSX requires US Department of State License and will be subject to limitations on resale, except inside US. Allow a minimum of 90 days after application submittal for approval.

Imaging and optical data	
Field of view (FOV)	22° × 16°
Focal length	25 mm (0.98 in.)
Spatial resolution (IFOV)	1.2 mrad
F-number	2.3

Compatible with the following products:

- 24059-251; ThermaCAM™ GasFindIR 25 mm lens Class I Div II PAL
- 24059-200; ThermaCAM™ GasFindIR 25 mm lens Class I Div II NTSC

P/N: 23563-201

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Licensing and classification	
License information	Interchangeable lens version of the ThermaCAM™ GasFindIR LW requires US Department of State License and will be subject to limitations on resale, except inside US. Allow a minimum of 90 days after application submittal for approval.

Imaging and optical data	
Field of view (FOV)	22° × 16°
Focal length	25 mm (0.98 in.)
Spatial resolution (IFOV)	1.2 mrad
F-number	2.0

Shipping information	
List of contents	<ul style="list-style-type: none"> • Lens • Lens caps • Lens case

Compatible with the following products:

- N/A

P/N: 20888-200

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
50 mm Lens	
Licensing and classification	
License information	Interchangeable lens version of the ThermaCAM™ GasFindIR Class I, Div II, the ThermaCAM™ GasFindIR CO and the ThermaCAM™ GasFindIR HSX requires US Department of State License and will be subject to limitations on resale, except inside US. Allow a minimum of 90 days after application submittal for approval.
Imaging and optical data	
Field of view (FOV)	11° x 8°
Focal length	50 mm (1.97 in.)
Spatial resolution (IFOV)	0.6 mrad
F-number	2.3
Shipping information	
List of contents	<ul style="list-style-type: none"> • Lens • Lens cap • Lens case

Compatible with the following products:

- 24059-251; ThermaCAM™ GasFindIR 25 mm lens Class I Div II PAL
- 24059-200; ThermaCAM™ GasFindIR 25 mm lens Class I Div II NTSC

P/N: 21466-000

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

**General description**

This cable is used to connect the infrared camera to an external personal video recorder.

Compatible with the following products:

- 24059-250; ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II PAL
- 24059-201; ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II NTSC
- 24059-251; ThermaCAM™ GasFindIR 25 mm lens Class I Div II PAL
- 24059-200; ThermaCAM™ GasFindIR 25 mm lens Class I Div II NTSC

P/N: 17151-002

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

**General description**

Battery Charger (NiMH)

Compatible with the following products:

- 24059-250; ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II PAL
- 24059-201; ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II NTSC
- 24059-251; ThermaCAM™ GasFindIR 25 mm lens Class I Div II PAL
- 24059-200; ThermaCAM™ GasFindIR 25 mm lens Class I Div II NTSC

P/N: 20981-500

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

**General description**

This cable is used to transfer S-video signals from the infrared camera to an external monitor, or to a computer featuring an internal video card.

Compatible with the following products:

- 24059-250; ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II PAL
- 24059-201; ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II NTSC
- 24059-251; ThermaCAM™ GasFindIR 25 mm lens Class I Div II PAL
- 24059-200; ThermaCAM™ GasFindIR 25 mm lens Class I Div II NTSC

P/N: 03198-000

Revision

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>**General description**

This cable is used to transfer video signals from the infrared camera to an external monitor, or to a computer featuring an internal video card.

Physical data

Cable length	1.8 m (6 ft.)
Connector	BNC

Compatible with the following products:

- 24059-250; ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II PAL
- 24059-201; ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II NTSC
- 24059-251; ThermaCAM™ GasFindIR 25 mm lens Class I Div II PAL
- 24059-200; ThermaCAM™ GasFindIR 25 mm lens Class I Div II NTSC

P/N: 14730-000

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>**General description**

This cable is used to connect the infrared camera with a computer, using serial communication (RS-232).

Physical data

Connector	9-pin D-sub, DB9
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Compatible with the following products:

- 24059-250; ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II PAL
- 24059-201; ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II NTSC
- 24059-251; ThermaCAM™ GasFindIR 25 mm lens Class I Div II PAL
- 24059-200; ThermaCAM™ GasFindIR 25 mm lens Class I Div II NTSC

P/N: 17619-200

Revision

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>**General description**

DR 11 NiMH Battery

Power system

Battery type	NiMH
Battery voltage	6 V
Battery capacity	4.2 Ah

Compatible with the following products:

- 24059-250; ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II PAL
- 24059-201; ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II NTSC
- 24059-251; ThermaCAM™ GasFindIR 25 mm lens Class I Div II PAL
- 24059-200; ThermaCAM™ GasFindIR 25 mm lens Class I Div II NTSC

P/N: 3301011

Revision

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

General description	
Hard Transport Case	
Physical data	
Color	Black

Compatible with the following products:

- 24059-250; ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II PAL
- 24059-201; ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II NTSC
- 24059-251; ThermaCAM™ GasFindIR 25 mm lens Class I Div II PAL
- 24059-200; ThermaCAM™ GasFindIR 25 mm lens Class I Div II NTSC

P/N: 24016-000

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>**General description**

Lens Hood for 25 mm lens

Physical data

Color

Black

Compatible with the following products:

- 24059-251; ThermaCAM™ GasFindIR 25 mm lens Class I Div II PAL
- 24059-200; ThermaCAM™ GasFindIR 25 mm lens Class I Div II NTSC

P/N: 24016-001

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>**General description**

Lens Hood for 50 mm lens

Physical data

Color

Black

Compatible with the following products:

- 24059-251; ThermaCAM™ GasFindIR 25 mm lens Class I Div II PAL
- 24059-200; ThermaCAM™ GasFindIR 25 mm lens Class I Div II NTSC

P/N: 24779-200

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
Li Ion Battery	

Power system	
Battery type	Li Ion
Battery voltage	7.5 V
Battery capacity	7.8 Ah

Shipping information	
Packaging, type	
Packaging, weight	
Packaging, size	
EAN-13	7332558009383
UPC-12	845188009915
Country of origin	Sweden

Compatible with the following products:

- N/A

P/N: EXT-WAR-GCAM-LW

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description
One year extended warranty for GasFindIR LW

Compatible with the following products:

- N/A

P/N: EXT-WAR-GCAM

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description
One Year Extended Warranty for InSb GasFindIR

Compatible with the following products:

- 24059-250; ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II PAL
- 24059-201; ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II NTSC
- 24059-251; ThermaCAM™ GasFindIR 25 mm lens Class I Div II PAL
- 24059-200; ThermaCAM™ GasFindIR 25 mm lens Class I Div II NTSC

P/N: 09289-200

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42932

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2017-05-30 15:32 UTC+1

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General description	
Optical Cleaning Kit	
Shipping information	
List of contents	<ul style="list-style-type: none"> • Polishing cloth • Lens brush • Eyeglass cleaner • Case

Compatible with the following products:

- 24059-250; ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II PAL
- 24059-201; ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II NTSC
- 24059-251; ThermaCAM™ GasFindIR 25 mm lens Class I Div II PAL
- 24059-200; ThermaCAM™ GasFindIR 25 mm lens Class I Div II NTSC

P/N: 21465-000

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2017-05-30 15:32 UTC+1

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Website

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Customer support

<http://support.flir.com>



General description
Personal Video Recorder

Compatible with the following products:

- 24059-250; ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II PAL
- 24059-201; ThermaCAM™ GasFindIR 25 mm fixed lens Class I Div II NTSC
- 24059-251; ThermaCAM™ GasFindIR 25 mm lens Class I Div II PAL
- 24059-200; ThermaCAM™ GasFindIR 25 mm lens Class I Div II NTSC

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P/N: ITC-FEE-0120

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General description	
Certification DIN EN ISO 9712 TT Level 1.	
Course information	
Available languages	German (Austria, Germany, Switzerland only).
Course details	
Duration	1 day.

DIN EN ISO 9712 TT Level 1 Certification Course—excluding certification, attendance by 1 person (5 days)

P/N: ITC-CER-6101

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General description	
DIN EN ISO 9712 TT Level 1 Certification Course—excluding certification, attendance by 1 person (5 days).	
Content	
<ul style="list-style-type: none"> • Certification and standards. • Physics of infrared. • Radiation laws: Planck, Wien, and Stefan–Boltzmann. • Infrared camera technology. • Measurement parameters. • Transmission and reflection. • Thermal and spatial resolution (NETD, IFOV, and SRF) • Thermal image software. • Basics of heat, temperature, and thermodynamics. • Basics of temperature measurement. • Measurement uncertainty. • Heat transfer: conduction, convection, and radiation. • Applications 	
Laboratory sessions	
<ul style="list-style-type: none"> • Camera handling. • Level and span. • Measurement parameters. • Temperature measurement. • Useful camera functions. • Thermal capacity. • Emissivity determination • Building applications. • Electrical applications. • Industrial applications. 	
Course information	
Available languages	German (DACH only).
Target group	<ul style="list-style-type: none"> • Professional users. • Thermographers with some experience of camera handling and limited infrared knowledge who want to take their first step to becoming a professional thermographer and to qualifying as a Level 1 certified thermographer.



DIN EN ISO 9712 TT Level 1 Certification Course—excluding certification, attendance by 1 person (5 days)

P/N: ITC-CER-6101

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Website

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Course information	
Typical student	<ul style="list-style-type: none">Persons with a professional technical background such as technicians, engineers, consultants, or researchers who work in maintenance, building inspection, mechanical, or electrical applications, production, or R&D.Persons who already have some basic experience of infrared thermography.Persons with knowledge of the basic functions of an infrared camera.Persons who want to become a certified thermographer to gain a competitive advantage or who need the certification because of legal reasons or company internal regulations.
Prerequisites	<ul style="list-style-type: none">Technical background or education.Familiar with the basic operation of an infrared camera.Proof of practical experience: 7 days of practical work with a thermal camera or attended a 2 day introduction course.Proof of near-vision acuity and color vision, not older than 1 year.
Recommendations	<ul style="list-style-type: none">6 months of practical thermography experience.An understanding of physics.

Course details	
Duration	<ul style="list-style-type: none">Course: 5 daysExamination by external certification body (optional): 1 day
Structure	
Exam	Optional examination by external certification body (1 day): <ul style="list-style-type: none">Written exam (closed book) including multiple-choice questions.Practical examination and thermal image interpretation.
Course fee includes	<ul style="list-style-type: none">Tuition by an ITC-licensed instructor.Training materials in printed format.Refreshments.Diploma of attendance.Attendance by 1 person.May include more, such as lunch, depending on the location and the organizing body.
Note	Examination is not included in the course and must be ordered and paid separately.

Course organization	
ITC	The DIN EN ISO 9712 TT Level 1 Certification Course is offered by ITC Germany in Germany, Austria, and Switzerland. Specific customer requests should be forwarded to the closest ITC subsidiary listed in the "ITC Directory" (1560096).

DIN EN ISO 9712 TT Level 1 Certification Course—excluding certification, group of up to 10 persons (5 days)

P/N: ITC-CER-6109

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Website

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Customer support

<http://support.flir.com>

**General description**

DIN EN ISO 9712 TT Level 1 Certification Course—excluding certification, group of up to 10 persons (5 days)

Course information

Available languages

German (DACH only).

Course details

Duration

5 days.

P/N: ITC-ADV-3041

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Website

<http://www.flir.com>

Customer support

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General description	
<p>The core of the course (2 days) consists of lectures on theoretical subjects, plus hands-on practice. Additional days can be booked (ITC-ADV-3006). After a general review of heat and heat transfer, the participants will learn about radiative heat transfer. Starting with the standard measurement situation they will learn about the importance of emissivity and the reflected apparent temperature. The participants will compute and estimate emissivity and compensate for the reflected apparent temperature. They will also learn about calibration and FLIR's HyperCal software. Depending on the needs of the participants and the time available, additional topics to be covered may include measurement through windows, measurable figures of merit, signal generation, the influence of integration time, read-out integrated circuits (ROICs), etc., triggering and synchronization, and non-uniformity correction (NUC) and bad pixel replacement.</p>	
Content	
<ul style="list-style-type: none"> • Introduction. • Review of thermal transfer. • Radiative heat transfer. • What does a camera see? Definition of a standard measurement situation. • Computing the emissivity. Estimating the emissivity and reflected apparent temperature(with practice). • From radiation to signal. • Measurable figures of merit (with practice). • Triggering and synchronization (additional content, on request, with practice). • Measuring through a window (additional content, on request, with practice). • Calibration (additional content, on request, with practice). • Spectral filters (additional content, on request, with practice). • NUC and bad pixel replacement (additional content, on request, with practice). • Transient, lock-in and pulse, and the basics of non-destructive testing (NDT) (additional content, on request). 	
Laboratory sessions	
<ul style="list-style-type: none"> • Practice according to the content listed above. 	

Course information	
Available languages	English. Other languages on request.
Target group	<ul style="list-style-type: none"> • Users of FLIR cooled thermal cameras and systems (cameras connected to a PC with, for example, the software Altair, AltairLI, or Thesa). • Users of uncooled thermal cameras with an interest in advanced thermal measurement applications.
Typical student	<ul style="list-style-type: none"> • Laboratory and industry technical personnel. • Researchers and scientists. • University students. • Persons working with NDT.
Prerequisites	<ul style="list-style-type: none"> • None.
Recommendations	<ul style="list-style-type: none"> • Basic knowledge of thermography and related areas. • Experience of measurement techniques and general software skills.



FLIR Advanced R&D Measurements—attendance by 1 person (2 days)

P/N: ITC-ADV-3041

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Course details	
Duration	Standard: 2 days (in succession or separate). On request: Additional day including complementary topics (ITC-ADV-3006). On request: 1 day only (for experienced users with sufficient theoretical background).
Structure	Theory and hands-on sessions.
Exam	None.
Course fee includes	<ul style="list-style-type: none">• Tuition by an ITC-licensed instructor.• Training materials in printed format.• Diploma of attendance.• Attendance by 1 person.• May include more, such as lunch, refreshments, instructor's travel expenses, etc., depending on the location and the organizing body.
Note	This is normally an on-site course organized at a customer's facility. For open classes, please contact your closest ITC, ITC partner, or FLIR sales representative.

Course organization	
ITC	The FLIR Advanced R&D Measurements course is offered by ITC direct operations in EMEA. Specific customer requests should be forwarded to the closest ITC, ITC partner, or FLIR sales representative.
ITC trainers and licensed trainers	The FLIR Advanced R&D Measurements course is delivered by ITC-qualified instructors having relevant expertise in advanced thermal measurement, infrared applications, and use of the camera equipment including software.

P/N: ITC-ADV-3046

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Website

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Customer support

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General description

The core of the course (2 days) consists of lectures on theoretical subjects, plus hands-on practice. Additional days can be booked (ITC-ADV-3006). After a general review of heat and heat transfer, the participants will learn about radiative heat transfer. Starting with the standard measurement situation they will learn about the importance of emissivity and the reflected apparent temperature. The participants will compute and estimate emissivity and compensate for the reflected apparent temperature. They will also learn about calibration and FLIR's HyperCal software. Depending on the needs of the participants and the time available, additional topics to be covered may include measurement through windows, measurable figures of merit, signal generation, the influence of integration time, read-out integrated circuits (ROICs), etc., triggering and synchronization, and non-uniformity correction (NUC) and bad pixel replacement.

Content

- Introduction.
- Review of thermal transfer.
- Radiative heat transfer.
- What does a camera see? Definition of a standard measurement situation.
- Computing the emissivity. Estimating the emissivity and reflected apparent temperature (with practice).
- From radiation to signal.
- Measurable figures of merit (with practice).
- Triggering and synchronization (additional content, on request, with practice).
- Measuring through a window (additional content, on request, with practice).
- Calibration (additional content, on request, with practice).
- Spectral filters (additional content, on request, with practice).
- NUC and bad pixel replacement (additional content, on request, with practice).
- Transient, lock-in and pulse, and the basics of non-destructive testing (NDT) (additional content, on request).

Labs

- Practice according to content listed above

Course information

Available languages	English. Other languages on request.
Target group	<ul style="list-style-type: none"> • Users of FLIR cooled thermal cameras and systems (cameras connected to a PC with, for example, the software Altair, AltairLI, or Thesa). • Users of uncooled thermal cameras with an interest in advanced thermal measurement applications.
Typical student	<ul style="list-style-type: none"> • Laboratory and industry technical personnel. • Researchers and scientists. • University students. • Persons working with NDT.
Prerequisites	<ul style="list-style-type: none"> • None.
Recommendations	<ul style="list-style-type: none"> • Basic knowledge of thermography and related areas. • Experience of measurement techniques and general software skills.



FLIR Advanced R&D Measurements—group of up to 6 persons (2 days)

P/N: ITC-ADV-3046

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Course details	
Duration	Standard: 2 days (in succession or separate). On request: Additional day including complementary topics (ITC-ADV-3006). On request: 1 day only (for experienced users with sufficient theoretical background).
Structure	Theory and hands-on sessions.
Exam	None.
Course fee includes	<ul style="list-style-type: none">• Tuition by an ITC-licensed instructor.• Training materials in printed format.• Diploma of attendance.• Attendance by up to 6 persons.• May include more, such as lunch, refreshments, instructor's travel expenses, etc., depending on the location and the organizing body.
Note	This is normally an on-site course organized at a customer's facility. The fee does not include costs for the instructor's travel or lodging. The customer is responsible for providing access to the equipment or objects to be analyzed or measured, a suitable meeting room, and, ideally, refreshments/lunch.

Course organization	
ITC	The FLIR Advanced R&D Measurements course is offered by ITC direct operations in EMEA. Specific customer requests should be forwarded to the closest ITC, ITC partner, or FLIR sales representative.
ITC trainers and licensed trainers	The FLIR Advanced R&D Measurements course is delivered by ITC-qualified instructors having relevant expertise in advanced thermal measurement, infrared applications, and use of the camera equipment including software.

P/N: ITC-EXP-2036

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Website

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Customer support

<http://support.flir.com>



General description

This 2-day course consists of lectures on theoretical subjects, plus hands-on sessions. After a general review of heat and heat transfer, the participants will learn about radiative heat transfer and thermography equipment. Intensive practice using software is provided.

Content

- Introduction.
- Review of thermal transfer.
- Radiative heat transfer (includes estimation of the reflected apparent temperature and emissivity) with practice.
- Thermography equipment.
- Software, e.g., FLIR ThermoCAM Researcher, FLIR QuickPlot, or FLIR ResearchIR.

Laboratory sessions

- Measurements and software exercises.

Course information

Available languages	English. Other languages on request.
Target group	<ul style="list-style-type: none"> • Users of FLIR uncooled thermal cameras working with software programs such as FLIR ThermoCAM Researcher, FLIR QuickPlot, or FLIR ResearchIR. • Users of FLIR infrared applications in industry or at research institutions.
Typical student	<ul style="list-style-type: none"> • Laboratory and industry technical personnel. • Researchers and scientists. • University students.
Prerequisites	<ul style="list-style-type: none"> • None.
Recommendations	<ul style="list-style-type: none"> • Basic knowledge of thermography and related areas. • Experience of measurement techniques and general software skills.

Course details

Duration	<p>Standard: 2 days (in succession or separate).</p> <p>On request: Additional day including complementary topics (ITC-EXP-3006).</p> <p>On request: 1 day only (for experienced users with sufficient theoretical background).</p>
Structure	Theory and hands-on sessions.
Exam	None.



FLIR Industrial R&D Measurements—group of up to 6 persons (2 days)

P/N: ITC-EXP-2036

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Course details	
Course fee includes	<ul style="list-style-type: none">• Tuition by an ITC-licensed instructor.• Training and/or reference materials in printed format.• Diploma of attendance.• Attendance by a group of up to 6 persons.
Note	This is normally an on-site course organized at a customer's facility. The fee does not include the cost of the instructor's travel or lodging. The customer is responsible for providing access to the equipment or objects to be analyzed or measured, a suitable meeting room, and, ideally, also refreshments/lunch.

Course organization	
ITC	The FLIR Industrial R&D Measurements course is offered by ITC direct operations in EMEA. Specific customer requests should be forwarded to the closest ITC, ITC partner, or FLIR sales representative.
ITC trainers and licensed trainers	The FLIR Industrial R&D Measurements course is taught by ITC qualified instructors having relevant expertise in advanced thermal measurement, infrared applications, and the use of camera equipment including software.

P/N: ITC-ADV-3021

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Website

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Customer support

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General description	
<p>This interdisciplinary course bridges the gap between infrared thermography, background science, and applications. Being an overview course, it deals with three main application areas of thermography: electrical, industrial, and buildings. For each application the participant will learn about the specific theory, typical faults, and how to detect faults with a thermography camera. The student will also learn about the basics of condition monitoring, and maintenance.</p> <p>Examples and case studies from the real world illustrate the course content and are discussed with the participants. Participants will be trained in discovering and identifying common faults by typical thermal patterns.</p>	
Content	
<ul style="list-style-type: none"> • Introduction. • Electrical applications (current, voltage, resistance, electrical systems, Ohm's law, some important properties of materials, typical faults, surveying methodology and criteria, safety, voltage limits). • Industrial applications (bearings, pumps, gears, belts, misalignment and couplings, gaskets, seals, rings, glands, steam traps, furnaces). • Building applications (definition of the building envelope, steady state thermal transfer in a building envelope, transient thermal transfer in a building envelope, applications). 	
Course information	
Available languages	English.
Target group	<ul style="list-style-type: none"> • Professional thermographers holding a Level 1 or a Level 2 certificate • with an interest in increasing their knowledge of different thermographic applications and their limitations or • with a special interest in condition monitoring of machines.
Typical student	<ul style="list-style-type: none"> • Knows how to operate an infrared camera. • Knows how to create reports. • Works in industry on, for example, maintenance and condition monitoring or is a consultant.
Prerequisites	<ul style="list-style-type: none"> • Valid Level 1 thermography certificate. • Infrared-related education and experience.
Course details	
Duration	3 days (24 hours).
Structure	The course is divided into the three parts: electrical applications, industrial applications, and building applications. Theory sessions and case studies including interactive discussions alternate.
Exam	A final exam (30 multiple-choice questions) will be taken on day 3 in the afternoon. The correct answers will be discussed afterwards by the instructor and the participants.



ITC Advanced General Thermography Course—attendance by 1 person (3 days)

P/N: ITC-ADV-3021

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Website

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Course details	
Course fee includes	<ul style="list-style-type: none">• Tuition by an ITC-licensed instructor.• Training materials in printed format.• Refreshments.• Diploma of attendance.• Attendance by 1 person.• May include more, such as lunch, depending on the location and the organizing body.

Course organization	
ITC	The Advanced General Thermography Course is offered worldwide by ITC as listed in "Courses offered by ITC partners" (T560393). Specific customer requests should be forwarded to the closest ITC subsidiary.
ITC trainers and licensed trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Advanced General Thermography Courses.

P/N: ITC-ADV-3029

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Website

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Customer support

<http://support.flir.com>



General description

This interdisciplinary course bridges the gap between infrared thermography, background science, and applications. Being an overview course, it deals with three main application areas of thermography: electrical, industrial, and buildings. For each application the participant will learn about the specific theory, typical faults, and how to detect faults with a thermography camera. The student will also learn about the basics of condition monitoring, and maintenance.

Examples and case studies from the real world illustrate the course content and are discussed with the participants. Participants will be trained in discovering and identifying common faults by typical thermal patterns.

Content

- Introduction.
- Electrical applications (current, voltage, resistance, electrical systems, Ohm's law, some important properties of materials, typical faults, surveying methodology and criteria, safety, voltage limits).
- Industrial applications (bearings, pumps, gears, belts, misalignment and couplings, gaskets, seals, rings, glands, steam traps, furnaces).
- Building applications (definition of the building envelope, steady state thermal transfer in a building envelope, transient thermal transfer in a building envelope, applications).

Course information

Available languages	English.
Target group	<ul style="list-style-type: none"> • Professional thermographers holding a Level 1 or a Level 2 certificate • with an interest in increasing their knowledge of different thermographic applications and their limitations or • with a special interest in condition monitoring of machines.
Typical student	<ul style="list-style-type: none"> • Knows how to operate an infrared camera. • Knows how to create reports. • Works in industry on, for example, maintenance and condition monitoring or is a consultant.
Prerequisites	<ul style="list-style-type: none"> • Valid Level 1 thermography certificate. • Infrared-related education and experience.

Course details

Duration	3 days (24 hours).
Structure	The course is divided into the three parts: electrical applications, industrial applications, and building applications. Theory sessions and case studies including interactive discussions alternate.
Exam	A final exam (30 multiple-choice questions) will be taken on day 3 in the afternoon. The correct answers will be discussed afterwards by the instructor and the participants.



ITC Advanced General Thermography Course—group of up to 10 persons (3 days)

P/N: ITC-ADV-3029

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Course details	
Course fee includes	<ul style="list-style-type: none">• Tuition by an ITC-licensed instructor.• Training materials in printed format.• Refreshments.• Diploma of attendance.• Attendance by a group of up to 10 persons.• May include more, such as lunch, depending on the location and the organizing body.

Course organization	
ITC	The Advanced General Thermography Course is offered worldwide by ITC as listed in "Courses offered by ITC partners" (T560393). Specific customer requests should be forwarded to the closest ITC subsidiary.
ITC trainers and licensed trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach Advanced General Thermography Courses.

P/N: ITC-ADV-3061

Revision

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

General description	
ITC Advanced Thermal Applications—attendance by 1 person (3 days)	
Course information	
Available languages	DACH only
Course details	
Duration	3 days

P/N: ITC-ADV-3069

Revision

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2017-08-15 14:19 UTC+1

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General description	
ITC Advanced Thermal Applications—group of up to 10 persons (3 days)	
Course information	
Available languages	DACH only
Course details	
Duration	3 days

P/N: ITC-CER-5105

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General description

This course prepares the student for qualification as a Category 1 certified thermographer. The participant will learn about the basics of infrared, how to operate an infrared camera under different conditions and for various purposes, how to appropriately judge the measurement situation in the field, and how to identify potential error sources. After the course, the participant will be able to undertake infrared inspections following written guidelines and to report the results of this inspection.

Note: This part number is reserved for adding additional students to a Category 1 on-site course.

Content

- Introduction to thermography.
- Understand your thermal camera.
- Basic physics of heat.
- Basic physics of infrared.
- Thermal pattern recognition and infrared applications.
- Infrared temperature measurement techniques.
- Thermography in condition-monitoring.
- Applications and inspections.
- Surveys and reporting.

Student presentation

- During the seminar, students will generate a small case study to be presented to the class, based on the laboratory exercises.

Laboratory sessions

- Camera handling.
- Level and span.
- Conduction pattern.
- Forced convection.
- Direct and indirect thermal measurement.
- Thermal capacity.
- Steady state and transient heat flow.
- Evaporation and condensation.
- Electrical application.
- Emissivity and reflected apparent temperature.
- Spatial resolution.
- Location and temperature measurement of a hot/cold spot.
- Image transfer to the computer.

Course information

Available languages

Chinese, Danish, Dutch, English, Finish, French, German, Greek, Hebrew, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (Brazilian), Romanian, Russian, Serbo-Croatian, Spanish, Swedish, Thai.



ITC Category 1 Thermography Course—additional student to an on-site class, 1 person

P/N: ITC-CER-5105

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Website

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Course information	
Target group	<ul style="list-style-type: none"> Practical users. Beginners in thermography with some experience of camera handling and limited infrared knowledge who want to take their first step to becoming a professional thermographer and to qualifying as a Category 1 certified thermographer.
Typical student	<ul style="list-style-type: none"> Persons with a professional technical background such as technicians, engineers, consultants, or researchers who work in maintenance, building inspection, mechanical, or electrical applications, production, or R&D. Persons who already have some basic experience of infrared thermography. Persons with knowledge of the basic functions of an infrared camera. Persons who want to become a certified thermographer to gain a competitive advantage or who need the certification because of legal reasons or company internal regulations.
Prerequisites	<ul style="list-style-type: none"> Familiar with the basic operation of an infrared camera. Has the recommended experience of thermography to the relevant standards.

Course details	
Duration	35–40 hours.
Structure	Theory and camera practice (hands on) on alternate days with additional laboratory sessions and software exercises on some days.
Exam	Written exam (closed book) including multiple-choice questions and practical image interpretation on the last day. The maximum duration is as defined by the relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> Tuition by an ITC-licensed instructor. Training materials in printed format. Refreshments. Diploma of attendance. Certificate of conformance with certification requirements (subject to passing the exam). Attendance by 1 person. May include more, such as lunch, depending on the location and the organizing body.
Note	Only for non-EURO, non-SEK, non NOK, non-£, non-CHF countries.

Course organization	
ITC	The ITC Category 1 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in "Courses offered by ITC partners" (T560393). Specific customer requests should be forwarded to the closest ITC subsidiary listed in the "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach the ITC Category 1 Thermography Course.

P/N: ITC-CER-5101

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Website

<http://www.flir.com>

Customer support

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General description	
This course prepares the student for qualification as a category 1 certified thermographer. The participant will learn about the basics of infrared, how to operate an infrared camera under different conditions and for various purposes, how to appropriately judge the measurement situation in the field, and how to identify potential error sources. After the course, the participant will be able to undertake infrared inspections following written guidelines and to report the results of this inspection.	
Content	
<ul style="list-style-type: none"> • Introduction to thermography. • Understand your thermal camera. • Basic physics of heat. • Basic physics of infrared. • Thermal pattern recognition and infrared applications. • Infrared temperature measurement techniques. • Thermography in condition-monitoring. • Applications and inspections. • Surveys and reporting. 	
Student presentation	
<ul style="list-style-type: none"> • During the seminar, students will generate a small case study to be presented to the class, based on the laboratory exercises. 	
Laboratory sessions	
<ul style="list-style-type: none"> • Camera handling. • Level and span. • Conduction pattern. • Forced convection. • Direct and indirect thermal measurement. • Thermal capacity. • Steady state and transient heat flow. • Evaporation and condensation. • Electrical application. • Emissivity and reflected apparent temperature. • Spatial resolution. • Location and temperature measurement of a hot/cold spot. • Image transfer to the computer. 	
Course information	
Available languages	Chinese, Danish, Dutch, English, Finnish, French, German, Greek, Hebrew, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (Brazilian), Romanian, Russian, Serbo-Croatian, Spanish, Swedish, Thai.
Target group	<ul style="list-style-type: none"> • Practical users. • Beginners in thermography with some experience of camera handling and limited infrared knowledge who want to take their first step to becoming a professional thermographer and to qualifying as a Category 1 certified thermographer.



Category 1 Thermography Course—attendance by 1 person

P/N: ITC-CER-5101

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Website

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Customer support

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Course information	
Typical student	<ul style="list-style-type: none"> Persons with a professional technical background such as technicians, engineers, consultants, or researchers who work in maintenance, building inspection, mechanical, or electrical applications, production, or R&D. Persons who already have some basic experience of infrared thermography. Persons with knowledge of the basic functions of an infrared camera. Persons who want to become a certified thermographer to gain a competitive advantage or who need the certification because of legal reasons or company internal regulations.
Prerequisites	<ul style="list-style-type: none"> Familiar with the basic operation of an infrared camera. Has the recommended experience of thermography to the relevant standards.

Course details	
Duration	35–40 hours.
Structure	Theory and camera practice (hands on) on alternate days with additional laboratory sessions and software exercises on some days.
Exam	Written exam (closed book) including multiple-choice questions and practical image interpretation on the last day. The maximum duration is as defined by the relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> Tuition by an ITC-licensed instructor. Training materials in printed format. Refreshments. Diploma of attendance. Certificate of conformance with certification requirements (subject to passing the exam). Attendance by 1 person. May include more, such as lunch, depending on the location and the organizing body.

Course organization	
ITC	The ITC Category 1 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in "Courses offered by ITC partners" (T560393). Specific customer requests should be forwarded to the closest ITC subsidiary listed in the "ITC Directory" (1560096).
ITC trainers and licensed trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach the ITC Category 1 Thermography Course.

P/N: ITC-CER-5109

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Website

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Customer support

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General description	
This course prepares the student for qualification as a category 1 certified thermographer. The participant will learn about the basics of infrared, how to operate an infrared camera under different conditions and for various purposes, how to appropriately judge the measurement situation in the field, and how to identify potential error sources. After the course, the participant will be able to undertake infrared inspections following written guidelines and to report the results of this inspection.	
Content	
<ul style="list-style-type: none"> • Introduction to thermography. • Understand your thermal camera. • Basic physics of heat. • Basic physics of infrared. • Thermal pattern recognition and infrared applications. • Infrared temperature measurement techniques. • Thermography in condition-monitoring. • Applications and inspections. • Surveys and reporting. 	
Student presentation	
<ul style="list-style-type: none"> • During the seminar, students will generate a small case study to be presented to the class, based on the laboratory exercises. 	
Laboratory sessions	
<ul style="list-style-type: none"> • Camera handling. • Level and span. • Conduction pattern. • Forced convection. • Direct and indirect thermal measurement. • Thermal capacity. • Steady state and transient heat flow. • Evaporation and condensation. • Electrical application. • Emissivity and reflected apparent temperature. • Spatial resolution. • Location and temperature measurement of a hot/cold spot. • Image transfer to the computer. 	
Course information	
Available languages	Chinese, Danish, Dutch, English, Finnish, French, German, Greek, Hebrew, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (Brazilian), Romanian, Russian, Serbo-Croatian, Spanish, Swedish, Thai.
Target group	<ul style="list-style-type: none"> • Practical users. • Beginners in thermography with some experience of camera handling and limited infrared knowledge who want to take their first step to becoming a professional thermographer and to qualifying as a Category 1 certified thermographer.



ITC Category 1 Thermography Course—group of up to 10 persons

P/N: ITC-CER-5109

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Website

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Customer support

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Course information	
Typical student	<ul style="list-style-type: none"> Persons with a professional technical background such as technicians, engineers, consultants, or researchers who work in maintenance, building inspection, mechanical, or electrical applications, production, or R&D. Persons who already have some basic experience of infrared thermography. Persons with knowledge of the basic functions of an infrared camera. Persons who want to become a certified thermographer to gain a competitive advantage or who need the certification because of legal reasons or company internal regulations.
Prerequisites	<ul style="list-style-type: none"> Familiar with the basic operation of an infrared camera. Has the recommended experience of thermography to the relevant standards.

Course details	
Duration	35–40 hours.
Structure	Theory and camera practice (hands on) on alternate days with additional laboratory sessions and software exercises on some days.
Exam	Written exam (closed book) including multiple-choice questions and practical image interpretation on the last day. The maximum duration is as defined by the relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> Tuition by an ITC-licensed instructor. Training materials in printed format. Refreshments. Diploma of attendance. Certificate of conformance with certification requirements (subject to passing the exam). Attendance by a group of up to 10 persons. May include more, such as lunch, depending on the location and the organizing body.

Course organization	
ITC	The ITC Category 1 Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in "Courses offered by ITC partners" (T560393). Specific customer requests should be forwarded to the closest ITC subsidiary listed in the "ITC Directory" (1560096).
ITC Trainers and Licensed Trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach the ITC Category 1 Thermography Course.

ITC Level 2 (Category 2) Thermography Course—additional student to an on-site course, 1 person

P/N: ITC-CER-5205

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Website

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Customer support

<http://support.flir.com>



General description	
This course prepares the student for qualification as a category 2 certified thermographer. The participant will learn about topics in infrared thermography to increase the knowledge about infrared physics, heat science, infrared measurement equipment and its application. As a Category 2 thermographer the participant shall provide guidance to category 1 personnel in the areas of equipment selection, techniques, limitations, data analysis, corrective actions and reporting.	
Note: This part number is reserved for adding additional students to a Category 2 on-site course.	
Content	
<ul style="list-style-type: none"> • Thermal science. • Heat transfer. • Temperature measurement. • Infrared science. • Infrared equipment and applications. 	
Student presentation	
<ul style="list-style-type: none"> • During the seminar, students will present a prepared case study to the class. The maximum duration (excluding discussion) will be 7 minutes, with a maximum of 7 slides. 	
Laboratory sessions	
<ul style="list-style-type: none"> • Newton's law (M). • Advanced emissivity measurement (M). • Variation of emissivity with angle (M). • Transient thermal transfer. • Indirect power measurement (M). • Infrared window transmission (M). • Slit response function. • Hole response function (M). • Parallel circuits. <p>Note: Laboratory sessions denoted by "M" are mandatory.</p>	
Course information	
Available languages	Dutch, English, German, French, Italian, Portuguese (Brazilian), Spanish, Swedish.
Target group	<ul style="list-style-type: none"> • Professional users. • This course is designed for thermographers holding a Category 1 certificate who want to increase their knowledge of infrared thermography and who want to qualify as a Category 2 certified thermographer.



ITC Level 2 (Category 2) Thermography Course—additional student to an on-site course, 1 person

P/N: ITC-CER-5205

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Course information	
Typical student	<ul style="list-style-type: none"> Persons with a professional technical background such as technicians, engineers, consultants, or researchers who work in maintenance, building inspection, mechanical, or electrical applications, production, or R&D. Persons with several months of professional experience of thermography. Persons with experience of infrared camera operation and reporting. Persons holding a Category 1 certificate. Persons who need the Category 2 Certification for guidance and supervision of other thermographers or are interested in a deeper understanding of thermography.
Prerequisites	<ul style="list-style-type: none"> Valid Category 1 thermography certificate. Recommended experience within thermography according to the relevant standards.

Course details	
Duration	40 hours.
Structure	Theory, camera practice (hands on), and prepared case studies on alternate days.
Exam	Written exam (closed book) including multiple-choice questions and practical image interpretation on the last day. The maximum duration is as defined by the relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> Tuition by an ITC-licensed instructor. Training materials in printed format. Refreshments. Diploma of attendance. Certificate of conformance with certification requirements (subject to passing the exam). Attendance by 1 person. May include more, such as lunch, depending on the location and the organizing body.
Note	Only for non-EURO, non-SEK, non NOK, non-£, non-CHF countries.

Course organization	
ITC	The ITC Level 2 (Category 2) Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in "Courses offered by ITC partners" (T560393). Specific customer requests should be forwarded to the closest ITC subsidiary listed in the "ITC Directory" (1560096).
ITC trainers and licensed trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach the ITC Level 2 (Category 2) Thermography Course.

P/N: ITC-CER-5201

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Website

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Customer support

<http://support.flir.com>



General description	
<p>This course prepares the student for qualification as a category 2 certified thermographer. The participant will learn about topics in infrared thermography to increase their knowledge of infrared physics, heat science, and infrared measurement equipment and its application. As a Category 2 thermographer the participant can provide guidance to category 1 personnel in the areas of equipment selection, techniques, limitations, data analysis, corrective actions, and reporting.</p>	
Content	
<ul style="list-style-type: none"> • Thermal science. • Heat transfer. • Temperature measurement. • Infrared science. • Infrared equipment and applications. 	
Student presentation	
<ul style="list-style-type: none"> • During the seminar, students will present a prepared case study to the class. The maximum duration (excluding discussion) will be 7 minutes, with a maximum of 7 slides. 	
Laboratory sessions	
<ul style="list-style-type: none"> • Newton's law (M). • Advanced emissivity measurement (M). • Variation of emissivity with angle (M). • Transient thermal transfer. • Indirect power measurement (M). • Infrared window transmission (M). • Slit response function. • Hole response function (M). • Parallel circuits. <p>Note: Laboratory sessions denoted by "M" are mandatory.</p>	
Course information	
Available languages	Dutch, English, German, French, Italian, Portuguese (Brazilian), Spanish, Swedish.
Target group	<ul style="list-style-type: none"> • Professional users. • This course is designed for thermographers holding a Category 1 certificate who want to increase their knowledge of infrared thermography and who want to qualify as a Category 2 certified thermographer.



ITC Level 2 (Category 2) Thermography Course—attendance by 1 person

P/N: ITC-CER-5201

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Website

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Course information	
Typical student	<ul style="list-style-type: none"> Persons with a professional technical background such as technicians, engineers, consultants, or researchers who work in maintenance, building inspection, mechanical, or electrical applications, production, or R&D. Persons with several months of professional experience of thermography. Persons with experience of infrared camera operation and reporting. Persons holding a Category 1 certificate. Persons who need the Category 2 Certification for guidance and supervision of other thermographers or are interested in a deeper understanding of thermography.
Prerequisites	<ul style="list-style-type: none"> Valid Category 1 thermography certificate. Recommended experience within thermography according to the relevant standards.

Course details	
Duration	40 hours.
Structure	Theory, camera practice (hands on), and prepared case studies on alternate days.
Exam	Written exam (closed book) including multiple-choice questions and practical image interpretation on the last day. The maximum duration is as defined by the relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> Tuition by an ITC-licensed instructor. Training materials in printed format. Refreshments. Diploma of attendance. Certificate of conformance with certification requirements (subject to passing the exam). Attendance by 1 person. May include more, such as lunch, depending on the location and the organizing body.

Course organization	
ITC	The ITC Level 2 (Category 2) Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in "Courses offered by ITC partners" (T560393). Specific customer requests should be forwarded to the closest ITC subsidiary listed in the "ITC Directory" (1560096).
ITC trainers and licensed trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach the ITC Level 2 (Category 2) Thermography Course.

P/N: ITC-CER-5209

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Website

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Customer support

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General description	
<p>This course prepares the student for qualification as a category 2 certified thermographer. The participant will learn about topics in infrared thermography to increase their knowledge of infrared physics, heat science, and infrared measurement equipment and its application. As a Category 2 thermographer the participant can provide guidance to category 1 personnel in the areas of equipment selection, techniques, limitations, data analysis, corrective actions, and reporting.</p>	
Content	
<ul style="list-style-type: none"> • Thermal science. • Heat transfer. • Temperature measurement. • Infrared science. • Infrared equipment and applications. 	
Student presentation	
<ul style="list-style-type: none"> • During the seminar, students will present a prepared case study to the class. The maximum duration (excluding discussion) will be 7 minutes, with a maximum of 7 slides. 	
Laboratory sessions	
<ul style="list-style-type: none"> • Newton's law (M). • Advanced emissivity measurement (M). • Variation of emissivity with angle (M). • Transient thermal transfer. • Indirect power measurement (M). • Infrared window transmission (M). • Slit response function. • Hole response function (M). • Parallel circuits. <p>Note: Laboratory sessions denoted by "M" are mandatory.</p>	
Course information	
Available languages	Dutch, English, German, French, Italian, Portuguese (Brazilian), Spanish, Swedish.
Target group	<ul style="list-style-type: none"> • Professional users. • This course is designed for thermographers holding a Category 1 certificate who want to increase their knowledge of infrared thermography and who want to qualify as a Category 2 certified thermographer.



ITC Level 2 (Category 2) Thermography Course—group of up to 10 persons

P/N: ITC-CER-5209

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Course information	
Typical student	<ul style="list-style-type: none"> Persons with a professional technical background such as technicians, engineers, consultants, or researchers who work in maintenance, building inspection, mechanical, or electrical applications, production, or R&D. Persons with several months of professional experience of thermography. Persons with experience of infrared camera operation and reporting. Persons holding a Category 1 certificate. Persons who need the Category 2 Certification for guidance and supervision of other thermographers or are interested in a deeper understanding of thermography.
Prerequisites	<ul style="list-style-type: none"> Valid Category 1 thermography certificate. Recommended experience within thermography according to the relevant standards.

Course details	
Duration	40 hours.
Structure	Theory, camera practice (hands on), and prepared case studies on alternate days.
Exam	Written exam (closed book) including multiple-choice questions and practical image interpretation on the last day. The maximum duration is as defined by the relevant certification standards.
Course fee includes	<ul style="list-style-type: none"> Tuition by an ITC-licensed instructor. Training materials in printed format. Refreshments. Diploma of attendance. Certificate of conformance with certification requirements (subject to passing the exam). Attendance by a group of up to 10 persons May include more, such as lunch, depending on the location and the organizing body.

Course organization	
ITC	The ITC Level 2 (Category 2) Thermography Course is offered worldwide by ITC subsidiaries and ITC partners as listed in "Courses offered by ITC partners" (T560393). Specific customer requests should be forwarded to the closest ITC subsidiary listed in the "ITC Directory" (1560096).
ITC trainers and licensed trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach the ITC Level 2 (Category 2) Thermography Course.

P/N: ITC-CON-1001

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description
ITC conference fee

P/N: ITC-EXP-1041

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General description	
This is a special course on the specifications of equipment used in particular applications (e.g., triggering or high speed). It addresses predominantly the needs of high-end infrared camera users in scientific or industrial fields.	
Content	
<ul style="list-style-type: none"> Customized. 	
Laboratory sessions	
<ul style="list-style-type: none"> Customized. 	
Course information	
Available languages	English, French. Other languages on request.
Target group	<ul style="list-style-type: none"> Highly specialized users with advanced and scientific applications as well as persons interested in these applications and related infrared equipment.
Typical student	<ul style="list-style-type: none"> Researchers. Scientists. University students.
Prerequisites	<ul style="list-style-type: none"> None.
Recommendations	<ul style="list-style-type: none"> Basic knowledge of thermography and related areas. Experience in measurement techniques and general software skills.
Course details	
Duration	Typically 1 day
Structure	Theory and hands-on sessions, depending on the topics.
Exam	None.
Course fee includes	<ul style="list-style-type: none"> Tuition by an ITC-licensed instructor. Training materials. Diploma of attendance. Attendance by 1 person.
Note	This course is typically organized at the customer's site. The course fee does not include the cost of the instructor's travel or lodging. The customer is responsible for providing a suitable classroom and preferably also refreshments/lunch.



ITC customized workshop—per person (per day)

P/N: ITC-EXP-1041

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Course organization	
ITC	ITC customized workshops are offered worldwide by ITC and its partners. Specific customer requests should be forwarded to the closest ITC, ITC partner, or FLIR sales representative.
ITC trainers and licensed trainers	ITC customized workshops are taught by ITC qualified specialists having relevant expertise in the workshop's subject and related fields of application.

P/N: ITC-EXP-0511

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
ITC Getting Started with Thermography—attendance by 1 person.	
Course information	
Available languages	German, French, Italian, Dutch, Swedish.
Course details	
Duration	4 hours.

P/N: ITC-EXP-0521

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
ITC Getting Started with Thermography (evening or weekend)—attendance by 1 person.	
Course information	
Available languages	German, French, Italian, Dutch, Swedish.
Course details	
Duration	4 hours.

P/N: ITC-EXP-1050

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Website

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Customer support

<http://support.flir.com>



General description	
<p>Consultancy can be described as any action or arrangement that is not strictly a training course. Most likely, a thermal camera will be involved. It can be, but is not restricted to:</p> <ul style="list-style-type: none"> • Pre-sales equipment or software demonstration. • Equipment and software demonstration and explanation. • Advanced technical support. • Application support. • Comparative study involving a camera, either alone or in conjunction with other instruments. • General measurements in a difficult or unusual situation. 	
Content	
<ul style="list-style-type: none"> • Customized. 	
Laboratory sessions	
<ul style="list-style-type: none"> • Customized. 	
Course information	
Available languages	English, French. Other languages on request.
Target group	<ul style="list-style-type: none"> • Advanced users who wish to receive in-depth guidance to complex problems related to infrared equipment, applications, and measurement.
Typical student	<ul style="list-style-type: none"> • Industry technical personnel. • Researchers. • Scientists. • University students.
Prerequisites	<ul style="list-style-type: none"> • None.
Recommendations	<ul style="list-style-type: none"> • Basic knowledge of thermography and related parameters. • Experience in measurement techniques and general software skills.
Course details	
Duration	Typically 1 day.
Structure	Theory and hands-on sessions, depending on the topics.
Exam	None.
Course fee includes	<ul style="list-style-type: none"> • Consultancy by a qualified ITC specialist. • Training and/or reference material.



ITC infrared application and system consultancy (per day)

P/N: ITC-EXP-1050

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>**Course details**

Note

Consultancy is typically carried out at the customer's site. The fee does not include the cost of the instructor's travel or lodging. The customer is responsible for providing access to the equipment or objects to be analyzed or measured, a suitable meeting room, and, ideally, also refreshments/lunch.

Course organization

ITC

ITC consultancy is offered by ITC in EMEA. Specific customer requests should be forwarded to the closest ITC, ITC partner, or FLIR sales representative.

ITC trainers and licensed trainers

ITC consultancy is delivered by ITC qualified specialists having relevant expertise in infrared measurement and related fields of application.

P/N: ITC-EXP-1021

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
<p>On-site training that can be customized to your needs. The participants will learn about infrared thermography, inspections, measurements, applications, and reporting corresponding to the level needed for performing measurements and inspection in their working environment. The trainer will give useful advice on how to best implement infrared thermography in your business.</p>	
<p>Note: This part number is reserved for adding additional students to an on-site course.</p>	
Content	
<ul style="list-style-type: none"> An on-site course can be any course, from a 1-day introduction to general thermography, to a customized application course, to a complete certification course. 	
Laboratory sessions	
<ul style="list-style-type: none"> Classroom laboratory sessions. On-site field training as agreed with the customer. 	
Course information	
Available languages	English, Dutch, German, French, Italian, Spanish, Swedish. Other languages on request.
Target group	<ul style="list-style-type: none"> Employees of a company or particular departments who would like to minimize travel costs and receive training directly on their daily working site.
Prerequisites	<ul style="list-style-type: none"> Refer to the prerequisites applicable to an equivalent in-house course.
Recommendations	<ul style="list-style-type: none"> Refer to the recommendations applicable to an equivalent in-house course.
Course details	
Duration	Customized or in accordance with an equivalent in-house course.
Structure	Theory, camera handling, demonstrations, laboratory practice, and field training.
Exam	As applicable to an equivalent in-house course.
Course fee includes	<ul style="list-style-type: none"> Tuition by an ITC-licensed instructor. Training materials in printed format. Diploma of attendance. Attendance by 1 person.



ITC in-house training—additional attendance, 1 person (per day)

P/N: ITC-EXP-1021

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Course organization	
ITC	ITC in-house courses are offered worldwide by ITC and its partners as listed. Specific customer requests should be forwarded to the closest ITC, ITC partner, or FLIR sales representative.
ITC trainers and licensed trainers	ITC in-house courses are taught by ITC qualified instructors with experience in the relevant fields of application.

P/N: ITC-EXP-1029

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
On-site training that can be customized to your needs. The participants will learn about infrared thermography, inspections, measurements, applications, and reporting corresponding to the level needed for performing measurements and inspection in their working environment. The trainer will give useful advice on how to best implement infrared thermography in your business.	
Content	
<ul style="list-style-type: none"> An on-site course can be any course, from a 1-day introduction to general thermography, to a customized application course, to a complete certification course. 	
Laboratory sessions	
<ul style="list-style-type: none"> Classroom laboratory sessions. On-site field training as agreed with the customer. 	
Course information	
Available languages	English, Dutch, German, French, Italian, Spanish, Swedish. Other languages on request.
Target group	<ul style="list-style-type: none"> Employees of a company or particular departments who would like to minimize travel costs and receive training directly on their daily working site.
Prerequisites	<ul style="list-style-type: none"> Refer to the prerequisites applicable to an equivalent in-house course.
Recommendations	<ul style="list-style-type: none"> Refer to the recommendations applicable to an equivalent in-house course.
Course details	
Duration	Customized or in accordance with an equivalent in-house course.
Structure	Theory, camera handling, demonstrations, laboratory practice, and field training.
Exam	As applicable to an equivalent in-house course.
Course fee includes	<ul style="list-style-type: none"> Tuition by an ITC-licensed instructor. Training materials in printed format. Diploma of attendance. Attendance by a group of up to 10 persons.
Note	The course fee does not include the cost of the instructor's travel or lodging. When organized at the customer's site, the customer is responsible for providing a suitable classroom and ideally also refreshments/lunch.



ITC in-house training—group of up to 10 persons (per day)

P/N: ITC-EXP-1029

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Course organization	
ITC	ITC in-house courses are offered worldwide by ITC and its partners as listed. Specific customer requests should be forwarded to the closest ITC, ITC partner, or FLIR sales representative.
ITC trainers and licensed trainers	ITC in-house courses are taught by ITC qualified instructors with experience in the relevant fields of application.

P/N: ITC-EXP-2011

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Website

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Customer support

<http://support.flir.com>



General description	
<p>This course gives a general introduction to infrared thermography and an overview on its specific use for the inspection of buildings. It aims to give you suggestions on what you can do with your camera.</p> <p>During the first day, you learn the basics of thermography and how to use your camera the best way. The second day you will start with a brief summary of thermal transfer before you learn about the building envelope, important physical parameters, and typical faults. Emphasis is put on case studies, selected from the field.</p>	
Content	
<ul style="list-style-type: none"> • Basics of thermography. • Basics of emissivity and reflected apparent temperature. • Infrared camera handling. • Basics of heat transfer. • The building envelope. • Important physical parameters. • Major anomalies. • Thermal patterns. • Application guidelines. • Data analysis and reports. 	
Laboratory sessions	
<ul style="list-style-type: none"> • Emissivity and the reflected apparent temperature. • Influence of the angle of reflection on the measurement. • Influence of the object size on the measurement. • Building application laboratory sessions. 	
Course information	
Available languages	English, French, German, Swedish.
Target group	<ul style="list-style-type: none"> • Beginners and anyone interested in infrared thermography and building applications.
Typical student	<ul style="list-style-type: none"> • Persons from the building sector. • Someone looking to purchase a camera. • Someone who just purchased a camera. • Students and pupils with thermography and building-application-related projects.
Prerequisites	<ul style="list-style-type: none"> • None.
Recommendations	<ul style="list-style-type: none"> • Interest in the technology and its applications.
Course details	
Duration	2 days.
Structure	Theory, camera handling, demonstrations, and practical laboratory sessions.
Exam	None.



ITC Introduction to Building Thermography—attendance by 1 person (2 days)

P/N: ITC-EXP-2011

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Course details	
Course fee includes	<ul style="list-style-type: none">• Tuition by an ITC-licensed instructor.• Training materials in printed format.• Diploma of attendance.• Attendance by 1 person.• May include more, such as refreshments or lunch, depending on the location and the organizing body.

Course organization	
ITC	The ITC Introduction to Building Thermography course is offered worldwide by ITC and partners. Specific customer requests should be forwarded to the closest ITC, ITC partner, or FLIR sales representative.
ITC trainers and licensed trainers	The ITC Introduction to Building Thermography course is taught by qualified ITC instructors with particular experience in the field of building applications.

P/N: ITC-EXP-2019

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Website

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Customer support

<http://support.flir.com>



General description	
<p>This course gives a general introduction to infrared thermography and an overview on its specific use for the inspection of buildings. It aims to give you suggestions on what you can do with your camera.</p> <p>During the first day, you learn the basics of thermography and how to use your camera the best way. The second day you will start with a brief summary of thermal transfer before you learn about the building envelope, important physical parameters, and typical faults. Emphasis is put on case studies, selected from the field.</p>	
Content	
<ul style="list-style-type: none"> • Basics of thermography. • Basics of emissivity and reflected apparent temperature. • Infrared camera handling. • Basics of heat transfer. • The building envelope. • Important physical parameters. • Major anomalies. • Thermal patterns. • Application guidelines. • Data analysis and reports. 	
Laboratory sessions	
<ul style="list-style-type: none"> • Emissivity and the reflected apparent temperature. • Influence of the angle of reflection on the measurement. • Influence of the object size on the measurement. • Building application laboratory sessions. 	
Course information	
Available languages	English, French, German, Swedish.
Target group	<ul style="list-style-type: none"> • Beginners and anyone interested in infrared thermography and building applications.
Typical student	<ul style="list-style-type: none"> • Persons from the building sector. • Someone looking to purchase a camera. • Someone who just purchased a camera. • Students and pupils with thermography and building-application-related projects.
Prerequisites	<ul style="list-style-type: none"> • None.
Recommendations	<ul style="list-style-type: none"> • Interest in the technology and its applications.
Course details	
Duration	2 days.
Structure	Theory, camera handling, demonstrations, and practical laboratory sessions.
Exam	None.



ITC Introduction to Building Thermography—group of up to 10 persons (2 days)

P/N: ITC-EXP-2019

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Course details	
Course fee includes	<ul style="list-style-type: none">• Tuition by an ITC-licensed instructor.• Training material in printed format.• Diploma of attendance.• Attendance by a group of up to 10 persons.• May include more, such as refreshments, lunch, the instructor's travel expenses, etc. depending on the location and the organizing body.

Course organization	
ITC	The ITC Introduction to Building Thermography course is offered worldwide by ITC and partners. Specific customer requests should be forwarded to the closest ITC, ITC partner, or FLIR sales representative.
ITC trainers and licensed trainers	The ITC Introduction to Building Thermography course is taught by qualified ITC instructors with particular experience in the field of building applications.

P/N: ITC-EXP-2041

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Website

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Customer support

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General description

This course gives a general introduction to infrared thermography and an overview of its specific use for inspections of electrical systems. It aims to give suggestions on what you can do with your camera. During the first day, you learn the basics of thermography and how to use your camera the best way. The second day you will start with a brief summary of thermal transfer before you learn about electrical systems and components, material properties, and typical problems and faults. Emphasis is placed on case studies, selected from the field.

Content

- Basics of thermography.
- Basics of emissivity and reflected apparent temperature.
- Infrared camera handling.
- Basics of heat transfer.
- Electrical systems.
- Important properties of material.
- Most common problems.
- Case studies.
- Common mistakes.
- Application guidelines.
- Data analysis and reports.

Laboratory sessions

- Emissivity and the reflected apparent temperature.
- Influence of the angle of reflection on the measurement.
- Influence of the object size on the measurement.
- Electrical application laboratory sessions.

Course information

Available languages	English, French, German, Swedish.
Target group	<ul style="list-style-type: none"> • Beginners and anyone interested in infrared thermography and electrical applications.
Typical student	<ul style="list-style-type: none"> • Persons working in the maintenance or installation of electrical systems. • Someone looking to purchase a camera. • Someone who just purchased a camera. • Students and pupils with thermography and building-application-related projects.
Prerequisites	<ul style="list-style-type: none"> • None.
Recommendations	<ul style="list-style-type: none"> • Interest in the technology and its applications.

Course details

Duration	2 days.
Structure	Theory, camera handling, demonstrations, and practical laboratory sessions.
Exam	None.



ITC Introduction Electrical Thermography—attendance by 1 person (2 days)

P/N: ITC-EXP-2041

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Course details	
Course fee includes	<ul style="list-style-type: none">• Tuition by an ITC-licensed instructor.• Training materials in printed format.• Refreshments.• Diploma of attendance.• Attendance by 1 person.• May include more, such as lunch, depending on the location and the organizing body.

Course organization	
ITC	The ITC Introduction to Electrical Thermography course is offered worldwide by ITC and partners. Specific customer requests should be forwarded to the closest ITC, ITC partner, or FLIR sales representative.
ITC trainers and licensed trainers	The ITC Introduction to Electrical Thermography course is taught by qualified ITC instructors with particular experience in the field of electrical installations.

ITC Introduction to Electrical Thermography—group of up to 10 persons (2 days)

P/N: ITC-EXP-2049

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Website

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Customer support

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General description	
<p>This course gives a general introduction to infrared thermography and an overview on its specific use for inspections of electrical systems. It aims to give you suggestions on what you can do with your camera. During the first day, you learn the basics of thermography and how to use your camera the best way. The second day you will start with a brief summary of thermal transfer before you learn about electrical systems and components, material properties, and typical problems and faults. Emphasis is placed on case studies, selected from the field.</p>	
Content	
<ul style="list-style-type: none"> • Basics of thermography. • Basics of emissivity and reflected apparent temperature. • Infrared camera handling. • Basics of heat transfer. • Electrical systems. • Important properties of material. • Most common problems. • Case studies. • Common mistakes. • Application guidelines. • Data analysis and reports. 	
Labs	
<ul style="list-style-type: none"> • Emissivity and the reflected apparent temperature. • Influence of the angle of reflection on the measurement. • Influence of the object size on the measurement. • Electrical application laboratory sessions. 	
Course information	
Available languages	English, French, German, Swedish.
Target group	<ul style="list-style-type: none"> • Beginners and anyone interested in infrared thermography and electrical applications.
Typical student	<ul style="list-style-type: none"> • Persons working in the maintenance or installation of electrical systems. • Someone looking to purchase a camera. • Someone who just purchased a camera. • Students and pupils with thermography and building-application-related projects.
Prerequisites	<ul style="list-style-type: none"> • None.
Recommendations	<ul style="list-style-type: none"> • Interest in the technology and its applications.
Course details	
Duration	2 days.
Structure	Theory, camera handling, demonstrations, and practical laboratory sessions.
Exam	None.



ITC Introduction to Electrical Thermography—group of up to 10 persons (2 days)

P/N: ITC-EXP-2049

Revision

44105

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Course details	
Course fee includes	<ul style="list-style-type: none">• Tuition by an ITC-licensed instructor.• Training materials in printed format.• Diploma of attendance.• Attendance by a group of up to 10 persons.• May include more, such as refreshments, lunch, the instructor's travel expenses, etc., depending on the location and the organizing body.

Course organization	
ITC	The ITC Introduction to Electrical Thermography course is offered worldwide by ITC and partners. Specific customer requests should be forwarded to the closest ITC, ITC partner, or FLIR sales representative.
ITC trainers and licensed trainers	The ITC Introduction to Electrical Thermography course is taught by qualified ITC instructors with particular experience in the field of electrical installations.

P/N: ITC-EXP-2061

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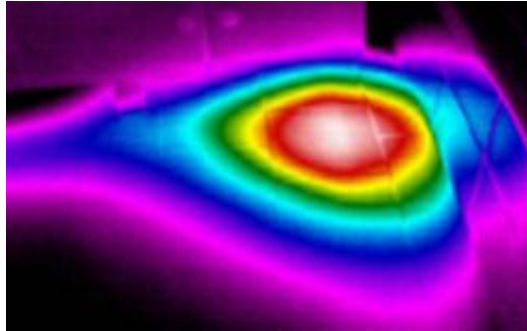
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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
<p>This course gives a general introduction to infrared thermography and an overview on its specific use for inspections of heating and HVAC systems, and related installations. It aims at giving you suggestions on what you can do with your camera. During the first day, you learn the basics of thermography, and how to use your camera the best way. The second day you will get introduced to various heating systems before you learn about typical faults and how thermography helps you to locate and analyze these. Emphasis is placed on case studies, selected from the field.</p>	
Content	
<ul style="list-style-type: none"> • Basics of thermography. • Basics of emissivity and reflected apparent temperature. • Infrared camera handling. • Heating systems. • Pipe tracing and localization of water circuits. • Water leaks. • Moisture and humidity. • Water radiators. • Tanks, manifolds, and plenums. • HVAC systems. • Industrial heat exchangers. • Photovoltaic panel inspection. • Data analysis and reports. 	
Laboratory sessions	
<ul style="list-style-type: none"> • Emissivity and reflected apparent temperature. • Influence of the angle on the measurement. • Influence of the object size on the measurement. • Laboratory sessions on applications. 	
Course information	
Available languages	English, French, German, Italian, Spanish, Swedish.
Target group	<ul style="list-style-type: none"> • Beginners and anyone interested in thermography, plumbing, and HVAC applications.
Typical student	<ul style="list-style-type: none"> • Plumbers or persons working with plumbing and/or HVAC systems. • Facility managers. • Anyone looking to purchase a camera. • Anyone who has just purchased a camera.
Prerequisites	<ul style="list-style-type: none"> • None.
Recommendations	<ul style="list-style-type: none"> • Interest in the technology and its applications.
Course details	
Duration	2 days.
Structure	Theory, camera handling, demonstrations, and practical laboratory sessions.
Exam	None.



ITC Introduction to HVAC and Plumbing Inspections—attendance by 1 person (2 days)

P/N: ITC-EXP-2061

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Course details	
Course fee includes	<ul style="list-style-type: none">• Tuition by an ITC-licensed instructor.• Training materials in printed format.• Refreshments.• Diploma of attendance.• Attendance by 1 person.• May include more, such as lunch, depending on the location and the organizing body.

Course organization	
ITC	The ITC Introduction to HVAC and Plumbing Inspections course is offered in EMEA by ITC and partners. Specific customer requests should be forwarded to the closest ITC or ITC partner, or FLIR sales representative.
ITC trainers and licensed trainers	The ITC Introduction to HVAC and Plumbing Inspections course is taught by qualified ITC instructors with particular experience in the field of electrical installations.

P/N: ITC-EXP-2069

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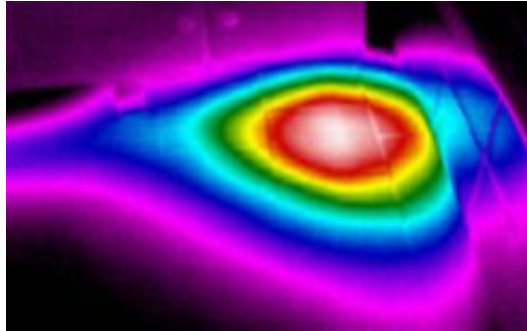
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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description

This course gives a general introduction to infrared thermography and an overview on its specific use for inspections of heating and HVAC systems, and related installations. It aims at giving you suggestions on what you can do with your camera. During the first day, you learn the basics of thermography, and how to use your camera the best way. The second day you will get introduced to various heating systems before you learn about typical faults and how thermography helps you to locate and analyze these. Emphasis is placed on case studies, selected from the field.

Content

- Basics of thermography.
- Basics of emissivity and reflected apparent temperature.
- Infrared camera handling.
- Heating systems.
- Pipe tracing and localization of water circuits.
- Water leaks.
- Moisture and humidity.
- Water radiators.
- Tanks, manifolds, and plenums.
- HVAC systems.
- Industrial heat exchangers.
- Photovoltaic panel inspection.
- Data analysis and reports.

Labs

- Emissivity and reflected apparent temperature.
- Influence of the angle on the measurement.
- Influence of the object size on the measurement.
- Laboratory sessions on applications.

Course information

Available languages	English, French, German, Italian, Spanish, Swedish.
Target group	<ul style="list-style-type: none"> • Beginners and anyone interested in thermography, plumbing, and HVAC applications.
Typical student	<ul style="list-style-type: none"> • Plumbers or persons working with plumbing and/or HVAC systems. • Facility managers. • Anyone looking to purchase a camera. • Anyone who has just purchased a camera.
Prerequisites	<ul style="list-style-type: none"> • None.
Recommendations	<ul style="list-style-type: none"> • Interest in the technology and its applications.

Course details

Duration	2 days.
Structure	Theory, camera handling, demonstrations, and practical laboratory sessions.
Exam	None.



ITC Introduction to HVAC and Plumbing Inspections—group of up to 10 persons (2 days)

P/N: ITC-EXP-2069

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Course details	
Course fee includes	<ul style="list-style-type: none">• Tuition by an ITC-licensed instructor.• Training materials in printed format.• Diploma of attendance.• Attendance by a group of up to 10 persons.• May include more, such as lunch, depending on the location and the organizing body.
Note	Course fee does not include the cost of the instructor's travel or lodging.

Course organization	
ITC	The ITC Introduction to HVAC and Plumbing Inspections course is offered in EMEA by ITC and its partners. Specific customer requests should be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC trainers and licensed trainers	The ITC Introduction to HVAC and Plumbing Inspections course is taught by qualified ITC instructors with particular experience in the field of electrical installations.

P/N: ITC-PRA-2011

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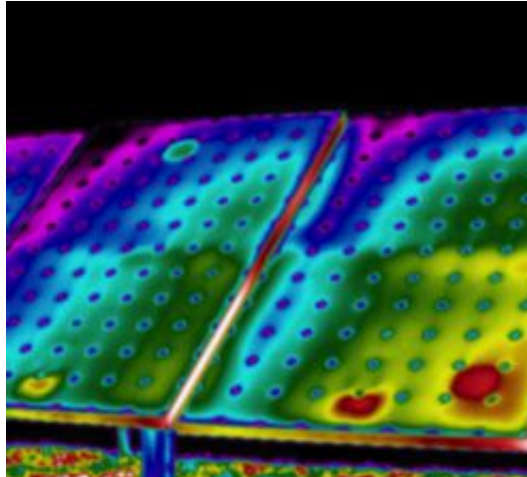
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Website

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Customer support

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General description

This course gives a general introduction to infrared thermography and an overview on its specific use for inspections of photovoltaic solar systems. During the first day, you learn about the basics of thermography, how a thermal camera works, and how to use it correctly. The second day starts with the basics of photovoltaic solar systems and solar panel installations. You learn about infrared measurements that are critical for solar panel inspections with a thermal camera, how to interpret the displayed thermal images, and how they are associated with typical problems and faults. Emphasis is placed on case studies, selected from the field, as well as on practical exercises.

Content

- Basics of thermography (radiation, spectral waveband, influences of the atmosphere).
- Infrared camera: principles, design and operation (the focal plane array, measurement ranges, thermal tuning: level and span, color palettes).
- Infrared measurement technique: measurement parameters (emissivity, radiation from the environment, distance, relative humidity, atmospheric temperature).
- Infrared camera figures of merit: resolution limits (thermal, spatial, time related).
- Practical exercises.
- Basics of photovoltaic solar systems (terminology, design, principle of operation, module types).
- Solar panel installation: connection types (string, bypass diodes, shadowing).
- Infrared measurements (spectral bands, inspection conditions, spatial resolution, camera position and angle).
- Typical thermal readouts (examples, sources, interpretation—defect/no defect, practical exercises).

Course information

Available languages	English, French, German, Swedish, Italian, Dutch, Spanish.
Target group	<ul style="list-style-type: none"> • Anyone, including beginners, interested in the use of infrared thermography for the inspection of photovoltaic solar systems.
Typical student	<ul style="list-style-type: none"> • Persons working in the maintenance or installation of solar panels. • Thermographers familiar with electrical inspections and interested in solar panel inspections.
Prerequisites	<ul style="list-style-type: none"> • None.
Recommendations	<ul style="list-style-type: none"> • Basic knowledge of electrical installations or another technical field.

Course details

Duration	2 days.
Structure	Theory, camera handling, demonstrations, and practical laboratory sessions.
Exam	None.



ITC Introduction to Solar Panel Inspection—attendance by 1 person (2 days)

P/N: ITC-PRA-2011

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>**Course details**

Course fee includes

- Tuition by an ITC-licensed instructor.
- Training materials in printed format.
- Refreshments.
- Diploma of attendance.
- Attendance by 1 person.
- May include more, such as lunch, depending on the location and the organizing body.

Course organization

ITC

The ITC Introduction to Solar Panel Inspection course is offered worldwide by ITC and its partners. Specific customer requests should be forwarded to the closest ITC, ITC partner or FLIR sales representative.

ITC trainers and licensed trainers

The ITC Introduction to Solar Panel Inspection course is taught by qualified ITC instructors with particular experience of solar panel installations.

P/N: ITC-PRA-2019

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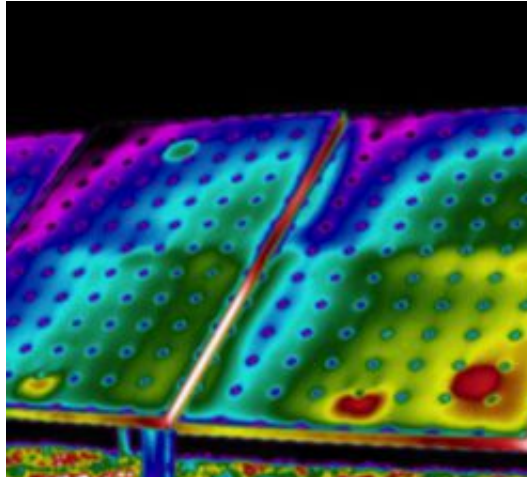
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Website

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Customer support

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General description

This course gives a general introduction to infrared thermography and an overview on its specific use for inspections of photovoltaic solar systems. During the first day, you learn about the basics of thermography, how a thermal camera works, and how to use it correctly. The second day starts with the basics of photovoltaic solar systems and solar panel installations. You learn about infrared measurements that are critical for solar panel inspections with a thermal camera, how to interpret the displayed thermal images, and how they are associated with typical problems and faults. Emphasis is placed on case studies, selected from the field, as well as on practical exercises.

Content

- Basics of thermography (radiation, spectral waveband, influences of the atmosphere).
- Infrared camera: principles, design and operation (the focal plane array, measurement ranges, thermal tuning: level and span, color palettes).
- Infrared measurement technique: measurement parameters (emissivity, radiation from the environment, distance, relative humidity, atmospheric temperature).
- Infrared camera figures of merit: resolution limits (thermal, spatial, time related).
- Practical exercises.
- Basics of photovoltaic solar systems (terminology, design, principle of operation, module types).
- Solar panel installation: connection types (string, bypass diodes, shading).
- Infrared measurements (spectral bands, inspection conditions, spatial resolution, camera position and angle).
- Typical thermal readouts (examples, sources, interpretation—defect/no defect, practical exercises).

Course information

Available languages	English, French, German, Swedish, Italian, Dutch, Spanish.
Target group	<ul style="list-style-type: none"> • Anyone, including beginners, interested in the use of infrared thermography for the inspection of photovoltaic solar systems.
Typical student	<ul style="list-style-type: none"> • Persons working in the maintenance or installation of solar panels. • Thermographers familiar with electrical inspections and interested in solar panel inspections.
Prerequisites	<ul style="list-style-type: none"> • None.
Recommendations	<ul style="list-style-type: none"> • Basic knowledge of electrical installations or another technical field.

Course details

Duration	2 days.
Structure	Theory, camera handling, demonstrations, and practical laboratory sessions.
Exam	None.



ITC Introduction to Solar Panel Inspection—group of up to 10 persons (2 days)

P/N: ITC-PRA-2019

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Course details	
Course fee includes	<ul style="list-style-type: none">• Tuition by an ITC-licensed instructor.• Training materials in printed format.• Diploma of attendance.• Attendance by a group of up to 10 persons.• May include more, such as refreshments or lunch, depending on the location and the organizing body.
Note	Course fee does not include the cost of the instructor's travel or lodging.

Course organization	
ITC	The ITC Introduction to Solar Panel Inspection course is offered worldwide by ITC and its partners. Specific customer requests should be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC trainers and licensed trainers	The ITC Introduction to Solar Panel Inspection course is taught by qualified ITC instructors with particular experience of solar panel installations.

P/N: ITC-EXP-1011

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
This is a full 1 day course for beginners and anyone interested in infrared thermography and its applications. The course covers the basics of infrared theory, and includes demonstrations, hands-on camera experience, and practical exercises using relevant key laboratory sessions.	
Content	
<ul style="list-style-type: none"> Basics of thermography. Basics of emissivity and reflected apparent temperature. Introduction to electrical and building inspections. Infrared camera handling. Data analysis and reports. 	
Laboratory sessions	
<ul style="list-style-type: none"> Emissivity and the reflected apparent temperature. Influence of the angle of reflection on the measurement. Influence of the object size on the measurement. 	
Course information	
Available languages	English, French, German, Swedish, Danish.
Target group	<ul style="list-style-type: none"> Beginners and anyone interested in infrared thermography and its applications.
Typical student	<ul style="list-style-type: none"> Someone looking to purchase a camera. Someone who just purchased a camera. Persons starting to use infrared cameras for work. Students and pupils with thermography-related projects.
Prerequisites	<ul style="list-style-type: none"> None.
Recommendations	<ul style="list-style-type: none"> Interest in the technology and its applications.
Course details	
Duration	1 day.
Structure	Theory, camera handling and demonstrations in the morning. Practical laboratory sessions in the afternoon.
Exam	None.
Course fee includes	<ul style="list-style-type: none"> Tuition by an ITC-licensed instructor. Training materials in printed format. Diploma of attendance. Attendance by 1 person. May include more, such as refreshments or lunch, depending on the location and the organizing body.



ITC Introduction to Thermography—attendance by 1 person (1 day)

P/N: ITC-EXP-1011

Revision

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Website

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<http://support.flir.com>

Course organization	
ITC	The ITC Introduction to Thermography course is offered worldwide by ITC and partners. Specific customer requests should be forwarded to the closest ITC, ITC partner, or FLIR sales representative.
ITC trainers and licensed trainers	The ITC Introduction to Thermography course is taught by qualified ITC instructors with long experience in the various fields of thermography.

P/N: ITC-EXP-1019

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
This is a full 1 day course for beginners and anyone interested in infrared thermography and its applications. The course covers the basics of infrared theory, and includes demonstrations, hands-on camera experience, and practical exercises using relevant key laboratory sessions.	
Content	
<ul style="list-style-type: none"> Basics of thermography. Basics of emissivity and reflected apparent temperature. Introduction to electrical and building inspections. Infrared camera handling. Data analysis and reports. 	
Laboratory sessions	
<ul style="list-style-type: none"> Emissivity and the reflected apparent temperature. Influence of the angle of reflection on the measurement. Influence of the object size on the measurement. 	
Course information	
Available languages	English, French, German, Swedish, Danish.
Target group	<ul style="list-style-type: none"> Beginners and anyone interested in infrared thermography and its applications.
Typical student	<ul style="list-style-type: none"> Someone looking to purchase a camera. Someone who just purchased a camera. Persons starting to use infrared cameras for work. Students and pupils with thermography-related projects.
Prerequisites	<ul style="list-style-type: none"> None.
Recommendations	<ul style="list-style-type: none"> Interest in the technology and its applications.
Course details	
Duration	1 day.
Structure	Theory, camera handling and demonstrations in the morning. Practical laboratory sessions in the afternoon.
Exam	None.
Course fee includes	<ul style="list-style-type: none"> Tuition by an ITC-licensed instructor. Training material in printed format. Diploma of attendance. Attendance by a group of up to 10 persons. May include more, such as refreshments, lunch, the instructor's travel expenses, etc., depending on the location and the organizing body.



ITC Introduction to Thermography—group of up to 10 persons (1 day)

P/N: ITC-EXP-1019

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Website

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Customer support

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Course organization	
ITC	The ITC Introduction to Thermography course is offered worldwide by ITC and partners. Specific customer requests should be forwarded to the closest ITC, ITC partner, or FLIR sales representative.
ITC trainers and licensed trainers	The ITC Introduction to Thermography course is taught by qualified ITC instructors with long experience in the various fields of thermography.

P/N: ITC-EXP-1026

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
This is a full 1 day course for beginners and anyone interested in infrared thermography and its applications. The course covers the basics of infrared theory, and includes demonstrations, hands-on camera experience, and practical exercises using relevant key laboratory sessions.	
Content	
<ul style="list-style-type: none"> Basics of thermography. Basics of emissivity and reflected apparent temperature. Introduction to electrical and building inspections. Infrared camera handling. Data analysis and reports. 	
Laboratory sessions	
<ul style="list-style-type: none"> Emissivity and the reflected apparent temperature. Influence of the angle of reflection on the measurement. Influence of the object size on the measurement. 	

Course information	
Available languages	English, French, German, Swedish, Danish.
Target group	<ul style="list-style-type: none"> Beginners and anyone interested in infrared thermography and its applications.
Typical student	<ul style="list-style-type: none"> Someone looking to purchase a camera. Someone who just purchased a camera. Persons starting to use infrared cameras for work. Students and pupils with thermography-related projects.
Prerequisites	<ul style="list-style-type: none"> None.
Recommendations	<ul style="list-style-type: none"> Interest in the technology and its applications.

Course details	
Duration	1 day.
Structure	Theory, camera handling and demonstrations in the morning. Practical laboratory sessions in the afternoon.
Exam	None.
Course fee includes	<ul style="list-style-type: none"> Tuition by an ITC-licensed instructor. Training material in printed format. Diploma of attendance. Attendance by a group of up to 10 persons. May include more, such as refreshments, lunch, the instructor's travel expenses, etc., depending on the location and the organizing body.



ITC Introduction to Thermography - group of up to 6 persons (1 day)

P/N: ITC-EXP-1026

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Course organization	
ITC	The ITC Introduction to Thermography course is offered worldwide by ITC and partners. Specific customer requests should be forwarded to the closest ITC, ITC partner, or FLIR sales representative.
ITC trainers and licensed trainers	The ITC Introduction to Thermography course is taught by qualified ITC instructors with long experience in the various fields of thermography.

P/N: ITC-ADV-3011

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Website

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Customer support

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General description	
This course bridges the gap between infrared thermography, background science, and applications. The participant will learn the physical concepts of heat transfer and apply them together with relevant building science. After the course, the participant will be able to undertake a qualified building inspections on the basis of existing laws, standards, and regulations.	
Note: This course refers mainly to European building standards. Please consult ITC before selling it in other countries.	
Content	
<ul style="list-style-type: none"> • Introduction to and refresher of infrared basics. • Thermal transfer and wall structures. • Insulating materials. • Humidity, moisture, and the dew point. • Air leaks, pressure profiles, and air permeability. • Survey methodology. 	
Laboratory sessions	
<ul style="list-style-type: none"> • Outside inspection. • Air permeability test (with blower door). • Reporting. 	
Course information	
Available languages	English
Target group	<ul style="list-style-type: none"> • Professional users in building applications who want to become experts in building thermography.
Typical student	<ul style="list-style-type: none"> • Knows how to operate an infrared camera. • Knows how to create a report. • Has a background in a building profession but moderate experience of infrared or has experience in another infrared application field but moderate knowledge of building science.
Prerequisites	<ul style="list-style-type: none"> • Valid Level 1 thermography certificate. • Infrared-related education and experience.
Recommendations	<ul style="list-style-type: none"> • Knowledge of building techniques. • Bring own PC for calculations and exercises.
Course details	
Duration	3 days (24 hours).
Structure	Theory takes place in the mornings. Practical laboratory sessions, calculations, and software exercises are scheduled for the afternoons.



ITC Professional Building Inspection—attendance by 1 person (3 days)

P/N: ITC-ADV-3011

Revision

44105

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2017-08-15 14:19 UTC+1

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Course details	
Exam	A final test (20 multiple-choice questions) will be taken on the day 3 in the afternoon. The correct answers will be discussed by the instructor and the participants.
Course fee includes	<ul style="list-style-type: none">• Tuition by an ITC-licensed instructor.• Training materials in printed format.• Refreshments.• Diploma of attendance.• Attendance by 1 person.• May include more, such as lunch, depending on the location and the organizing body.
Course organization	
ITC	The ITC Professional Building Inspection course is offered worldwide by ITC as listed in "Courses offered by ITC partners" (T560393). Specific customer requests should be forwarded to the closest ITC subsidiary.
ITC trainers and licensed trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach the ITC Professional Building Inspection course.

P/N: ITC-ADV-3019

Revision

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Website

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Customer support

<http://support.flir.com>



General description	
<p>This course bridges the gap between infrared thermography, background science, and applications. The participant will learn the physical concepts of heat transfer and apply them together with relevant building science. After the course, the participant will be able to undertake a qualified building inspections on the basis of existing laws, standards, and regulations.</p>	
<p>Note: This course refers mainly to European building standards. Please consult ITC before selling it in other countries.</p>	
Content	
<ul style="list-style-type: none"> • Introduction to and refresher of infrared basics. • Thermal transfer and wall structures. • Insulating materials. • Humidity, moisture, and the dew point. • Air leaks, pressure profiles, and air permeability. • Survey methodology. 	
Laboratory sessions	
<ul style="list-style-type: none"> • Outside inspection. • Air permeability test (with blower door). • Reporting. 	
Course information	
Available languages	English
Target group	<ul style="list-style-type: none"> • Professional users in building applications who want to become experts in building thermography.
Typical student	<ul style="list-style-type: none"> • Knows how to operate an infrared camera. • Knows how to create a report. • Has a background in a building profession but moderate experience of infrared or has experience in another infrared application field but moderate knowledge of building science.
Prerequisites	<ul style="list-style-type: none"> • Valid Level 1 thermography certificate. • Infrared-related education and experience.
Recommendations	<ul style="list-style-type: none"> • Knowledge of building techniques. • Bring own PC for calculations and exercises.
Course details	
Duration	3 days (24 hours).
Structure	Theory takes place in the mornings. Practical laboratory sessions, calculations, and software exercises are scheduled for the afternoons.



ITC Professional Building Inspection—group of up to 10 persons (3 days)

P/N: ITC-ADV-3019

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Course details	
Exam	A final test (20 multiple-choice questions) will be taken on the day 3 in the afternoon. The correct answers will be discussed by the instructor and the participants.
Course fee includes	<ul style="list-style-type: none">• Tuition by an ITC-licensed instructor.• Training materials in printed format.• Refreshments.• Diploma of attendance.• Attendance by a group of up to 10 persons.• May include more, such as lunch, depending on the location and the organizing body.
Course organization	
ITC	The ITC Professional Building Inspection course is offered worldwide by ITC as listed in "Courses offered by ITC partners" (T560393). Specific customer requests should be forwarded to the closest ITC subsidiary.
ITC trainers and licensed trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach the ITC Professional Building Inspection course.

P/N: ITC-ADV-3055

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
<p>This course bridges the gap between infrared thermography, background science, and applications. The participant will learn fundamental concepts of heat and chemistry, and how to set up and operate the furnace camera, and to adjust it for environmental conditions related to furnace applications. Laboratory and/or field practice is a key part of this class. Basic inspection procedures will be covered, including equipment setup, route planning, access requirements, safety practices/equipment, and reporting.</p>	
<p>Note: This part number is reserved for adding additional students to an ITC Professional Furnace Inspection on-site course.</p>	
Content	
<ul style="list-style-type: none"> • Introduction. • Working environment (refineries, units, furnaces). • General rules, camera set up and operation. • On-site job organization and related procedures. • Basics of radiative thermal transfer. • Principles and limitations of infrared furnace applications. • Discussion and evaluation of inspection and measurement results. • Methodology. • Reporting. 	
Laboratory sessions	
<ul style="list-style-type: none"> • On-site job organization. • Following the site inspection procedure. • Site measurements. • If possible, field work on site, inspecting real equipment. 	
Course information	
Available languages	English, French.
Target group	<ul style="list-style-type: none"> • Users of FLIR furnace cameras such as the FLIR GF309. • Users of cameras such as the AGEMA 550, Inframetrics 290/390, and FLIR ThermoCAM P25F/P50F. • Qualified thermographers who want to learn more about furnace applications. • Non-thermographers who want to learn how to use furnace cameras or other cameras suited for furnace applications for measurements in their industry.
Typical student	<ul style="list-style-type: none"> • Persons working with furnace applications in the industry and/or with surveillance and/or predictive maintenance and rather moderate knowledge of infrared thermography. • Or persons from other infrared application fields with moderate knowledge of furnace applications and little experience of furnace cameras.



ITC Professional Furnace Inspection—additional student to an on-site course, 1 person (3 days)

P/N: ITC-ADV-3055

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Course information	
Prerequisites	<ul style="list-style-type: none">• Basic understanding and knowledge of the natural sciences.• Technical background.

Course details	
Duration	3 days. Additional days upon request (ITC-ADV-4006).
Structure	Theory classes with integrated hands-on during day one and the morning of day two and three, practical labs in the afternoon of day two and three.
Exam	None.
Course fee includes	<ul style="list-style-type: none">• Tuition by an ITC-licensed instructor.• Training materials in printed format.• Diploma of attendance.• May include more, such as refreshments or lunch, depending on the location and the organizing body.
Note	This course can only be booked via ITC due to FLIR GF camera export restrictions.

Course organization	
ITC	The ITC Professional Furnace Inspection course is offered worldwide by ITC subsidiaries. Specific customer requests should be forwarded to the closest ITC subsidiary.
ITC trainers and licensed trainers	The ITC Professional Furnace Inspection course is taught by qualified ITC trainers with special expertise in handling furnace cameras and in furnace applications.

P/N: ITC-ADV-3051

Revision

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Website

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Customer support

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General description	
<p>This course bridges the gap between infrared thermography, background science, and applications. The participant will learn fundamental concepts of heat and chemistry, and how to set up and operate the furnace camera, and to adjust it for environmental conditions related to furnace applications. Laboratory and/or field practice is a key part of this class. Basic inspection procedures will be covered, including equipment setup, route planning, access requirements, safety practices/equipment, and reporting.</p>	
Content	
<ul style="list-style-type: none"> • Introduction. • Working environment (refineries, units, furnaces). • General rules, camera set up and operation. • On-site job organization and related procedures. • Basics of radiative thermal transfer. • Principles and limitations of infrared furnace applications. • Discussion and evaluation of inspection and measurement results. • Methodology. • Reporting. 	
Laboratory sessions	
<ul style="list-style-type: none"> • On-site job organization. • Following the site inspection procedure. • Site measurements. • If possible, field work on site, inspecting real equipment. 	
Course information	
Available languages	English, French.
Target group	<ul style="list-style-type: none"> • Users of FLIR furnace cameras such as the FLIR GF309. • Users of cameras such as the AGEMA 550, Inframetrics 290/390, and FLIR ThermoCAM P25F/P50F. • Qualified thermographers who want to learn more about furnace applications. • Non-thermographers who want to learn how to use furnace cameras or other cameras suited for furnace applications for measurements in their industry.
Typical student	<ul style="list-style-type: none"> • Persons working with furnace applications in the industry and/or with surveillance and/or predictive maintenance and rather moderate knowledge of infrared thermography. • Or persons from other infrared application fields with moderate knowledge of furnace applications and little experience of furnace cameras.
Prerequisites	<ul style="list-style-type: none"> • Basic understanding and knowledge of the natural sciences. • Technical background.



ITC Professional Furnace Inspection—attendance by 1 person (3 days)

P/N: ITC-ADV-3051

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Course details	
Duration	3 days. Additional days upon request (ITC-ADV-4006).
Structure	Theory classes with integrated hands-on during day one and the morning of day two and three, practical labs in the afternoon of day two and three.
Exam	None.
Course fee includes	<ul style="list-style-type: none">• Tuition by an ITC-licensed instructor.• Training materials in printed format.• Diploma of attendance.• May include more, such as refreshments or lunch, depending on the location and the organizing body.
Note	This course can only be booked via ITC due to FLIR GF camera export restrictions.

Course organization	
ITC	The ITC Professional Furnace Inspection course is offered worldwide by ITC subsidiaries. Specific customer requests should be forwarded to the closest ITC subsidiary.
ITC trainers and licensed trainers	The ITC Professional Furnace Inspection course is taught by qualified ITC trainers with special expertise in handling furnace cameras and in furnace applications.

P/N: ITC-ADV-3059

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Website

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Customer support

<http://support.flir.com>



General description	
<p>This course bridges the gap between infrared thermography, background science, and applications. The participant will learn fundamental concepts of heat and chemistry, and how to set up and operate the furnace camera, and to adjust it for environmental conditions related to furnace applications. Laboratory and/or field practice is a key part of this class. Basic inspection procedures will be covered, including equipment setup, route planning, access requirements, safety practices/equipment, and reporting.</p>	
Content	
<ul style="list-style-type: none"> • Introduction. • Working environment (refineries, units, furnaces). • General rules, camera set up and operation. • On-site job organization and related procedures. • Basics of radiative thermal transfer. • Principles and limitations of infrared furnace applications. • Discussion and evaluation of inspection and measurement results. • Methodology. • Reporting. 	
Laboratory sessions	
<ul style="list-style-type: none"> • On-site job organization. • Following the site inspection procedure. • Site measurements. • If possible, field work on site, inspecting real equipment. 	
Course information	
Available languages	English, French.
Target group	<ul style="list-style-type: none"> • Users of FLIR furnace cameras such as the FLIR GF309. • Users of cameras such as the AGEMA 550, Inframetrics 290/390, and FLIR ThermoCAM P25F/P50F. • Qualified thermographers who want to learn more about furnace applications. • Non-thermographers who want to learn how to use furnace cameras or other cameras suited for furnace applications for measurements in their industry.
Typical student	<ul style="list-style-type: none"> • Persons working with furnace applications in the industry and/or with surveillance and/or predictive maintenance and rather moderate knowledge of infrared thermography. • Or persons from other infrared application fields with moderate knowledge of furnace applications and little experience of furnace cameras.
Prerequisites	<ul style="list-style-type: none"> • Basic understanding and knowledge of the natural sciences. • Technical background.



ITC Professional Furnace Inspection—group of up to 10 persons (3 days)

P/N: ITC-ADV-3059

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Course details	
Duration	3 days. Additional days upon request (ITC-ADV-4006).
Structure	Theory classes with integrated hands-on during day one and the morning of day two and three, practical labs in the afternoon of day two and three.
Exam	None.
Course fee includes	<ul style="list-style-type: none">• Tuition by an ITC-licensed instructor.• Training materials in printed format.• Diploma of attendance.• May include more, such as refreshments or lunch, depending on the location and the organizing body.
Note	This course can only be booked via ITC due to FLIR GF camera export restrictions.

Course organization	
ITC	The ITC Professional Furnace Inspection course is offered worldwide by ITC subsidiaries. Specific customer requests should be forwarded to the closest ITC subsidiary.
ITC trainers and licensed trainers	The ITC Professional Furnace Inspection course is taught by qualified ITC trainers with special expertise in handling furnace cameras and in furnace applications.

P/N: ITC-ADV-3056

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Website

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Customer support

<http://support.flir.com>



General description	
<p>This course bridges the gap between IR thermography, background science and application theory. The participant will learn fundamental concepts of heat and chemistry, to setup and to operate the furnace camera, and to adjust it for environmental conditions related to furnace applications.</p> <p>Lab and/or field practice is a key part of this class. Basic inspection procedures will be covered including equipment checkout, route planning, permitting requirements, safety practices/equipment and reporting concepts.</p>	
Content	
<ul style="list-style-type: none"> • Introduction • Working environment (refineries, units, furnaces) • General rules, camera set up and operation • On site job organization and related procedures • Basics of radiative thermal transfer • Principles and limitations of IR furnace applications • Discussion and evaluation of inspection and measurement results • Methodology • Reporting 	
Labs	
<ul style="list-style-type: none"> • On site job organization • Follow the site inspection procedure • Site measurements • If possible, field work on-site inspecting real equipment 	
Course information	
Available languages	English, French
Target group	<ul style="list-style-type: none"> • Users of FLIR furnace cameras such as the FLIR GF309. • Users of models like AGEMA 550, Inframetrics 290/390, FLIR ThermaCAM P25F/P50F • Qualified thermographers who want to learn more about furnace applications • Non thermographers who want to learn how to use GF cameras or other cameras suited for furnace applications for measurements in their industry
Typical student	<ul style="list-style-type: none"> • A person working with furnace applications in the industry and/or with surveillance and/or predictive maintenance and rather moderate knowledge on IR thermography or • A person from another IR application field, with rather moderate knowledge about furnace applications and not too much experience of GF cameras.
Pre-requisites	<ul style="list-style-type: none"> • Basic understanding and knowledge of natural sciences • Technical background



ITC Professional Furnace Inspection—group of up to 6 persons (3 days)

P/N: ITC-ADV-3056

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Course details	
Duration	3 days, additional days upon request (ITC-ADV-4006)
Structure	Theory classes with integrated hands-on during day one and the morning of day two and three, practical labs in the afternoon of day two and three.
Exam	None
Course fee includes	<ul style="list-style-type: none">• ITC qualified instructor teaching the class• Training material in printed format• Diploma of attendance• Attendance of a group up to 6 persons• Might include more, such as lunch, refreshments, instructor's travel expenses, etc. depending on location and organizing entity
Note	This course can only be booked via ITC due to the FLIR GF camera export restrictions.

Course organization	
ITC	The ITC Advanced Furnace Application Course is offered worldwide by ITC subsidiaries. Specific customer requests shall be forwarded to the closest ITC subsidiary.
ITC Trainers and Licensed Trainers	The ITC Advanced Furnace Application is lectured by qualified ITC trainers with special expertise in handling the GF cameras and furnace applications.

P/N: ITC-ADV-3035

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Website

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Customer support

<http://support.flir.com>



General description

This course bridges the gap between infrared (IR) thermography, background science, and applications. Participants will learn fundamental concepts of heat and chemistry, and how to set up and operate FLIR's optical gas imaging (OGI) cameras, and to adjust them for environmental conditions to find gas leaks.

Laboratory sessions and/or field practice in finding leaks are a key part of this class. Basic inspection procedures will be covered, including equipment setup, route planning, access requirements, safety practices/equipment, and reporting. After the course, participants will be able to undertake qualified inspections on the basis of existing laws, standards, and regulations.

Note 1: This course can only be booked via ITC due to camera export restrictions. Please inform ITC if the customer has a medium-wave (MW) or long-wave (LW) OGI camera.

Note 2: This part number is reserved for adding additional students to a gas detection on-site course.

Content

- Introduction.
- Camera set up and operation.
- Thermal science fundamentals.
- Heat transfer.
- IR theory.
- Volatile organic compound (VOC) absorption characteristics.
- Survey and reporting.
- Safety considerations.

Laboratory sessions

- Hands-on and practical exercises during the afternoon of day 2.
- If possible, field work on-site inspecting real equipment. If not, exercises on ITC's specially tailored OGI laboratory equipment.

Course information

Available languages

English.

Target group

- Qualified thermographers who want to learn more about the special applications of volatile gas detection within the petrochemical industry with an MW IR camera.
- Qualified thermographers who want to learn more about the special applications of volatile gas detection for the surveillance of electrical equipment with an LW IR camera.
- Non-thermographers who want to learn how to use their MW IR camera to complement or replace existing leak detection and repair (LDAR) techniques, e.g., in the petrochemical industry.
- Non-thermographers who want to learn how to use their LW IR camera to complement or replace existing LDAR techniques.



ITC Professional Optical Gas Imaging—additional student to an on-site course, 1 person (3 days)

P/N: ITC-ADV-3035

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Course information	
Typical student	<ul style="list-style-type: none"> Persons working in the petrochemical industry in surveillance and/or predictive maintenance and with moderate knowledge of thermography. Persons working in surveillance and/or predictive maintenance of electrical equipment and with moderate knowledge of thermography. Persons from other IR application fields, with moderate knowledge of VOC gases and little experience of OGI cameras.
Pre-requisites	<ul style="list-style-type: none"> A basic understanding and knowledge of the natural sciences. A technical background.

Course details	
Duration	3 days (20 hours).
Structure	Theory classes with integrated hands-on practice during day 1 and the morning of days 2 and 3, and a practical laboratory exam in the afternoon of days 2 and 3.
Exam	A final exam (30 multiple-choice questions) will be taken on day 3 in the afternoon. The correct answers will be discussed afterwards by the instructor and the participants.
Course fee includes	<ul style="list-style-type: none"> Tuition by an ITC-licensed instructor. Training materials in printed format. Refreshments. Diploma of attendance. Attendance by 1 person. May include more, such as lunch, depending on the location and the organizing body.
Note	Only for non-EURO, non-SEK, non NOK, non- £, non-CHF countries.

Course organization	
ITC	The ITC Professional Optical Gas Imaging course is offered worldwide by ITC subsidiaries as listed in "Courses offered by ITC partners" (T560393). Specific customer requests should be forwarded to the closest ITC subsidiary.
ITC trainers and licensed trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach the ITC Professional Optical Gas Imaging course.

P/N: ITC-ADV-3031

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Website

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General description

This course bridges the gap between infrared (IR) thermography, background science, and applications. Participants will learn fundamental concepts of heat and chemistry, and how to set up and operate FLIR's optical gas imaging (OGI) cameras, and to adjust them for environmental conditions to find gas leaks.

Laboratory sessions and/or field practice in finding leaks are a key part of this class. Basic inspection procedures will be covered, including equipment setup, route planning, access requirements, safety practices/equipment, and reporting. After the course, participants will be able to undertake qualified inspections on the basis of existing laws, standards, and regulations.

Note: This course can only be booked via ITC due to camera export restrictions. Please inform ITC if the customer has a medium-wave (MW) or long-wave (LW) OGI camera.

Content

- Introduction.
- Camera set up and operation.
- Thermal science fundamentals.
- Heat transfer.
- IR theory.
- Volatile organic compound (VOC) absorption characteristics.
- Survey and reporting.
- Safety considerations.

Laboratory sessions

- Hands-on and practical exercises during the afternoon of day 2.
- If possible, field work on-site inspecting real equipment. If not, exercises on ITC's specially tailored OGI laboratory equipment.

Course information

Available languages

English, French.

Target group

- Qualified thermographers who want to learn more about the special applications of volatile gas detection within the petrochemical industry with an MW IR camera.
- Qualified thermographers who want to learn more about the special applications of volatile gas detection for the surveillance of electrical equipment with an LW IR camera.
- Non-thermographers who want to learn how to use their MW IR camera to complement or replace existing leak detection and repair (LDAR) techniques, e.g., in the petrochemical industry.
- Non-thermographers who want to learn how to use their LW IR camera to complement or replace existing LDAR techniques.



ITC Professional Optical Gas Imaging—attendance by 1 person (3 days)

P/N: ITC-ADV-3031

Revision

44105

Last modified

2017-08-15 14:19 UTC+1

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Course information	
Typical student	<ul style="list-style-type: none">• Persons working in the petrochemical industry in surveillance and/or predictive maintenance and with moderate knowledge of thermography.• Persons working in surveillance and/or predictive maintenance of electrical equipment and with moderate knowledge of thermography.• Persons from other IR application fields, with moderate knowledge of VOC gases and little experience of OGI cameras.
Prerequisites	<ul style="list-style-type: none">• A basic understanding and knowledge of the natural sciences.• A technical background.

Course details	
Duration	3 days (20 hours).
Structure	Theory classes with integrated hands-on practice during day 1 and the morning of days 2 and 3, and a practical laboratory exam in the afternoon of days 2 and 3.
Exam	A final exam (30 multiple-choice questions) will be taken on day 3 in the afternoon. The correct answers will be discussed afterwards by the instructor and the participants.
Course fee includes	<ul style="list-style-type: none">• Tuition by an ITC-licensed instructor.• Training materials in printed format.• Refreshments.• Diploma of attendance.• Attendance by 1 person.• May include more, such as lunch, depending on the location and the organizing body.

Course organization	
ITC	The ITC Professional Optical Gas Imaging course is offered worldwide by ITC subsidiaries as listed in "Courses offered by ITC partners" (T560393). Specific customer requests should be forwarded to the closest ITC subsidiary.
ITC trainers and licensed trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach the ITC Professional Optical Gas Imaging course.

P/N: ITC-ADV-3039

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
<p>This course bridges the gap between infrared (IR) thermography, background science, and applications. Participants will learn fundamental concepts of heat and chemistry, and how to set up and operate FLIR's optical gas imaging (OGI) cameras, and to adjust them for environmental conditions to find gas leaks.</p> <p>Laboratory sessions and/or field practice in finding leaks are a key part of this class. Basic inspection procedures will be covered, including equipment setup, route planning, access requirements, safety practices/equipment, and reporting. After the course, participants will be able to undertake qualified inspections on the basis of existing laws, standards, and regulations.</p>	
<p>Note: This course can only be booked via ITC due to camera export restrictions. Please inform ITC if the customer has a medium-wave (MW) or long-wave (LW) OGI camera.</p>	
Content	
<ul style="list-style-type: none"> • Introduction. • Camera set up and operation. • Thermal science fundamentals. • Heat transfer. • IR theory. • Volatile organic compound (VOC) absorption characteristics. • Survey and reporting. • Safety considerations. 	
Labs	
<ul style="list-style-type: none"> • Hands-on and practical exercises during the afternoon of day 2. • If possible, field work on-site inspecting real equipment. If not, exercises on ITC's specially tailored OGI laboratory equipment. 	

Course information	
Available languages	English.
Target group	<ul style="list-style-type: none"> • Qualified thermographers who want to learn more about the special applications of volatile gas detection within the petrochemical industry with an MW IR camera. • Qualified thermographers who want to learn more about the special applications of volatile gas detection for the surveillance of electrical equipment with an LW IR camera. • Non-thermographers who want to learn how to use their MW IR camera to complement or replace existing leak detection and repair (LDAR) techniques, e.g., in the petrochemical industry. • Non-thermographers who want to learn how to use their LW IR camera to complement or replace existing LDAR techniques.



ITC Professional Optical Gas Imaging—group of up to 10 persons (3 days)

P/N: ITC-ADV-3039

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Course information	
Typical student	<ul style="list-style-type: none"> Persons working in the petrochemical industry in surveillance and/or predictive maintenance and with moderate knowledge of thermography. Persons working in surveillance and/or predictive maintenance of electrical equipment and with moderate knowledge of thermography. Persons from other IR application fields, with moderate knowledge of VOC gases and little experience of OGI cameras.
Prerequisites	<ul style="list-style-type: none"> A basic understanding and knowledge of the natural sciences. A technical background.

Course details	
Duration	3 days (20 hours).
Structure	Theory classes with integrated hands-on practice during day 1 and the morning of days 2 and 3, and a practical laboratory exam in the afternoon of days 2 and 3.
Exam	A final exam (30 multiple-choice questions) will be taken on day 3 in the afternoon. The correct answers will be discussed afterwards by the instructor and the participants.
Course fee includes	<ul style="list-style-type: none"> Tuition by an ITC-licensed instructor. Training materials in printed format. Refreshments. Diploma of attendance. Attendance by a group of up to 10 persons. May include more, such as lunch, depending on the location and the organizing body.

Course organization	
ITC	The ITC Professional Optical Gas Imaging course is offered worldwide by ITC subsidiaries as listed in "Courses offered by ITC partners" (T560393). Specific customer requests should be forwarded to the closest ITC subsidiary.
ITC trainers and licensed trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach the ITC Professional Optical Gas Imaging course.

P/N: ITC-ADV-3036

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
<p>This course bridges the gap between infrared (IR) thermography, background science, and applications. Participants will learn fundamental concepts of heat and chemistry, and how to set up and operate FLIR's optical gas imaging (OGI) cameras, and to adjust them for environmental conditions to find gas leaks.</p> <p>Laboratory sessions and/or field practice in finding leaks are a key part of this class. Basic inspection procedures will be covered, including equipment setup, route planning, access requirements, safety practices/equipment, and reporting. After the course, participants will be able to undertake qualified inspections on the basis of existing laws, standards, and regulations.</p>	
<p>Note: This course can only be booked via ITC due to camera export restrictions. Please inform ITC if the customer has a medium-wave (MW) or long-wave (LW) OGI camera.</p>	
Content	
<ul style="list-style-type: none"> • Introduction. • Camera set up and operation. • Thermal science fundamentals. • Heat transfer. • IR theory. • Volatile organic compound (VOC) absorption characteristics. • Survey and reporting. • Safety considerations. 	
Laboratory sessions	
<ul style="list-style-type: none"> • Hands-on and practical exercises during the afternoon of day 2. • If possible, field work on-site inspecting real equipment. If not, exercises on ITC's specially tailored OGI laboratory equipment. 	
Course information	
Available languages	English, French.
Target group	<ul style="list-style-type: none"> • Qualified thermographers who want to learn more about the special applications of volatile gas detection within the petrochemical industry with an MW IR camera. • Qualified thermographers who want to learn more about the special applications of volatile gas detection for the surveillance of electrical equipment with an LW IR camera. • Non-thermographers who want to learn how to use their MW IR camera to complement or replace existing leak detection and repair (LDAR) techniques, e.g., in the petrochemical industry. • Non-thermographers who want to learn how to use their LW IR camera to complement or replace existing LDAR techniques.



ITC Professional Optical Gas Imaging—group of up to 6 persons (3 days)

P/N: ITC-ADV-3036

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Course information	
Typical student	<ul style="list-style-type: none">• Persons working in the petrochemical industry in surveillance and/or predictive maintenance and with moderate knowledge of thermography.• Persons working in surveillance and/or predictive maintenance of electrical equipment and with moderate knowledge of thermography.• Persons from other IR application fields, with moderate knowledge of VOC gases and little experience of OGI cameras.
Prerequisites	<ul style="list-style-type: none">• A basic understanding and knowledge of the natural sciences.• A technical background.

Course details	
Duration	3 days (20 hours). Additional days on request (ITC-ADV-4006).
Structure	Theory classes with integrated hands-on practice during day 1 and the morning of days 2 and 3, and a practical laboratory exam in the afternoon of days 2 and 3.
Exam	A final exam (30 multiple-choice questions) will be taken on day 3 in the afternoon. The correct answers will be discussed afterwards by the instructor and the participants.
Course fee includes	<ul style="list-style-type: none">• Tuition by an ITC-licensed instructor.• Training materials in printed format.• Refreshments.• Diploma of attendance.• May include more, such as lunch, depending on the location and the organizing body.

Course organization	
ITC	The ITC Professional Optical Gas Imaging course is offered worldwide by ITC subsidiaries as listed in "Courses offered by ITC partners" (T560393). Specific customer requests should be forwarded to the closest ITC subsidiary.
ITC trainers and Licensed trainers	"Courses taught by ITC instructors" (T560392) lists all licensed trainers and ITC trainers authorized to teach the ITC Professional Optical Gas Imaging course.

ITC Introduction to Human Temperature Measurement—additional student to an on-site course (2 days)

P/N: ITC-EXP-2025

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Website

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General description	
<p>This full 2-day course aims to explain how to set up a procedure for the temperature control of a human population. It is designed for persons who might have to implement a control scenario (medical authorities, customs, civil security, etc.). It starts with a brief, but necessary, summary of thermal transfer and of the fundamentals of thermography. Key factors such as NETD, drift and drift compensation, baseline measurement and updating, and factors influencing the diagnosis are explained in detail. Camera setup is included. ITC recommends organizing the course simultaneously with a full-scale field test (airport, ferry port, seaport, river port, stadium, etc.).</p>	
<p>This part number is reserved for adding additional students to a Human Temperature Measurement on site class.</p>	
Content	
<ul style="list-style-type: none"> • Introduction. • Human physiological factors. • Basic thermography. • Infrared camera basics. • Human temperature measurement methodology. 	
Laboratory sessions	
<ul style="list-style-type: none"> • Emissivity and the reflected apparent temperature. • Camera settings. • Influence of the object size on the measurement. 	

Course information	
Available languages	English.
Target group	<ul style="list-style-type: none"> • Persons with professional interest in human febrile temperature screening.
Typical student	<ul style="list-style-type: none"> • Airline operative personnel. • Reception personnel.
Prerequisites	<ul style="list-style-type: none"> • None.
Recommendations	<ul style="list-style-type: none"> • Basic technical understanding. • Should be organized alongside a full-scale field test.

Course details	
Duration	2 days.
Structure	Theory, camera handling, demonstrations in the morning and practical laboratory sessions.
Exam	None.



ITC Introduction to Human Temperature Measurement—additional student to an on-site course (2 days)

P/N: ITC-EXP-2025

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Customer support

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Course details	
Course fee includes	<ul style="list-style-type: none">• Tuition by an ITC-licensed instructor.• Training material in printed format.• Diploma of attendance.• Attendance by 1 person.• May include more, such as refreshments or lunch, depending on the location and the organizing body.

Course organization	
ITC	The ITC Introduction to Human Temperature Measurement course is offered worldwide by ITC and partners. Specific customer requests should be forwarded to the closest ITC, ITC partner, or FLIR sales representative.
ITC trainers and licensed trainers	The ITC Introduction to Human Temperature Measurement course is taught by qualified ITC instructors with particular experience in the field of electrical installations.

P/N: ITC-EXP-2021

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Website

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Customer support

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General description	
<p>This full 2-day course aims to explain how to set up a procedure for the temperature control of a human population. It is designed for persons who might have to implement a control scenario (medical authorities, customs, civil security, etc.). It starts with a brief, but necessary, summary of thermal transfer and of the fundamentals of thermography. Key factors such as NETD, drift and drift compensation, baseline measurement and updating, and factors influencing the diagnosis are explained in detail. Camera setup is included. ITC recommends organizing the course simultaneously with a full-scale field test (airport, ferry port, seaport, river port, stadium, etc.).</p>	
Content	
<ul style="list-style-type: none"> • Introduction. • Human physiological factors. • Basic thermography. • Infrared camera basics. • Human temperature measurement methodology. 	
Laboratory sessions	
<ul style="list-style-type: none"> • Emissivity and the reflected apparent temperature. • Camera settings. • Influence of the object size on the measurement. 	

Course information	
Available languages	English.
Target group	<ul style="list-style-type: none"> • Persons with professional interest in human febrile temperature screening.
Typical student	<ul style="list-style-type: none"> • Airline operative personnel. • Reception personnel.
Prerequisites	<ul style="list-style-type: none"> • None.
Recommendations	<ul style="list-style-type: none"> • Basic technical understanding. • Should be organized alongside a full-scale field test.

Course details	
Duration	2 days.
Structure	Theory, camera handling, demonstrations in the morning, and practical laboratory sessions.
Exam	None.
Course fee includes	<ul style="list-style-type: none"> • Tuition by an ITC-licensed instructor. • Training material in printed format. • Diploma of attendance. • Attendance by 1 person. • May include more, such as refreshments or lunch, depending on the location and the organizing body.



ITC Introduction to Human Temperature Measurement—attendance by 1 person (2 days)

P/N: ITC-EXP-2021

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Course organization	
ITC	The ITC Introduction to Human Temperature Measurement course is offered worldwide by ITC and partners. Specific customer requests should be forwarded to the closest ITC, ITC partner, or FLIR sales representative.
ITC trainers and licensed trainers	The ITC Introduction to Human Temperature Measurement course is taught by qualified ITC instructors with particular experience in the field of electrical installations.

ITC Short Course Human Temperature Measurement—group of up to 10 persons (2 days)

P/N: ITC-EXP-2029

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Website

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Customer support

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General description	
<p>This full 2-day course aims to explain how to set up a procedure for the temperature control of a human population. It is designed for persons who might have to implement a control scenario (medical authorities, customs, civil security, etc.). It starts with a brief, but necessary, summary of thermal transfer and of the fundamentals of thermography. Key factors such as NETD, drift and drift compensation, baseline measurement and updating, and factors influencing the diagnosis are explained in detail. Camera setup is included. ITC recommends organizing the course simultaneously with a full-scale field test (airport, ferry port, seaport, river port, stadium, etc.).</p>	
Content	
<ul style="list-style-type: none"> • Introduction. • Human physiological factors. • Basic thermography. • Infrared camera basics. • Human temperature measurement methodology. 	
Laboratory sessions	
<ul style="list-style-type: none"> • Emissivity and the reflected apparent temperature. • Camera settings. • Influence of the object size on the measurement. 	
Course information	
Available languages	English.
Target group	<ul style="list-style-type: none"> • Persons with professional interest in human febrile temperature screening.
Typical student	<ul style="list-style-type: none"> • Airline operative personnel. • Reception personnel.
Prerequisites	<ul style="list-style-type: none"> • None.
Recommendations	<ul style="list-style-type: none"> • Basic technical understanding. • Should be organized alongside a full-scale field test.
Course details	
Duration	2 days.
Structure	Theory, camera handling, demonstrations in the morning and practical laboratory sessions.
Exam	None.
Course fee includes	<ul style="list-style-type: none"> • Tuition by an ITC-licensed instructor. • Training material in printed format. • Diploma of attendance. • Attendance by a group of up to 10 persons. • May include more, such as refreshments, lunch, the instructor's travel expenses, etc., depending on the location and the organizing body.



ITC Short Course Human Temperature Measurement—group of up to 10 persons (2 days)

P/N: ITC-EXP-2029

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Website

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Customer support

<http://support.flir.com>

Course organization	
ITC	The ITC Short Course Human Temperature Measurement is offered worldwide by ITC and partners. Specific customer requests should be forwarded to the closest ITC, ITC partner, or FLIR sales representative.
ITC trainers and licensed trainers	The ITC Short Course Human Temperature Measurement is taught by qualified ITC instructors with particular experience in the field of electrical installations.

P/N: ITC-SOW-0001

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



General description	
This course is for users of FLIR software such as FLIR Tools+ or FLIR ResearchIR. Please note that the content and laboratory sessions depend on the software being taught.	
Content	
<ul style="list-style-type: none"> • System requirements. • Configuration. • Analyzing functions. • Templates. • Reporting functions. • Data exchange. 	
Laboratory sessions	
<ul style="list-style-type: none"> • System setup. • Importing data. • Data analysis. • Creating templates. • Creating reports. • Exporting data. • Triggering. 	

Course information	
Available languages	English, French, German. Other languages on request.
Target group	<ul style="list-style-type: none"> • Persons interested in, or users, of the specific software.
Typical student	<ul style="list-style-type: none"> • Consultants interested in reporting. • Building inspectors with reporting needs. • R&D staff interested in advanced data analysis.
Prerequisites	<ul style="list-style-type: none"> • Laptop with installed software—full version or 30 day demo (download from www.flir.com).
Recommendations	<ul style="list-style-type: none"> • Basic knowledge of thermography and related areas.

Course details	
Duration	Depends on the software.
Structure	Short system introduction, then demonstrations and practical exercises.
Exam	None.



ITC Software Course—attendance by 1 person (per day)

P/N: ITC-SOW-0001

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Course details

Course fee includes

- Tuition by an ITC-licensed instructor.
- Training materials.
- Diploma of attendance.
- May include more, such as refreshments or lunch, depending on the location and the organizing body.

Course organization

ITC

Software courses are offered worldwide by ITC and its partners. Specific customer requests should be forwarded to the closest ITC, ITC partner or FLIR sales representative.

ITC trainers and licensed trainers

Software courses are taught by ITC qualified instructors experienced in using the software that is the subject of the course.

P/N: ITC-SOW-0009

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Website

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Customer support

<http://support.flir.com>



General description	
This course is for users of FLIR software such as FLIR Tools+ or FLIR ResearchIR. Please note that the content and laboratory sessions depend on the software being taught.	
Content	
<ul style="list-style-type: none"> • System requirements. • Configuration. • Analyzing functions. • Templates. • Reporting functions. • Data exchange. 	
Laboratory sessions	
<ul style="list-style-type: none"> • System setup. • Importing data. • Data analysis. • Creating templates. • Creating reports. • Exporting data. • Triggering. 	
Course information	
Available languages	English, French, German. Other languages on request.
Target group	<ul style="list-style-type: none"> • Persons interested in, or users, of the specific software.
Typical student	<ul style="list-style-type: none"> • Consultants interested in reporting. • Building inspectors with reporting needs. • R&D staff interested in advanced data analysis.
Prerequisites	<ul style="list-style-type: none"> • Laptop with installed software—full version or 30 day demo (download from www.flir.com).
Recommendations	<ul style="list-style-type: none"> • Basic knowledge of thermography and related areas.
Course details	
Duration	Depends on the software.
Structure	Short system introduction, then demonstrations and practical exercises.
Exam	None.



ITC Software Course—group of up to 10 persons (per day)

P/N: ITC-SOW-0009

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Website<http://www.flir.com>**Customer support**<http://support.flir.com>

Course details	
Course fee includes	<ul style="list-style-type: none">• Tuition by an ITC-licensed instructor.• Training materials.• Diploma of attendance.• Attendance by a group of up to 10 persons.• May include more, such as refreshments, lunch, the instructor's travel expenses, etc., depending on the location and the organizing body.

Course organization	
ITC	Software courses are offered worldwide by ITC and its partners. Specific customer requests should be forwarded to the closest ITC, ITC partner or FLIR sales representative.
ITC trainers and licensed trainers	Software courses are taught by ITC qualified instructors experienced in using the software that is the subject of the course.

P/N: ITC-EXP-1001

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Customer support

<http://support.flir.com>



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> • Customized. 	
Laboratory sessions	
<ul style="list-style-type: none"> • Customized. 	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish. Other languages on request.
Target group	<ul style="list-style-type: none"> • Depends on the course.
Typical student	<ul style="list-style-type: none"> • Persons with very specific requirements. • Persons requesting customized training, e.g., R&D training. • Persons requesting product/system training.
Prerequisites	<ul style="list-style-type: none"> • Depends on the course.
Recommendations	<ul style="list-style-type: none"> • Depends on the course.
Course details	
Duration	1 day.
Structure	Typically theory and practical exercises.
Exam	On request.
Course fee includes	<ul style="list-style-type: none"> • Tuition by an ITC-licensed instructor. • Training materials in printed format. • Diploma of attendance. • Attendance by 1 person. • May include more, such as refreshments or lunch, depending on the location and the organizing body.
Course organization	
ITC	Customized courses are offered worldwide by ITC and its partners. Specific customer requests should be forwarded to the closest ITC, ITC partner, or FLIR sales representative.
ITC trainers and licensed trainers	Customized courses are taught by ITC qualified trainers with experience in the relevant field of application.

P/N: ITC-EXP-1009

Revision

44105

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2017-08-15 14:19 UTC+1

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General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> • Customized. 	
Laboratory sessions	
<ul style="list-style-type: none"> • Customized. 	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish. Other languages on request.
Target group	<ul style="list-style-type: none"> • Depends on the course.
Typical student	<ul style="list-style-type: none"> • Persons with very specific requirements. • Persons requesting customized training, e.g., R&D training. • Persons requesting product/system training.
Prerequisites	<ul style="list-style-type: none"> • Depends on the course.
Recommendations	<ul style="list-style-type: none"> • Depends on the course.
Course details	
Duration	1 day.
Structure	Typically theory and practical exercises.
Exam	On request.
Course fee includes	<ul style="list-style-type: none"> • Tuition by an ITC-licensed instructor. • Training materials in printed format. • Diploma of attendance. • Attendance by a group of up to 10 persons. • May include more, such as refreshments or lunch, depending on the location and the organizing body.
Course organization	
ITC	Customized courses are offered worldwide by ITC and its partners. Specific customer requests should be forwarded to the closest ITC, ITC partner, or FLIR sales representative.
ITC trainers and licensed trainers	Customized courses are taught by ITC qualified trainers with experience in the relevant field of application.

P/N: ITC-EXP-2001

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Website

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Customer support

<http://support.flir.com>



General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> • Customized. 	
Laboratory sessions	
<ul style="list-style-type: none"> • Customized. 	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish. Other languages on request.
Target group	<ul style="list-style-type: none"> • Depends on the course.
Typical student	<ul style="list-style-type: none"> • Persons with very specific requirements. • Persons requesting customized training, e.g., R&D training. • Persons requesting product/system training.
Pre-requisites	<ul style="list-style-type: none"> • Depends on the course.
Recommendations	<ul style="list-style-type: none"> • Depends on the course.
Course details	
Duration	2 days.
Structure	Typically theory and practical exercises.
Exam	On request.
Course fee includes	<ul style="list-style-type: none"> • Tuition by an ITC-licensed instructor. • Training materials in printed format. • Diploma of attendance. • Attendance by 1 person. • May include more, such as refreshments or lunch, depending on the location and the organizing body.
Course organization	
ITC	Customized courses are offered worldwide by ITC and its partners. Specific customer requests should be forwarded to the closest ITC, ITC partner, or FLIR sales representative.
ITC trainers and licensed trainers	Customized courses are taught by ITC qualified trainers with experience in the relevant field of application.

P/N: ITC-EXP-2009

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Customer support

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General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> • Customized. 	
Laboratory sessions	
<ul style="list-style-type: none"> • Customized. 	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish. Other languages on request.
Target group	<ul style="list-style-type: none"> • Depends on the course.
Typical student	<ul style="list-style-type: none"> • Persons with very specific requirements. • Persons requesting customized training, e.g., R&D training. • Persons requesting product/system training.
Prerequisites	<ul style="list-style-type: none"> • Depends on the course.
Recommendations	<ul style="list-style-type: none"> • Depends on the course.
Course details	
Duration	2 days.
Structure	Typically theory and practical exercises.
Exam	On request.
Course fee includes	<ul style="list-style-type: none"> • Tuition by an ITC-licensed instructor. • Training materials in printed format. • Diploma of attendance. • Attendance by a group of up to 10 persons. • May include more, such as refreshments or lunch, depending on the location and the organizing body.
Course organization	
ITC	Customized courses are offered worldwide by ITC and its partners. Specific customer requests should be forwarded to the closest ITC, ITC partner, or FLIR sales representative.
ITC trainers and licensed trainers	Customized courses are taught by ITC qualified trainers with experience in the relevant field of application.

P/N: ITC-EXP-3001

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44105

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Customer support

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General description	
Customized courses or courses that are offered locally. Please contact you nearest ITC or FLIR office for information.	
Content	
<ul style="list-style-type: none"> • Customized. 	
Laboratory sessions	
<ul style="list-style-type: none"> • Customized. 	
Course information	
Available languages	English, Dutch, French, German, Italian, Spanish, Swedish. Other languages on request.
Target group	<ul style="list-style-type: none"> • Depends on the course.
Typical student	<ul style="list-style-type: none"> • Persons with very specific requirements. • Persons requesting customized training, e.g., R&D training. • Persons requesting product/system training.
Pre-requisites	<ul style="list-style-type: none"> • Depends on the course.
Recommendations	<ul style="list-style-type: none"> • Depends on the course.
Course details	
Duration	3 days.
Structure	Typically theory and practical exercises.
Exam	On request.
Course fee includes	<ul style="list-style-type: none"> • Tuition by an ITC-licensed instructor. • Training materials in printed format. • Diploma of attendance. • Attendance by 1 person. • May include more, such as refreshments or lunch, depending on the location and the organizing body.
Course organization	
ITC	Customized courses are offered worldwide by ITC and its partners. Specific customer requests should be forwarded to the closest ITC, ITC partner, or FLIR sales representative.
ITC Trainers and Licensed Trainers	Customized courses are taught by ITC qualified trainers with experience in the relevant field of application.

P/N: ITC-SOW-1001

Revision

44105

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Website

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Customer support

<http://support.flir.com>



General description	
ITC Training FLIR Software—attendance by 1 person (1 day).	
Course details	
Duration	1 day.

P/N: ITC-SOW-2001

Revision

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General description	
ITC Training FLIR Software—attendance by 1 person (2 days).	
Course details	
Duration	2 days.

P/N: ITC-TFT-0100

Revision

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General description
Travel time for the instructor.

P/N: ITC-FEE-0130

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General description	
Repeat Certification DIN EN ISO 9712 TT Level 1.	
Course information	
Available languages	German (Austria, Germany, Switzerland only).
Course details	
Duration	1 day.

P/N: ITC-TOL-1002

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**General description**

Travel and lodging expenses for the instructor (Russia/CIS, North Africa)

P/N: ITC-TOL-1003

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**General description**

Travel and lodging expenses for the instructor (Middle East, Central and South Africa).

P/N: ITC-TOL-1001

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**General description**

Travel and lodging expenses for the instructor (Europe, Balkans, Turkey, Cyprus).

P/N: ITC-TOL-1005

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**General description**

Travel and lodging expenses for the instructor (other).

P/N: ITC-TOL-1004

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**General description**

Travel and lodging expenses for the instructor (various).

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