

FLIR E8

P/N: 63903-0303

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Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to exportquestions@flir.com with any auestions.



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	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

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Image presentation modes	
Image modes	Thermal MSX, Thermal, Picture-in-Picture,
mage modes	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 $\pm 2\%$ 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	
Storage of images File formats	Standard JPEG, 14-bit measurement data included
File formats	to the second se
File formats Data communication interfaces	USB Micro: Data transfer to and from PC and
Data communication interfaces Interfaces	USB Micro: Data transfer to and from PC and
Data communication interfaces Interfaces Power system	USB Micro: Data transfer to and from PC and Mac device
Data communication interfaces Interfaces Power system Battery type	USB Micro: Data transfer to and from PC and Mac device Rechargeable Li ion battery
File formats Data communication interfaces Interfaces Power system Battery type Battery voltage	USB Micro: Data transfer to and from PC and Mac device Rechargeable Li ion battery 3.6 V Approx. 4 hours at +25°C (+77°F) ambient
Data communication interfaces Interfaces Power system Battery type Battery voltage Battery operating time	USB Micro: Data transfer to and from PC and Mac device Rechargeable Li ion battery 3.6 V Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use Battery is charged inside the camera or in specific
File formats Data communication interfaces Interfaces Power system Battery type Battery voltage Battery operating time Charging system	USB Micro: Data transfer to and from PC and Mac device Rechargeable Li ion battery 3.6 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
File formats Data communication interfaces Interfaces 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 3.6 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.
File formats Data communication interfaces Interfaces 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 3.6 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
File formats Data communication interfaces Interfaces 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 3.6 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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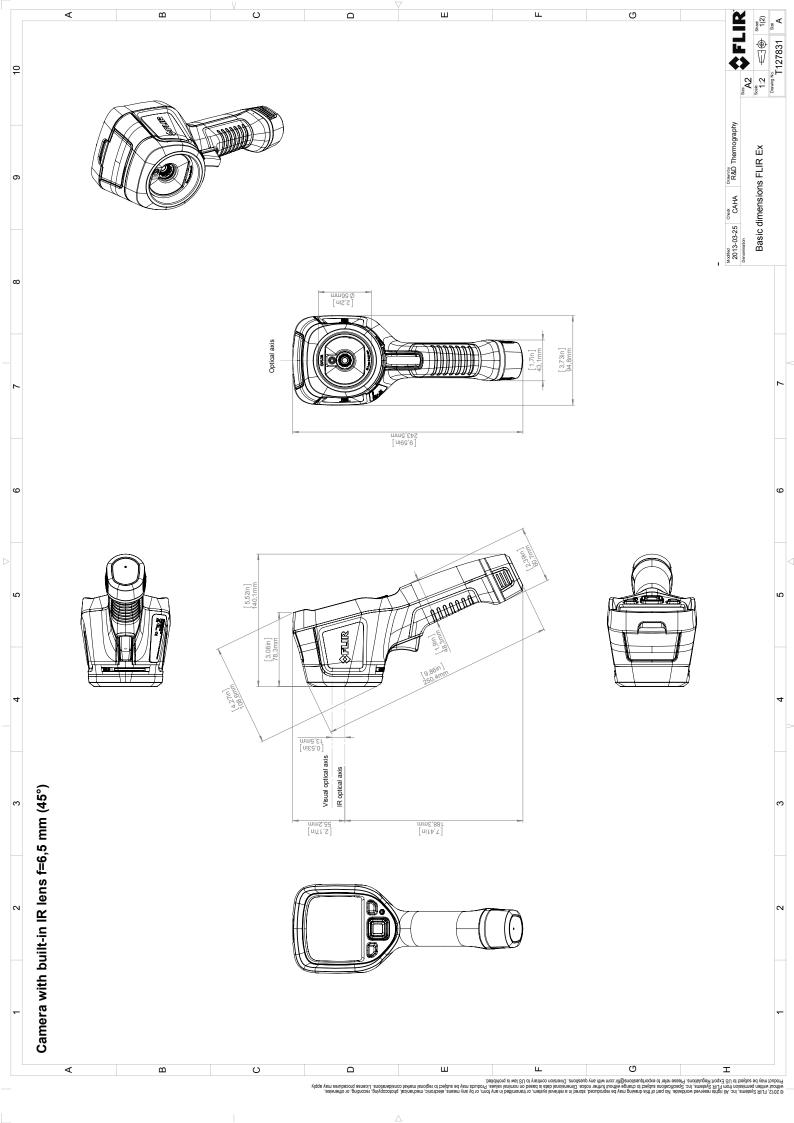
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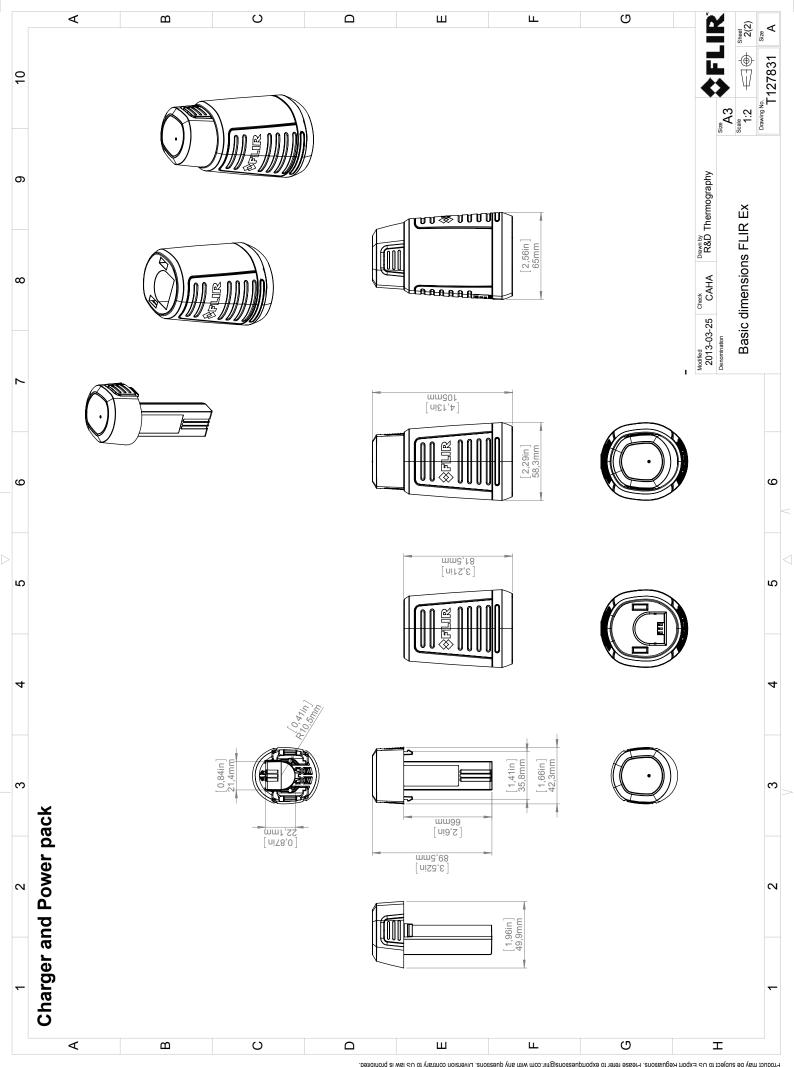
Environmental data	
EMC	 WEEE 2012/19/EC RoHs 2011/65/EC C-Tick EN 61000-6-3 EN 61000-6-2 FCC 47 CFR Part 15 Class B
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Drop	2 m (6.6 ft.)
Physical data	
Camera weight, incl. battery	0.575 kg (1.27 lb.)
Camera size $(L \times W \times H)$	244 × 95 × 140 mm (9.6 × 3.7 × 5.5 in.)
Color	Black and gray
Certifications	
Certification	UL, CSA, CE, PSE and CCC
Certification Shipping information	UL, CSA, CE, PSE and CCC
	UL, CSA, CE, PSE and CCC Cardboard box
Shipping information	
Shipping information Packaging, type	Cardboard box Infrared camera Hard transport case Battery (2x) USB cable Power supply/charger with EU, UK, US and Australian plugs Battery charger User documentation CD-ROM Printed documentation
Shipping information Packaging, type List of contents	Cardboard box Infrared camera Hard transport case Battery (2x) USB cable Power supply/charger with EU, UK, US and Australian plugs Battery charger User documentation CD-ROM Printed documentation FLIR Tools download card
Shipping information Packaging, type List of contents Packaging, weight	Cardboard box Infrared camera Hard transport case Battery (2x) USB cable Power supply/charger with EU, UK, US and Australian plugs Battery charger User documentation CD-ROM Printed documentation FLIR Tools download card
Shipping information Packaging, type List of contents Packaging, weight Packaging, weight	Cardboard box Infrared camera Hard transport case Battery (2x) USB cable Power supply/charger with EU, UK, US and Australian plugs Battery charger User documentation CD-ROM Printed documentation FLIR Tools download card 3.13 kg (6.9 lb.) 385 × 165 × 315 mm (15.2 × 6.5 × 12.4 in.)

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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AQ320035

CE Declaration of Conformity

This is to certify that the Systems listed below have been designed and manufactured to meet the requirements, as applicable, of the following EU-Directives and corresponding harmonising standards. The systems consequently meet the requirements for the CE-mark.

Directives:

Directive 2004/108/EC;

Electromagnetic Compatibility

Directive 2006/95/EC;

"Low voltage Directive" (Power Supply)

Standards:

Emission:

EN 61000-6-3;

Electro magnetic Compatibility

Generic standards - Emission

Immunity:

EN 61000-6-2;

Electro magnetic Compatibility;

Generic standards - Immunity

Safety (Power Supply):

EN 60950

(or other)

Safety of information technology

equipment

Systems:

FLIR EX

FLIR Systems AB Quality Assurance

Björn Svensson

Director