

## P/N: 63902-0302

### Copyright

© 2019, FLIR Systems, Inc.

All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 63902-0302  
 Commit: 55613  
 Language:  
 Modified: 2019-02-19  
 Formatted: 2019-02-19

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### 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 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	240 × 180 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)	3.4 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

P/N: 63902-0302

© 2019, FLIR Systems, Inc.

#63902-0302; r. 55613;

<b>Image presentation</b>	
Display	3.0 in. 320 × 240 color LCD
Image adjustment	Automatic/Manual
<b>Image presentation modes</b>	
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
<b>Measurement</b>	
Object temperature range	-20°C to +250°C (-4°F to +482°F) 10°C to 550°C (50°F to +1022°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.
Isotherm	Above alarm, Below alarm
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>Digital camera</b>	
Digital camera, resolution	640 × 480
Digital camera, FOV	55° × 43°
<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	3.6 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.

**P/N: 63902-0302**

© 2019, FLIR Systems, Inc.  
#63902-0302; r. 55613;

<b>Power system</b>	
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>• EN 61000-6-2 (Immunity)</li> <li>• EN 61000-6-3 (Emission)</li> <li>• FCC 47 CFR Part 15 Class B (Emission)</li> <li>• RCM</li> </ul>
Hazardous substances	<ul style="list-style-type: none"> <li>• WEEE 2012/19/EU</li> <li>• RoHs 2011/65/EU</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.)
Safety	Camera: IEC/EN60950-1 Power supply: UL, CSA, CE, PSE, CCC, and SAA

<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>Shipping information</b>	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"> <li>• Infrared camera</li> <li>• Hard transport case</li> <li>• Battery (inside camera)</li> <li>• USB cable</li> <li>• Power supply/charger with EU, UK, US and Australian plugs</li> <li>• Printed documentation</li> </ul>
Packaging, weight	2.9 kg (6.4 lb.)
Packaging, size	385 × 165 × 315 mm (15.2 × 6.5 × 12.4 in.)
EAN-13	4743254003989
UPC-12	845188018764
Country of origin	Estonia

**Supplies & accessories:**

- T911093; Tool belt
- T911689ACC; Pouch for FLIR E-series
- T198528; Hard transport case FLIR Ex-series



## FLIR E6xt

---

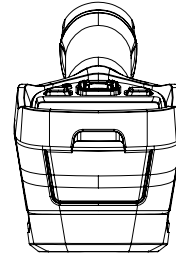
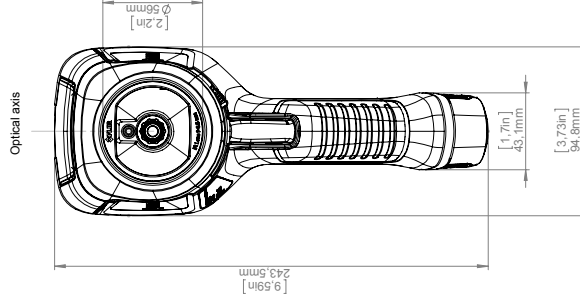
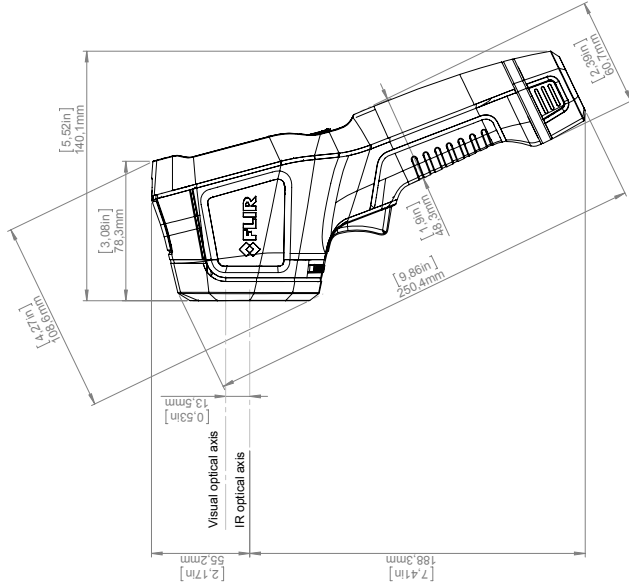
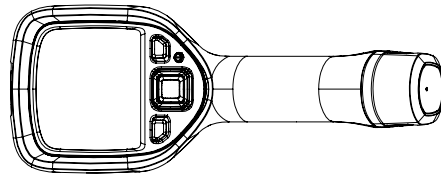
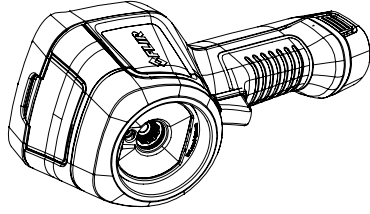
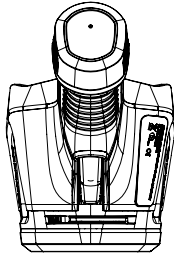
**P/N: 63902-0302**

© 2019, FLIR Systems, Inc.

#63902-0302; r. 55613;

- 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
- T199362ACC; Battery Li-ion 3.6 V, 2.6 Ah, 9.4 Wh
- T198583; FLIR Tools+ (download card incl. license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB
- INST-EW-0125; Extended Warranty 1 Year for A5, A15, E6, E8
- INST-EWGM-0120; Premium Service Package for A5, A15, E6, E8
- INST-GM-0120; General Maintenance Package for A5, A15, E6, E8

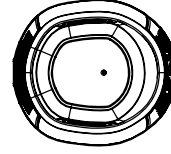
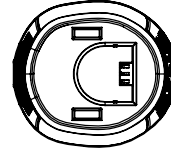
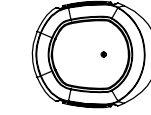
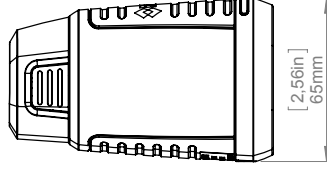
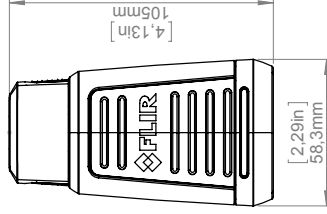
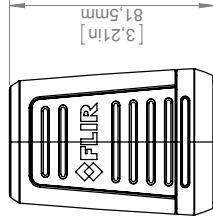
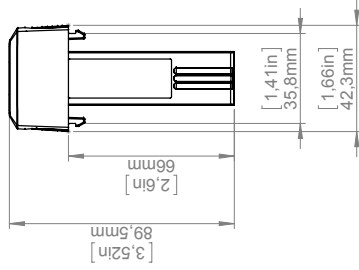
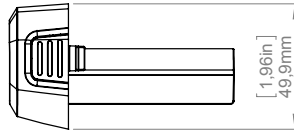
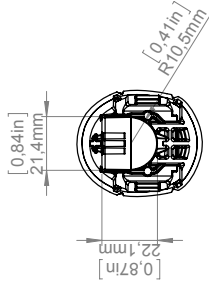
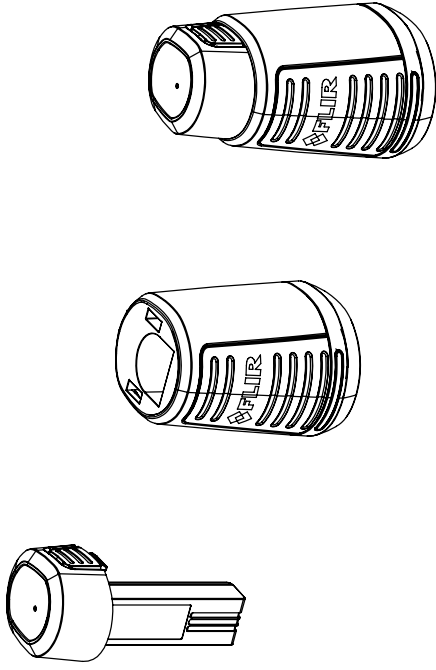
Camera with built-in IR lens f=6,5 mm (45°)



Modified	2018-03-25	Check	CAHA	Drawn by	R&D Thermography	
Drawn by	CAHA	Drawn by	R&D Thermography	Size	A2	
Dimension		Dimension		Scale	1:2	
Drawing No.	T127831	Sheet	1(2)	Size	A	

Basic dimensions FLIR Ex

# Charger and Power pack



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



The World's Sixth Sense™

February 24, 2017 Täby, Sweden

AQ320224

### CE Declaration of Conformity – EU Declaration of Conformity

Product: FLIR EX -series

Name and address of the manufacturer:

FLIR Systems AB  
PO Box 7376  
SE-187 15 Täby, Sweden

This declaration of conformity is issued under the sole responsibility of the manufacturer.

The object of the declaration: FLIR EX -series.

The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:

#### Directives:

Directive	2014/30/EU	Electromagnetic Compatibility
Directive	2014/35/EU	Low Voltage Directive (Power Supply)
Directive	2012/19/EU	Waste electrical and electric equipment
Directive:	2011/65/EU	RoHS
Directive	1999/5/EC	Radio and Telecommunications Terminal Equipment

#### Standards:

Emission:	EN 61000-6-3/A1:2011	Electromagnetic Compatibility Generic standards – Emission
Immunity:	EN 61000-6-2:2005	Electromagnetic Compatibility Generic standards – Immunity
Restricted substances (RoHS):	EN 50581:2012	Technical documentation
Radio:	ETSI EN 300 328 ETSI EN 301 893	Harmonized EN covering essential requirements of the R&TTE Directive
Safety (Power supply):	EN 60950	Information technology equipment

**FLIR Systems AB**  
Quality Assurance

Lea Dabiri  
Quality Manager