

## 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](mailto:exportquestions@flir.com) with any questions.



### 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.

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<b>Imaging and optical data</b>	
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
<b>Detector data</b>	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
<b>Image presentation</b>	
Display	3.0 in. 320 × 240 color LCD
Image adjustment	Automatic adjust/lock image
<b>Measurement</b>	
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)
<b>Measurement analysis</b>	
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
<b>Set-up</b>	
Color palettes	Black and white, iron and rainbow
Set-up commands	Local adaptation of units, language, date and time formats
<b>Storage of images</b>	
File formats	Standard JPEG, 14-bit measurement data included
<b>Data communication interfaces</b>	
Interfaces	USB Micro: Data transfer to and from PC and Mac device
<b>Power system</b>	
Battery type	Rechargeable Li Ion battery
Battery voltage	3.7 V

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<b>Power system</b>	
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

<b>Environmental data</b>	
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	<ul style="list-style-type: none"> <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)
Bump	25 g (IEC 60068-2-29)
Vibration	2 g (IEC 60068-2-6)
Drop	2 m (6.6 ft.)

<b>Physical data</b>	
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

<b>Certifications</b>	
Certification	UL, CSA, CE, PSE and CCC

<b>Shipping information</b>	
Packaging, type	Hard case
<ul style="list-style-type: none"> <li>• Infrared camera</li> <li>• Hard transport case</li> <li>• Battery (2x)</li> <li>• USB cable</li> <li>• Power supply/charger with EU, UK, US and Australian plugs</li> <li>• Battery charger</li> <li>• User documentation CD-ROM</li> <li>• Printed documentation</li> <li>• FLIR Tools download card</li> </ul>	
Packaging, weight	2.95 kg (6.50 lb.)
Packaging, size	303 × 206 × 128 mm (11.9 × 8.1 × 5.0 in.)
EAN-13	4743254001015
UPC-12	845188004965
Country of origin	Estonia

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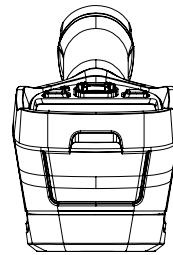
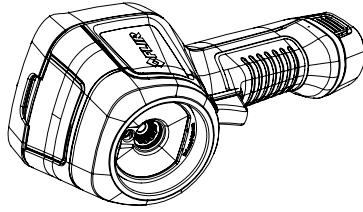
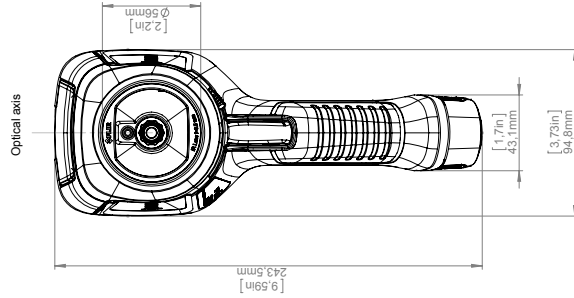
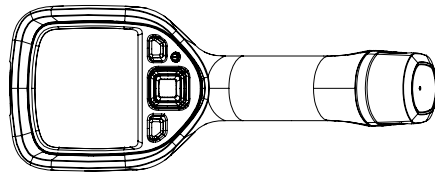
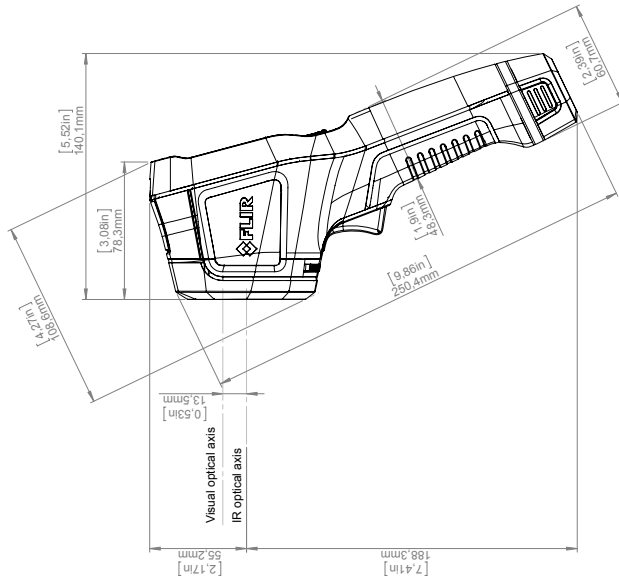
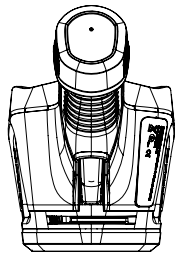
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**Supplies & accessories:**

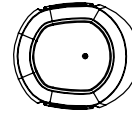
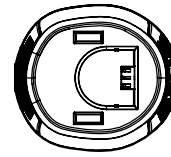
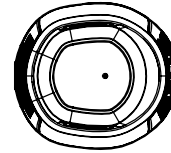
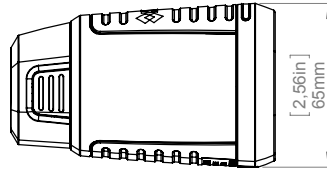
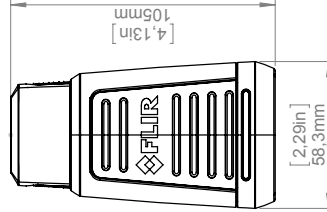
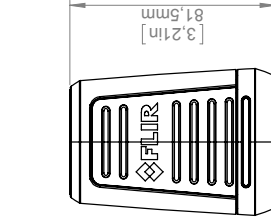
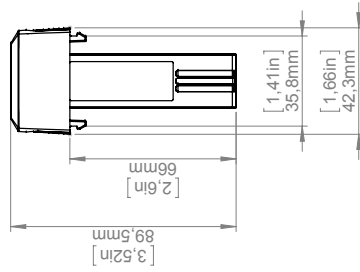
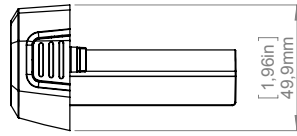
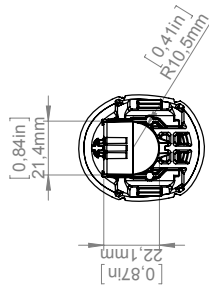
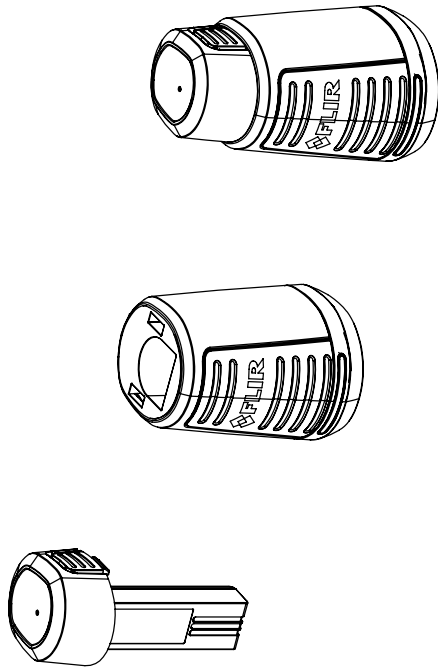
- T911093; Tool belt
- T198528; Hard transport case FLIR Ex-series
- T198530; Battery
- T198531; Battery charger incl power supply
- T198532; Car charger
- T198534; Power supply USB-micro
- T198529; Pouch FLIR Ex and ix series
- T198533; USB cable Std A <-> Micro B
- T198583; FLIR Tools+ (license only)

Camera with built-in IR lens f=6,5 mm (45°)



		Drawing No. <b>T127831</b>
Modified 2013-03-25 Description	Checked CAHA	Drawn by R&D Thermography
Sheet <b>A2</b>		Scale <b>1:2</b>
Basic dimensions FLIR Ex		Sheet <b>1(2)</b>
		Size <b>A</b>

# Charger and Power pack



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Modified 2013-03-25	Check CAHA	Drawn by R&D Thermography	Size A3	
Denomination	Basic dimensions FLIR Ex		Scale 1:2	
			Sheet 2(2)	
			Drawing No. T127831	Size A