

# FLIR C3-X Compact Thermal Imaging Camera



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## SPECIFICATIONS

General

4 hours

Operating Lifetime (hours):

Cx Series

Model Number:

Field of View (°):

|                                                                                                                                                                             |                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| 53.6°                                                                                                                                                                       |                                     |
| <b>Contents of Kit:</b><br>Thermal Camera, USB Cable, Wrist Strap Lanyard, Carrying Pouch, Printed Documentation                                                            |                                     |
| <b>Operating Modes:</b><br>Infrared image, Visual image, MSX, Picture-in-picture (IR area on visual image)                                                                  |                                     |
| <b>Measurement Tools:</b><br>Spotmeter; box with min./max                                                                                                                   |                                     |
| <b>Standard Measurement Temperature (°C):</b><br>-20 to 300°C (-4 to 572°F)                                                                                                 |                                     |
| Thermal                                                                                                                                                                     | <b>Spectrum:</b>                    |
| <b>Physical &amp; Mechanical Properties</b>                                                                                                                                 |                                     |
| <b>Dimensions (mm):</b><br>138 × 84 × 24 mm (5.4 × 3.3 × 0.94 in)                                                                                                           |                                     |
| 0.19 kg (0.42 lb)                                                                                                                                                           | <b>Weight (g):</b>                  |
| <b>Accuracy (%):</b><br>0 to 100°C (32 to 212°F): ±3°C (±5.5°F); 100 to 300°C (212 to 572°F): ±3% [ambient temp. 15 to 35°C (59 to 95°F) and object temp. above 0°C (32°F)] |                                     |
| 2 m (6.6 ft)                                                                                                                                                                | <b>Drop Test:</b>                   |
| <b>Optical Properties</b>                                                                                                                                                   |                                     |
| 5 MP                                                                                                                                                                        | <b>Resolution:</b>                  |
| 8–14 μm                                                                                                                                                                     | <b>Spectral Range:</b>              |
| Focus free                                                                                                                                                                  | <b>Focus Range (mm):</b>            |
| Iron, Gray, Rainbow, Rainbow HC                                                                                                                                             | <b>Color:</b>                       |
| <b>Performance</b>                                                                                                                                                          |                                     |
| 128 × 96 (12,288 pixels)                                                                                                                                                    | <b>Thermal Resolution (Pixels):</b> |
| Thermal: 0.1 m (0.32 ft), MSX: 0.3 m (0.98 ft)                                                                                                                              | <b>Minimum Focus Distance (m):</b>  |
| <b>Electrical</b>                                                                                                                                                           |                                     |
| 8.7 Hz                                                                                                                                                                      | <b>Frequency (Hz):</b>              |
| <70 mK                                                                                                                                                                      | <b>Sensitivity (W<sup>2</sup>):</b> |
| 120                                                                                                                                                                         | <b>Charging Time (minutes):</b>     |
| Rechargeable built-in Lithium ion battery                                                                                                                                   | <b>Battery Type:</b>                |
| <b>Hardware &amp; Interface Connectivity</b>                                                                                                                                |                                     |
| USB-C (1 A)                                                                                                                                                                 | <b>Connector:</b>                   |
| <b>Threading &amp; Mounting</b>                                                                                                                                             |                                     |
| Tripod: UNC ¼"-20 (built-in)                                                                                                                                                | <b>Mount:</b>                       |
| <b>Environmental &amp; Durability Factors</b>                                                                                                                               |                                     |
| -10 to 50°C (14 to 122°F)                                                                                                                                                   | <b>Operating Temperature (°C):</b>  |
| -40 to 70°C (-40 to 158°F)                                                                                                                                                  | <b>Storage Temperature (°C):</b>    |
| Camera housing and lens: IP54 rated (IEC 60529)                                                                                                                             | <b>Environmental Rating:</b>        |
| <b>Additional Info</b>                                                                                                                                                      |                                     |
| Emissivity, matte/semi-matte/semi-gloss + custom value, Reflected apparent temperature, Atmospheric compensation                                                            | <b>Measurement Correction:</b>      |
| <b>Regulatory Compliance</b>                                                                                                                                                |                                     |
| <a href="#">View</a>                                                                                                                                                        | <b>Certificate of Conformance:</b>  |

## PRODUCT DETAILS

- Compact, Lightweight Thermal Imagers for Field Use
- Touchscreen Interface with Built-in Flashlight and Point-and-Shoot Operation
- Durable, Drop-Tested, and Waterproof Design
- Wi-Fi for fast Sharing and Reporting

The FLIR CxSeries delivers compact, easy-to-use thermal imaging for industrial inspections, maintenance, and troubleshooting. With touchscreen operation, built-in flashlights, and rugged, drop-tested designs, these cameras are built for durability and fast on-the-job use. The C3-X (128 × 96 resolution) offers an affordable option for quick diagnostics and basic troubleshooting, while the C5 (160 × 120 resolution) provides greater image detail and higher temperature range for more advanced inspections. Both models feature built-in Wi-Fi for quick image sharing and reporting directly from the field. Lightweight, portable, and simple to operate, the CxSeries is ideal for technicians who need reliable thermal imaging that fits easily into daily workflows.

| Model               | C3-X                       | C5                         |
|---------------------|----------------------------|----------------------------|
| Resolution          | 128 × 96 (12,288 pixel)    | 160 x 120 (19,200 pixel)   |
| Temp Range          | -20 to 300°C (-4 to 572°F) | -20 to 400°C (-4 to 752°F) |
| Thermal sensitivity | <0.07°C                    | <0.07°C                    |

**Accuracy:** At ambient temp. 15°C to 35°C (59°F to 95°F) and object temp. above 0°C (32°F), 0°C to 100°C (32°F to 212°F): ±3°C (±5.5°F); 100°C to 300°C (212°F to 572°F): ±3%