

P/N: 63908-0905

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

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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 | < 0.05°C (0.09°F) / < 50 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 |

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| Image presentation | |
|---|---|
| Display | 3.0 in. 320 × 240 color LCD |
| Image adjustment | Automatic/Manual |
| 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) 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) |
| Measurement analysis | |
| 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 |
| 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 |
| Digital camera | |
| Digital camera, resolution | 640 × 480 |
| Digital camera, FOV | 55° × 43° |
| Data communication interfaces | |
| Interfaces | USB Micro: Data transfer to and from PC and Mac device |
| Wi-Fi | Peer-to-peer (ad hoc) or infrastructure (network) |
| Radio | |
| Wi-Fi | <ul style="list-style-type: none"> • Standard: 802.11 b/g/n • Frequency range: <ul style="list-style-type: none"> ◦ 2400–2480 MHz ◦ 5150–5260 MHz • Max. output power: 15 dBm |



FLIR E8xt (incl. Wi-Fi)

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| Power system | |
|------------------------|--|
| 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. |
| 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 |

| 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 | <ul style="list-style-type: none">EN 61000-6-2 (Immunity)EN 61000-6-3 (Emission)FCC 47 CFR Part 15 Class B (Emission)RCM |
| Radio spectrum | <ul style="list-style-type: none">ETSI EN 300 328ETSI EN 301 893FCC 47 CFR Part 15 C, ERSS-247 Issue 2 |
| Hazardous substances | <ul style="list-style-type: none">WEEE 2012/19/EURoHs 2011/65/EU |
| 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 |

| Physical data | |
|------------------------------|---|
| 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 |

| Shipping information | |
|----------------------|--|
| Packaging, type | Cardboard box |
| List of contents | <ul style="list-style-type: none">Infrared cameraHard transport caseBattery (2x)USB cablePower supply/charger with EU, UK, US and Australian plugsBattery chargerPrinted documentation |



FLIR E8xt (incl. Wi-Fi)

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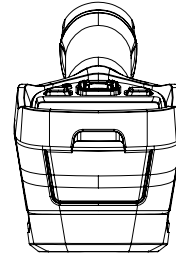
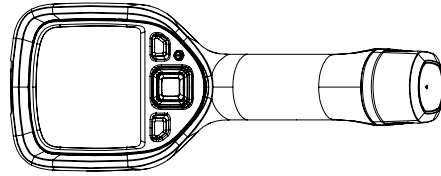
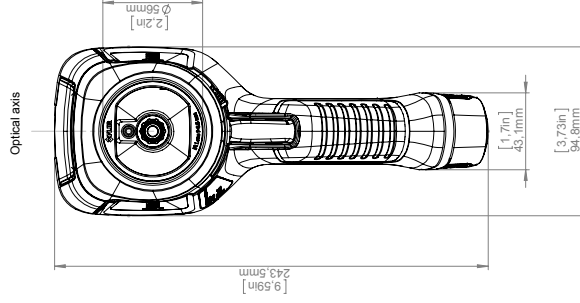
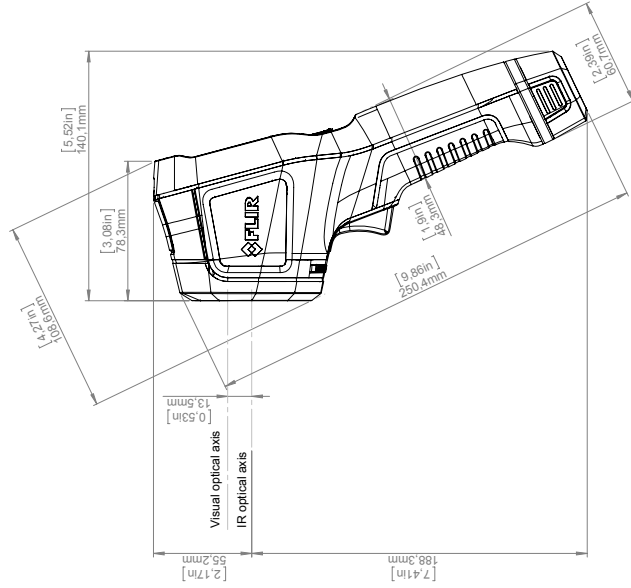
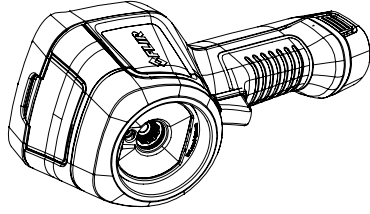
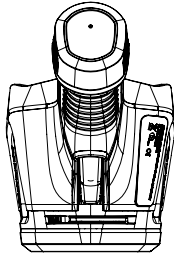
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| Shipping information | |
|----------------------|--|
| Packaging, weight | 3.13 kg (6.9 lb.) |
| Packaging, size | 385 × 165 × 315 mm (15.2 × 6.5 × 12.4 in.) |
| EAN-13 | 4743254004023 |
| UPC-12 | 845188018801 |
| Country of origin | Estonia |

Supplies & accessories:

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

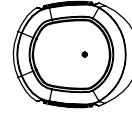
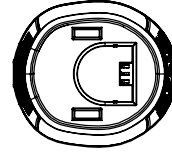
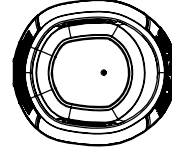
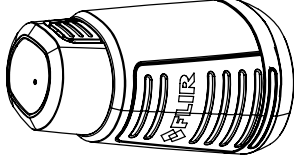
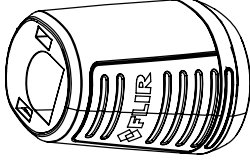
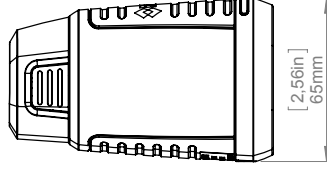
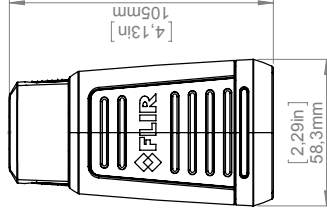
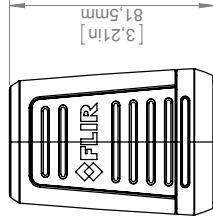
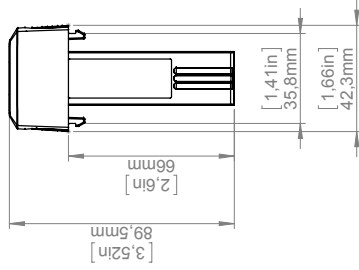
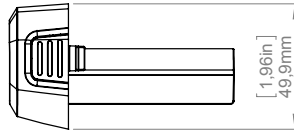
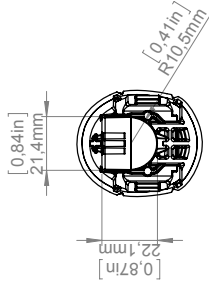
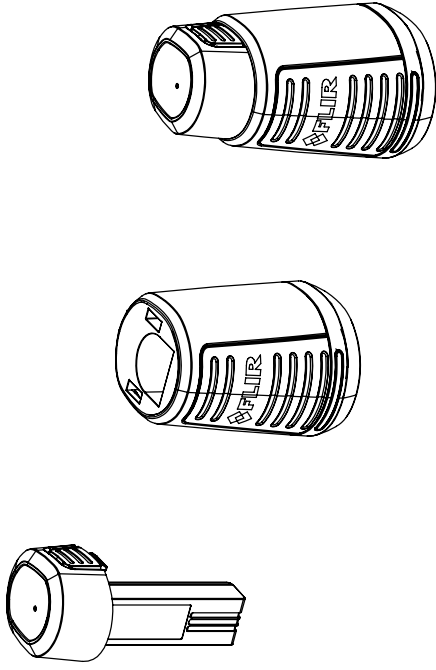


| | | | | | | |
|--------------|--------------------------|-------|------|----------|------------------|---|
| Modified | 2018-03-25 | Check | CAHA | Drawn by | R&D Thermography | |
| Denomination | Basic dimensions FLIR Ex | | | | | |
| Size | A2 | Sheet | 12 | Sheet | 1(2) | |
| Drawing No. | T127831 | | | | Size | A |



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Charger and Power pack



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