

FLIR E8

P/N: 63903-0303

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Website

http://www.flir.com

Customer support

http://support.flir.com

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.

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

1 (7) www.flir.com



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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 Local adaptation of units, language, date and time formats	Image presentation	
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 IR area on visual image Measurement Object temperature range -20°C to +250°C (-4°F to +482°F) Accuracy 22°C (to 3.6°F) or +22% of reading, for ambient temperature 10°C to 35°C (+50°F to 95°F) and object temperature above +0°C (+32°F) and object temperature Period of the product of temperature above +0°C (+32°F) and object temperature Set-up Color palettes Black and white, iron and rainbow Local adaptation of units, language, date and time formats Storage of images File formats Storag	Display	3.0 in. 320 × 240 color LCD
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 ±2°C (±3.6°F) or ±2% of reading, for ambient temperature above +0°C (+32°F) and object temperature above +0°C (+32°F) and	Image adjustment	Automatic/Manual
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) -20°C to 35°C (+50°F to 95°F) and object temperature above +0°C (+32°F) and object temperature above +0°C (+32°F) and object temperature above +0°C (+32°F) Measurement analysis Spotmeter Center spot Area Box with max/min. Emissivity correction Emissivity table form 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 Storage of images File formats Standard JPEG, 14-bit measurement data included Digital camera, resolution G40 × 480 Digital camera, FOV Data communication interfaces Interfaces USB Micro: Data transfer to and from PC and Mac device Power system Battery type Rechargeable Li ion battery 3.6 V Battery voltage 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	Image presentation modes	
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specific charger. Charging time 2.5 hours to 90% capacity in camera. 2 hours in	Battery operating time	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
. ,	Charging system	
	Charging time	·

2 (7) www.flir.com

FLIR E8



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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	 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
Shipping information	
Packaging, type	Cardboard box
List of contents	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
Packaging, weight	3.13 kg (6.9 lb.)
Packaging, size	385 × 165 × 315 mm (15.2 × 6.5 × 12.4 in.)
EAN-13	4743254001015
UPC-12	845188004965
Country of origin	Estonia

Supplies & accessories:

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

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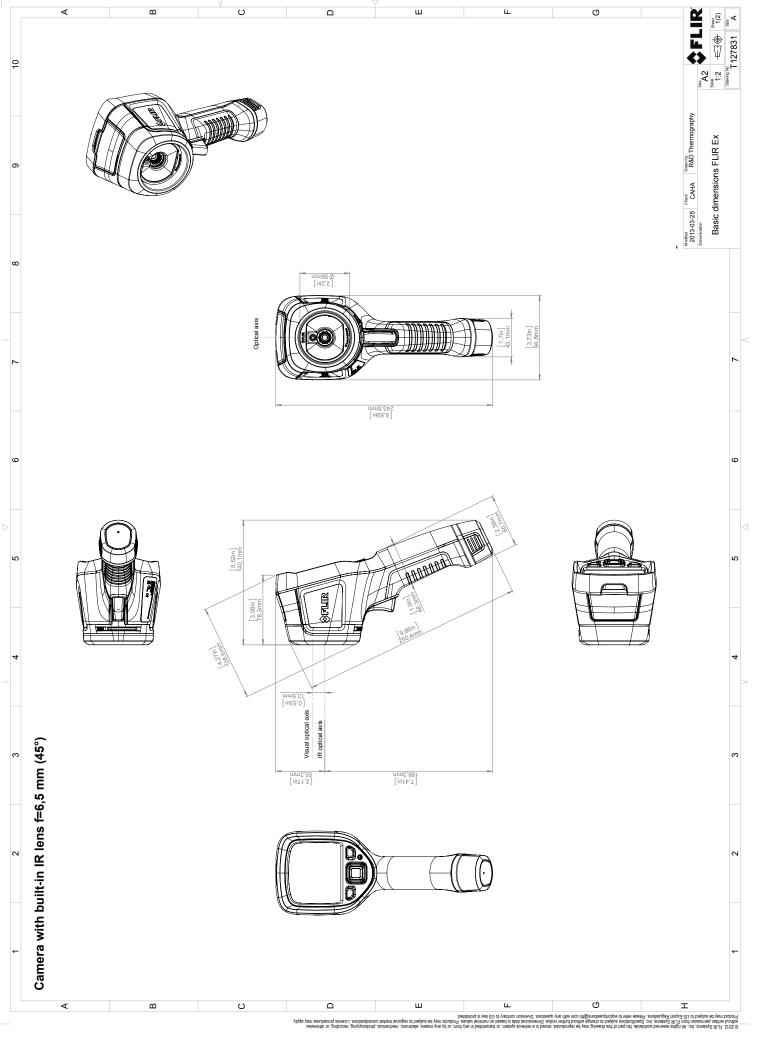
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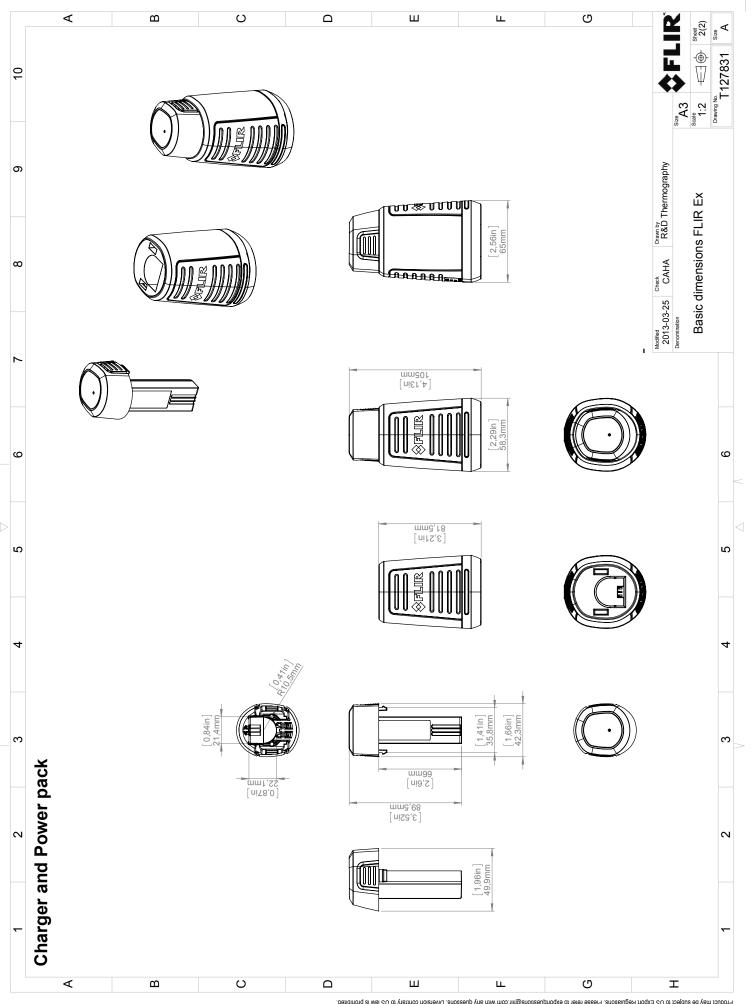
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- T198531; Battery charger incl power supply
- T198532; Car charger
- T198534; Power supply USB-micro
- T198529; Pouch FLIR Ex and ix series
- T198533; USB cable Std A <-> Micro B
- T198583; FLIR Tools+ (download card incl. license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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August 8, 2013

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 CEmark.

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