



# FLIR E4 (incl. Wi-Fi)

**P/N: 63906-0604**

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**Website**

<http://www.flir.com>

**Customer support**

<http://support.flir.com>

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|   |  |
|---|--|
| <b>General description</b>  |  |
| 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:   |  |
| <ul style="list-style-type: none"><li>• 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.</li><li>• 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.</li><li>• Ground breaking affordability: The FLIR Ex series cameras are the most affordable infrared cameras on the market.</li></ul> |  |
| <b>Imaging and optical data</b>   |  |
| IR resolution   | 80 × 60 pixels                                   |
| Thermal sensitivity/NETD  | <0.15°C (0.27°F) / <150 mK                       |
| Field of view (FOV)   | 45° × 34°  |
| Minimum focus distance  | 0.5 m (1.6 ft.)                                  |
| Spatial resolution (IFOV)   | 10.3 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                      |



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| <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)  |
| 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/below/interval                               |
| 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 |
| Wi-Fi                                | Peer-to-peer (ad hoc) or infrastructure (network)      |

  

| <b>Radio</b> |  |
|--------------|--|
| Wi-Fi        | <ul style="list-style-type: none"><li>• Standard: 802.11 b/g/n</li><li>• Frequency range:<ul style="list-style-type: none"><li>◦ 2400–2480 MHz</li><li>◦ 5150–5260 MHz</li></ul></li><li>• Max. output power: 15 dBm</li></ul> |

  

| <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.         |



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| <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>• 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>   |
| Radio spectrum                   | <ul style="list-style-type: none"><li>• ETSI EN 300 328</li><li>• FCC 47 CSR Part 15</li><li>• RSS-247 Issue 2</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.)   |
| <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                  | 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                           | 4743254002869   |
| UPC-12                           | 845188014117  |
| Country of origin                | Estonia   |