

Part number:

60101-0301

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Legal disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply.

Information and equipment described herein may require US Government authorization for export purposes. Diversion contrary to US law is prohibited.



General description

The FLIR i7 is an easy-to-use point-and-shoot infrared camera that gives you access to the infrared world. The camera is an affordable replacement for an infrared thermometer, providing a thermal image with temperature information in every pixel.

The FLIR ix series cameras are light-weight, compact, and rugged, for use in harsh environments.

Benefits:

- Easy-to-use: The FLIR i7 is fully automatic and focus-free with an intuitive interface for simple measurement.
- Compact and rugged: The camera's low weight of 0.365 kg and an accessory belt pouch make it easy to bring along at all times. Its rugged design and passing a 2 m drop test ensure ease-of-use, even in harsh environments.
- Ground breaking affordability: The ix series cameras are the most affordable infrared cameras on the market.

Imaging and optical data

IR resolution	140 × 140 pixels
Thermal sensitivity/NETD	< 0.1°C (0.18°F) / 100 mK
Field of view (FOV)	29° × 29°
Minimum focus distance	0.6 m (2 ft.)
Spatial resolution (IFOV)	3.7 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	2.8 in. color LCD
Image adjustment	Automatic adjust/lock 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
Emissivity correction	Variable from 0.1 to 1.0
Emissivity table	Emissivity table of predefined materials

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Measurement analysis

Reflected apparent temperature correction	Automatic, based on input of reflected temperature
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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

Storage media	miniSD card
File formats	Standard JPEG, 14-bit measurement data included

Data communication interfaces

Interfaces	USB Mini-B: Data transfer to and from PC
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Power system

Battery type	Rechargeable Li Ion battery
Battery voltage	3.6 V
Battery operating time	Approx. 5 hours at +25°C (+77°F) ambient temperature and typical use
Charging system	Battery is charged inside the camera.
Charging time	3 h to 90% capacity
Power management	Automatic shut-down
AC operation	AC adapter, 90–260 VAC input, 5 VDC output to camera

Environmental data

Operating temperature range	0°C to +50°C (+32°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity
EMC	<ul style="list-style-type: none"> EN 61000-6-2:2005 (Immunity) EN 61000-6-3:2007 (Emission) FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	Camera housing and lens: IP 43 (IEC 60529)
Bump	25 g (IEC 60068-2-29)
Vibration	2 g (IEC 60068-2-6)
Drop	2 m (6.6 ft.)

Physical data

Camera weight, incl. battery	0.365 kg (0.80 lb.)
Camera size (L × W × H)	223 × 79 × 85 mm (8.8 × 3.1 × 3.4 in.)
Material	Polycarbonate + acrylonitrile butadiene styrene (PC-ABS) Thixomold magnesium Thermoplastic elastomer (TPE)
Color	Black and gray

Certifications

Certification	UL, CSA, CE, PSE and CCC
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Shipping information

Packaging, type	Hard case
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Shipping information

- Hard transport case
 - Infrared camera
 - Battery (inside camera)
 - Calibration certificate
 - Downloads brochure
 - FLIR Tools software
 - miniSD card, with SD card adapter
 - Power supply/charger with EU, UK, US and Australian plugs
 - Printed Getting Started Guide
 - Printed Important Information Guide
 - Service & training brochure
 - USB cable
 - User documentation CD-ROM
 - Warranty extension card
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Optional Accessories

- T910737 Memory card micro-SD with adapters
 - T910423 USB cable Std A <-> Mini-B
 - T910711 Power supply/charger with EU, UK, US and AU plugs
 - T197619 Hard transport case for ix
 - T197410 Battery
 - T911093 Tool belt
 - T198483 Pouch for FLIR ix series
 - T198482 Car charger
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Optional Software

- T198583 FLIR Tools+ (license only)
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T910737; Memory card micro-SD with adapters



General description

Micro-SD Card for data storage (e.g. images)

Technical data

Memory card, size	At least 2 GB
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Shipping information

- micro-SD
- Adapter to miniSD Card
- Adapter from miniSD Card to SD memory card

v1.03

1910423; USB cable Std A <-> Mini-B



General description

This cable is used to connect the infrared camera with a computer, using the USB protocol.

Technical data

Weight	60 g (2.1 oz.)
Cable length	1.8 m (5.9 ft.)
Connector	Standard USB-A to USB Mini-B

v1.02

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T910711; Power supply/charger with EU, UK, US and AU plugs



General description

Combined power supply & battery charger.

Technical data

AC operation	100–240 VAC, 50/60 Hz, output 5.0 VDC, 1.2 A
Power	6 W
Size (L × W × H)	69.2 × 43.3 × 29.8 mm (2.7 × 1.7 × 1.2 in.)
Cable length	1.8 m (5.9 ft.)

Shipping information

- Power supply/Battery charger
- EU, UK, US and Australian plugs

v1.02

T197619; Hard transport case for ix



General description

Hard transport case for FLIR ix and Extech ix

Technical data

Weight	1.69 kg (3.73 lb.)
Size (L × W × H)	390 × 330 × 120 mm (15.4 × 13.0 × 4.7 in.)
Color	Black

v1.0

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T197410; Battery



General description

High capacity battery for the IR camera.

Technical data

Battery type	Rechargeable Li Ion battery
Battery voltage	3.7 V
Battery capacity	2.2 Ah at +20°C (+68°F)
Battery note	Approximate lithium content: 0.7 g
Charging system	Battery is charged inside the camera
Charging temperature	0°C to +45°C (+32°F to +113°F)
Battery storage temperature range	−40°C to +70°C (−40°F to +158°F)

v1.03

T911093; Tool belt



General description

Tool belt for FLIR camera pouches.

Technical data

Weight	0.117 kg (0.26 lb.)
Length	1.44 m (4.7 ft.)
Color	Black

Shipping information

- Tool belt

EAN-13	4743254000384
UPC-12	845188003210

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T198483; Pouch for FLIR ix series



General description

Pouch, including shoulder strap, for FLIR ix series.

Technical data

Weight	0.100 kg (0.22 lb.), excluding shoulder strap
Color	Black

Shipping information

- Pouch
- Shoulder strap

EAN-13	4743254000810
UPC-12	845188004521

v1.03

T198482; Car charger



General description

This cable is used to power the infrared camera from the 12 V socket in a car.

Technical data

Voltage	Input: 12/24 V Output: 5 V
Cable length	1 m (3.3 ft.)
Color	Black

Shipping information

EAN-13	4743254000827
UPC-12	845188004545

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T198583; FLIR Tools+ (license only)



General description

Compared to FLIR Tools, FLIR Tools+ has the following features:

- Manual IR/Visual Image Grouping
- 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 - Microsoft Office 2007 (32bit), and 2010 (32bit) support
- 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.
- Microsoft Windows 7 (32- and 64-bit) and Windows 8 (32- and 64-bit)
- Camera update (applies to FLIR Ex, Kxx, Exx and T6xx series only).

Download

Download your copy of FLIR Tools+ here:

<http://support.flir.com/toolsplus>

Release notes

Version	FLIR Tools+ 4.0
New features	<ul style="list-style-type: none"> • --- News in 4.0: --- • 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.

Shipping information

- FLIR Tools+ scratchcard

System requirements

Operating system	<ul style="list-style-type: none"> • Windows XP, 32-bit • Windows Vista, 32-bit • Windows 7, 32-bit • Windows 7, 64-bit • Windows 8, 32-bit • Windows 8, 64-bit
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Optional Software

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System requirements

Software requirements

- Office 2007, 32-bit
- Office 2010, 32-bit
- Office 2013, 32-bit

v1.0

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Camera with built-in IR lens f=6,8 mm (i3 12,5°)
Camera with built-in IR lens f=6,8 mm (i5 17°)
Camera with built-in IR lens f=6,8 mm (i7 25°)

