

# FLIR E6

## P/N: 63902-0202

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#### Disclaimer

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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.

- 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 x 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

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Image presentation modes	
Image modes	Thermal MSX, Thermal, Picture-in-Picture, Thermal blending, Digital camera.
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	$\pm 2^{\circ}$ C ( $\pm 3.6^{\circ}$ F) or $\pm 2^{\circ}$ of reading, for ambient temperature 10°C to 35°C ( $\pm 50^{\circ}$ F to 95°F) and object temperature above $\pm 0^{\circ}$ C ( $\pm 32^{\circ}$ 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
Data communication interfaces	included
Data communication interfaces Interfaces	USB Micro: Data transfer to and from PC and Mac device
	USB Micro: Data transfer to and from PC and
Interfaces	USB Micro: Data transfer to and from PC and
Power system	USB Micro: Data transfer to and from PC and Mac device
Power system Battery type	USB Micro: Data transfer to and from PC and Mac device  Rechargeable Li Ion battery
Power system Battery type Battery voltage	USB Micro: Data transfer to and from PC and Mac device  Rechargeable Li Ion battery  3.7 V  Approx. 4 hours at +25°C (+77°F) ambient
Power system  Battery type  Battery voltage  Battery operating time	USB Micro: Data transfer to and from PC and Mac device  Rechargeable Li Ion battery  3.7 V  Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use  Battery is charged inside the camera or in specific
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Power system  Battery type  Battery voltage  Battery operating time  Charging system  Charging time	USB Micro: Data transfer to and from PC and Mac device  Rechargeable Li Ion battery  3.7 V  Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use  Battery is charged inside the camera or in specific charger.  2.5 hours to 90% capacity in camera. 2 hours in charger.
Power system  Battery type  Battery voltage  Battery operating time  Charging system  Charging time  Power management	USB Micro: Data transfer to and from PC and Mac device  Rechargeable Li Ion battery  3.7 V  Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use  Battery is charged inside the camera or in specific charger.  2.5 hours to 90% capacity in camera. 2 hours in charger.  Automatic shut-down  AC adapter, 90–260 VAC input, 5 VDC output to
Power system  Battery type  Battery voltage  Battery operating time  Charging system  Charging time  Power management  AC operation	USB Micro: Data transfer to and from PC and Mac device  Rechargeable Li Ion battery  3.7 V  Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use  Battery is charged inside the camera or in specific charger.  2.5 hours to 90% capacity in camera. 2 hours in charger.  Automatic shut-down  AC adapter, 90–260 VAC input, 5 VDC output to
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Power system  Battery type  Battery voltage  Battery operating time  Charging system  Charging time  Power management  AC operation  Environmental data  Operating temperature range	USB Micro: Data transfer to and from PC and Mac device  Rechargeable Li Ion battery  3.7 V  Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use  Battery is charged inside the camera or in specific charger.  2.5 hours to 90% capacity in camera. 2 hours in charger.  Automatic shut-down  AC adapter, 90–260 VAC input, 5 VDC output to camera  -15°C to +50°C (+5°F to +122°F)

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Environmental data		
EMC	<ul> <li>WEEE 2012/19/EC</li> <li>RoHs 2011/65/EC</li> <li>C-Tick</li> <li>EN 61000-6-3</li> <li>EN 61000-6-2</li> <li>FCC 47 CFR Part 15 Class B</li> </ul>	
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 $(L \times W \times H)$	244 × 95 × 140 mm (9.6 × 3.7 × 5.5 in.)	
Color	Black and gray	

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Certifications	
Certification	UL, CSA, CE, PSE and CCC

Shipping information	
Packaging, type	Cardboard box
List of contents	Infrared camera Hard transport case Battery (inside camera) USB cable Power supply/charger with EU, UK, US and Australian plugs User documentation CD-ROM Printed documentation FLIR Tools download card
Packaging, weight	2.9 kg (6.4 lb.)
Packaging, size	385 × 165 × 315 mm (15.2 × 6.5 × 12.4 in.)
EAN-13	4743254001008
UPC-12	845188004958
Country of origin	Estonia

# Supplies & 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
- T198583; FLIR Tools+ (license only)

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