

Technical Data

FLIR E8

Part number:

63903-0303

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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 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 also building applications.

Benefits

- Easy to use: The Flir Ex series cameras are fully automatic and focus-free with an intuitive interface for simple measurement in thermal, visual, or MSX mode.
- Compact and rugged: The Flir Ex series cameras' low weight of 0.575 kg and accessory belt pouch make them easy
 to bring along at all times. Their rugged design that can withstand a 2 m drop test 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 x 240 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.
Emissivity correction	Variable from 0.1 to 1.0

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Measurement analysis	Emissivity table of predefined metarials
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
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	3.7 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
EMC	 WEEE 2012/19/EC RoHs 2011/65/EC
	C-TickEN 61000-6-3
	 EN 61000-6-2 FCC 47 CFR Part 15 Class B
Encapsulation	IP 54 (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	0.575 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	Hard case
Infrared camera Hard transport case Battery (2x) USB cable Power supply/charger with EU, UK, US and Aus	etralian pluge

- Power supply/charger with EU, UK, US and Australian plugs Battery charger User documentation CD-ROM Printed documentation FLIR Tools download card

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Optional Accessories

- T911093 Tool belt
 T198528 Hard transport case FLIR Ex-series
 T198530 Battery
 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

Optional Software

T198583 FLIR Tools+ (license only)



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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	
		v1.02

T198528; Hard transport case FLIR Ex-series



General description

Hard transport case for FLIR Ex-series	
Technical data	
Weight	1.75 kg (3.86 lb.)
Size (L × W × H)	303 × 206 × 128 mm (11.9 × 18.1 × 5.0 in.)
Color	Black
Shipping information	
Packaging, weight	1.750 kg
Packaging, size	303 × 206 × 128 mm
EAN-13	4743254001022
UPC-12	845188004873



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T198530; 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	2.6 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)
Battery storage temperature range	-40°C to +70°C (-40°F to +158°F)

Shipping information

EAN-13	4743254001046
UPC-12	845188004897

T198531; Battery charger incl power supply



General description

Battery charger incl. power supply.

Technical data

90-264 VAC, 50/60 Hz, output 5.0 VDC, 2.1 A
10.5 W
58.0 × 38.0 × 31.0 mm (2.3 × 1.5 × 1.2 in.)
82.0 × 56.0 × 64.0 mm (3.2 × 2.2 × 2.5 in.)
1.2 m (3.9 ft.)

Shipping information

EAN-13	4743254001053
UPC-12	845188004903



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T198532; 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 4743254001060 UPC-12 845188004910

T198534; Power supply USB-micro



General description

90-264 VAC, 50/60 Hz, output 5.0 VDC, 2.1 A
10.5 W
58.0 × 38.0 × 31.0 mm (2.3 × 1.5 × 1.2 in.)
1.2 m (3.9 ft.)
4743254001084
845188004934



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T198529; Pouch FLIR Ex and ix series



General description

Pouch, including shoulder strap, for FLIR Ex and ix series.

Technical data

Size (L × W × H)	270.0 × 145.0 × 115.0 mm (10.6 × 5.7 × 4.5 in.)
Color	Black

Shipping information

- Pouch Shoulder strap

EAN-13	4743254001039
UPC-12	845188004880

T198533; USB cable Std A <-> Micro 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 Micro-B

Shinning information

Company and the company of the compa	
EAN-13	4743254001077
UPC-12	845188004927

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Optional Software

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T198583; FLIR Tools+ (license only)



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

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.
- 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+ 4.1
New features	 News in 4.1: 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.

Shipping information

FLIR Tools+ scratchcard

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Optional Software

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Operating system	 Windows XP, 32-bit Windows Vista, 32-bit Windows 7, 32-bit Windows 7, 64-bit Windows 8, 32-bit Windows 8, 64-bit 	
Software requirements	Office 2007, 32-bitOffice 2010, 32-bitOffice 2013, 32-bit	
		v1



