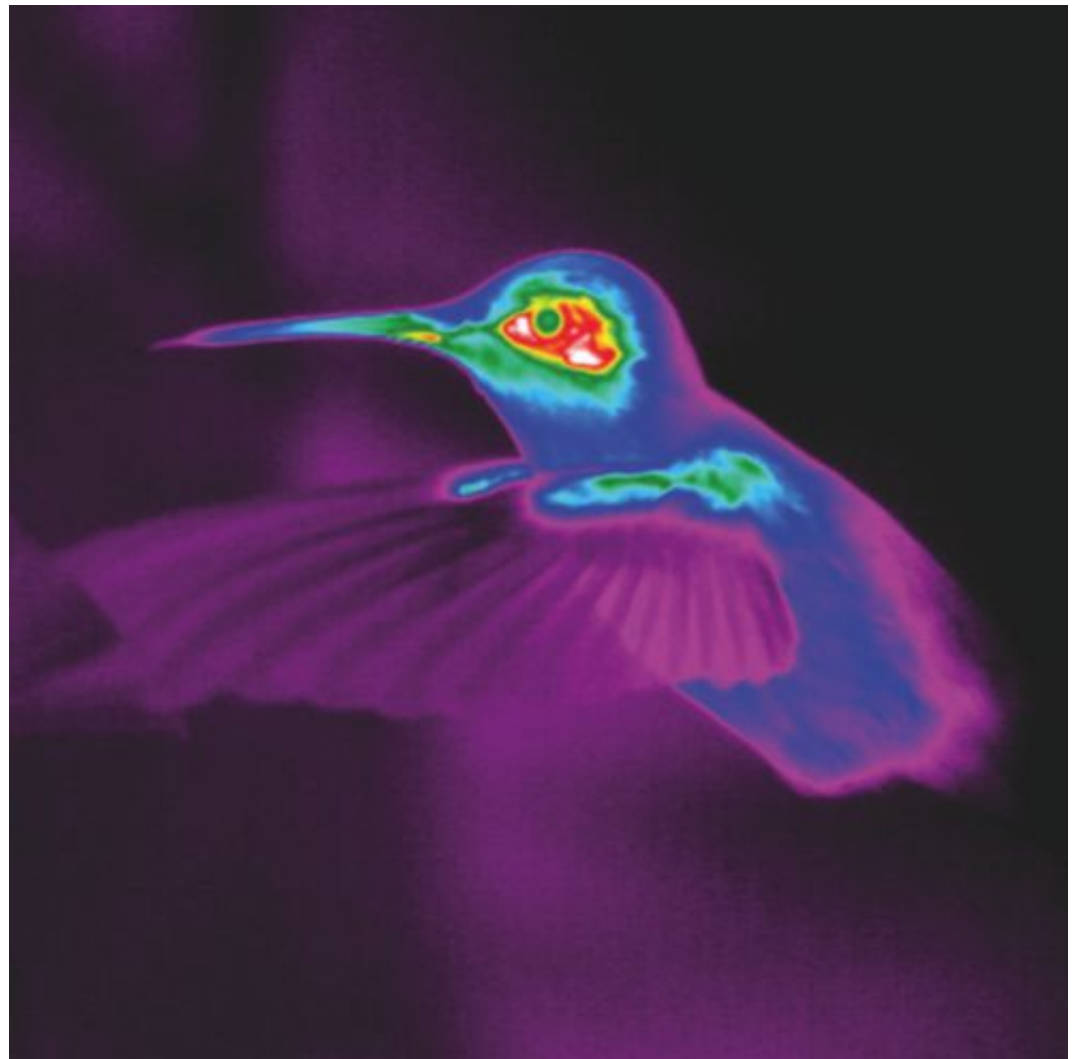


Product Catalog 2018

FLIR Volume Products

A hummingbird in infrared.
© 2010, Austin Richards.



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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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The documentation must not, in whole or part, be copied, photocopied, reproduced, translated or transmitted to any electronic medium or machine readable form without prior consent, in writing, from FLIR Systems.

Names and marks appearing on the products herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

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.

EULA Terms

- You have acquired a device ("INFRARED CAMERA") that includes software licensed by FLIR Systems from Microsoft Licensing, GP or its affiliates ("MS"). Those installed software products of MS origin, as well as associated media, printed materials, and "online" or electronic documentation ("SOFTWARE") are protected by international intellectual property laws and treaties. The SOFTWARE is licensed, not sold. All rights reserved.
- IF YOU DO NOT AGREE TO THIS END USER LICENSE AGREEMENT ("EULA"), DO NOT USE THE DEVICE OR COPY THE SOFTWARE. INSTEAD, PROMPTLY CONTACT FLIR Systems FOR INSTRUCTIONS ON RETURN OF THE UNUSED DEVICE(S) FOR A REFUND. **ANY USE OF THE SOFTWARE, INCLUDING BUT NOT LIMITED TO USE ON THE DEVICE, WILL CONSTITUTE YOUR AGREEMENT TO THIS EULA (OR RATIFICATION OF ANY PREVIOUS CONSENT).**
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SUFFICIENT TESTING TO DETERMINE THAT THE SOFTWARE IS SUITABLE FOR SUCH USE.

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- **EXPORT RESTRICTIONS.** You acknowledge that SOFTWARE is subject to U.S. export jurisdiction. You agree to comply with all applicable international and national laws that apply to the SOFTWARE, including the U.S. Export Administration Regulations, as well as end-user, end-use and destination restrictions issued by U.S. and other governments. For additional information see <http://www.microsoft.com/exporting/>.

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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:

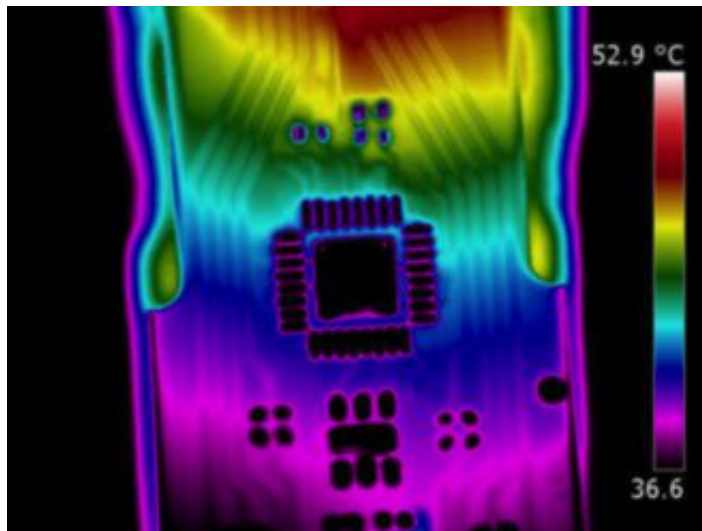
- [http:// www.infraredtraining.com](http://www.infraredtraining.com)
- <http://www.irtraining.eu>.

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

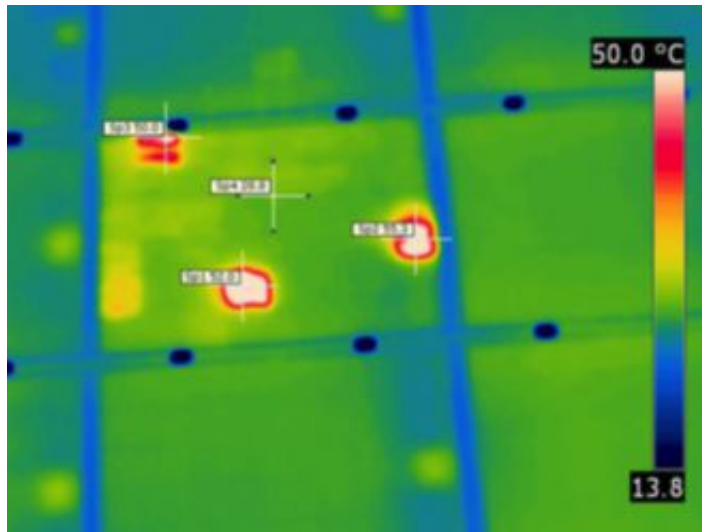
Self-paced 24/7 on-demand online courses are available for infrared thermography basics, different applications, and camera handling. Visit <http://www.irtraining.com>.

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.

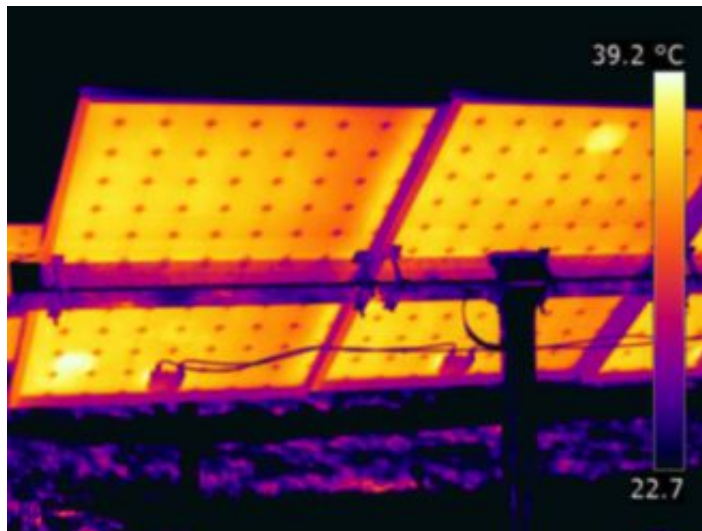
Software courses

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 Cx series

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P/N: 72001-0101

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41167

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Disclaimer

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Website

<http://www.flir.com>

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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Revision

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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 |

P/N: 72001-0101

Revision

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Website

<http://www.flir.com>

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



P/N: 72001-0101

Revision

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Website

<http://www.flir.com>

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

P/N: 72002-0202

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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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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"> 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 |
| 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 |



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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Website

<http://www.flir.com>

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 |
| Picture in Picture | IR area on visual image |



FLIR C3 (incl. Wi-Fi)

P/N: 72003-0303

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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 |
| 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

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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 |



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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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<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 Ex series

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P/N: 63901-0101

Revision

41166

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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 | 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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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 |

| 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

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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, Picture-in-Picture, Thermal blending, Digital camera. |
|-------------|---|

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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/n Frequency range: <ul style="list-style-type: none"> 2400–2480 MHz 5150–5260 MHz Max. 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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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 (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)

P/N: 63906-0604

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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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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 | 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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Website

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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 (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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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 | 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)

P/N: 63909-0904

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 |
| 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)

P/N: 63909-0904

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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">• 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

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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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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 | 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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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 |

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<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 (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

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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 | 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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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/n Frequency range: <ul style="list-style-type: none"> 2400–2480 MHz 5150–5260 MHz Max. 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

<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 (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)

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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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Customer support

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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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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: 63903-0303

Revision

41166

Last modified

2017-03-14 09:13 UTC+1

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Website

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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

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>



| 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 | 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. |



FLIR E8 (incl. Wi-Fi)

P/N: 63908-0805

Revision

43546

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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

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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

Revision

43546

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Website

<http://www.flir.com>

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

P/N: 63907-0711

Revision

43649

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Website

<http://www.flir.com>

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 TGxxx series

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P/N: 74401-0104

Revision

41856

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2017-04-03 15:53 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



| | |
|---|--|
| 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

Revision

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



| | |
|---|--|
| 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

Revision

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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/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 |



FLIR TG135 (Global)

P/N: 74402-0207

Revision

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Website

<http://www.flir.com>

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

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2015-08-24 14:07 UTC+1

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Website

<http://www.flir.com>

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

28060

Last modified

2015-08-24 14:07 UTC+1

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Disclaimer

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Website

<http://www.flir.com>

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

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Website

<http://www.flir.com>

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

Last modified

2017-04-03 15:53 UTC+1

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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

41856

Last modified

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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 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)

P/N: 74701-0104

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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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Accessories for FLIR Cx series

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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: 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: |
| <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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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

42932

Last modified

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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

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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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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:

- 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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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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Website

<http://www.flir.com>

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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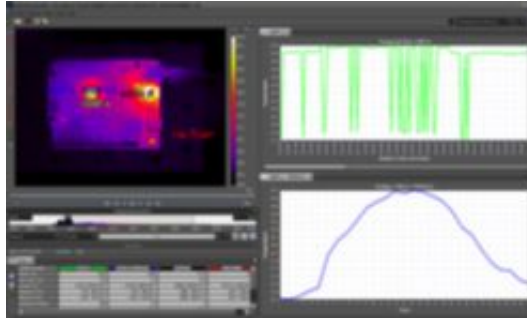
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General description

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.)

P/N: T199012

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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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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

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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. |



FLIR Tools+ (download card incl. license key)

P/N: T198583

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Website

<http://www.flir.com>

Customer support

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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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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

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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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Website

<http://www.flir.com>

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

<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 | |
| 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

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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

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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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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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P/N: T198530

Revision

42932

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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)

P/N: T198531

Revision

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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)

P/N: T199362ACC

Revision

42932

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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

<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

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Revision

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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 |
|---------|-----|

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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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

32686

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Website

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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

<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

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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. |



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Website

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Customer support

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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

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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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Customer support

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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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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

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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

Revision

34464

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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

Revision

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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

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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) | 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.

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: T199806

Revision

42932

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Website

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Customer support

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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:

- 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

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



| 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

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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

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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

Revision

34465

Last modified

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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

34469

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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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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

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 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)
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- 72002-0202; FLIR C2 Educational Kit
- 72003-0303; FLIR C3 (incl. Wi-Fi)
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