

# FLIR Cx5™

## Hazardous Location-Rated Thermal Camera



[www.flir.com/Cx5](http://www.flir.com/Cx5)

### INSPECT SAFELY IN EXPLOSIVE ENVIRONMENTS

Improve plant performance in a safe and compliant manner in certain types of explosive environments

- Accurately measure temperatures of nearby targets with the 160 × 120 (19,200 pixels) thermal camera
- Instantly locate temperature issues and improve thermal image understanding with FLIR MSX®, which adds visible light details to thermal images and embosses them onto the full thermal image
- 1-Touch level/span saves time on manual thermal adjustments by modifying the level and span with a single touch

### RUGGED, RELIABLE, AND CERTIFIED

The FLIR Cx5 Thermal Imaging Camera is proven to keep operators safe when inspecting their equipment and facility

- Conforms to restricted breathing and dust protection standards
- Eliminate the need for hot work permits in hazardous locations due to gas, vapor, and dust
- Carry the compact Cx5 in your pocket, keeping it out of your way while climbing access ladders
- See into dark, difficult-to-reach areas with the help of an LED worklight that is fully operational behind an impact-resistant lens

### UPLOAD AND SHARE DATA INSTANTLY

Wirelessly upload and share data with colleagues to communicate potential issues faster

- Upload images directly to the FLIR Ignite™ cloud to safely and securely store, transfer, and back-up images
- Synchronize the camera with FLIR Thermal Studio software for the most powerful thermography analysis and report generation capability
- Identify and describe potential issues by adding annotations to images and reports

## SPECIFICATIONS

| Overview                 |                                                                                                                                                                                                      | Image Storage & Streaming    |                                                                                                                                               |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| IR sensor                | 160 × 120 (19,200 pixels)                                                                                                                                                                            | Storage media                | Internal memory and onboard FLIR Ignite cloud connectivity (with Wi-Fi)                                                                       |
| Thermal sensitivity/NETD | <70 mK                                                                                                                                                                                               | Image storage capacity       | >5000 images                                                                                                                                  |
| Field of view (FOV)      | 54° × 42°                                                                                                                                                                                            | Image file format            | Standard JPEG, 14-bit measurement data included                                                                                               |
| Minimum focus distance   | <ul style="list-style-type: none"> <li>Thermal: 0.1 m (3.94 in)</li> <li>MSX®: 0.3 m (11.8 in)</li> </ul>                                                                                            | Communication & Connectivity |                                                                                                                                               |
| Image frequency          | 8.7 Hz                                                                                                                                                                                               | Wi-Fi®                       | 802.11 a/ac/b/g/n (2.4 and 5 GHz)                                                                                                             |
| Focus                    | Focus free                                                                                                                                                                                           | USB                          | USB 2.0, Type-C connector                                                                                                                     |
| Spectral range           | 8–14 µm                                                                                                                                                                                              | Bluetooth®                   | PAN                                                                                                                                           |
| Screen size              | 3.5 in                                                                                                                                                                                               | Image upload                 | Directly upload images to FLIR Ignite cloud library and services                                                                              |
| Visual camera            | 5 MP                                                                                                                                                                                                 | Additional Information       |                                                                                                                                               |
| Digital camera focus     | Fixed                                                                                                                                                                                                | Dimensions (L x W x H)       | 9.3 x 3.9 x 3.7 in (235 x 100 x 95 mm)                                                                                                        |
| Image Presentation       |                                                                                                                                                                                                      | Battery type                 | Rechargeable built-in Lithium ion battery                                                                                                     |
| Image adjustment         | <ul style="list-style-type: none"> <li>Automatic level and span</li> <li>Manual level and span</li> <li>1-Touch level and span</li> </ul>                                                            | Battery operating time       | 4 hours                                                                                                                                       |
| Image modes              | <ul style="list-style-type: none"> <li>Infrared image</li> <li>Visual image</li> <li>MSX (Embossed visual details on thermal image)</li> <li>Picture-in-picture (IR area on visual image)</li> </ul> | Charging system              | USB-C (1 A)                                                                                                                                   |
| Gallery                  | Thumbnails and custom folder structure                                                                                                                                                               | Charging time                | 2 hours                                                                                                                                       |
| Color palettes           | <ul style="list-style-type: none"> <li>Iron</li> <li>Gray</li> <li>Rainbow</li> <li>Arctic</li> <li>Lava</li> <li>Rainbow HC</li> </ul>                                                              | External power operation     | 5 V, USB-C                                                                                                                                    |
| Screen rotation          | Yes                                                                                                                                                                                                  | Operating temperature range  | -10°C to 50°C (14°F to 122°F)                                                                                                                 |
| Touchscreen              | Capacitive touch                                                                                                                                                                                     | Storage temperature range    | -40°C to 70°C (-40°F to 158°F)                                                                                                                |
| Measurement & Analysis   |                                                                                                                                                                                                      | Encapsulation                | Camera housing and lens: IP54 (IEC 60529)                                                                                                     |
| Object temperature range | -20 to 400°C (-4 to 752°F)                                                                                                                                                                           | Drop test                    | Designed for 2 m (6.6 ft)                                                                                                                     |
| Accuracy                 | At ambient temp. 15 to 35°C (59 to 95°F) and object temp. above 0°C (32°F)<br>0 to 100°C (32 to 212°F): ±5°C (±9°F)<br>100 to 400°C (212 to 752°F): ±5%                                              | Weight (including battery)   | 0.69 kg (1.52 lb)                                                                                                                             |
| Measurement functions    | <ul style="list-style-type: none"> <li>Spot</li> <li>Box with max./min.</li> </ul>                                                                                                                   | Size (L x W x H)             | 168 mm × 112 mm × 42 mm (6.6 in × 4.4 in × 1.7 in)                                                                                            |
| Measurement correction   | <ul style="list-style-type: none"> <li>Emissivity; matt/semi-matt/semi-gloss + custom value</li> <li>Reflected apparent temperature</li> <li>Atmospheric compensation</li> </ul>                     | Tripod mounting (built-in)   | UNC ¼"-20                                                                                                                                     |
|                          |                                                                                                                                                                                                      | *Certifications              | EN EIC 60079-0: 2018      IEC 60079-15: 2017<br>EN EIC 60079-31: 2014      IEC 60079-0: 2017<br>EN EIC 60079-15: 2019      IEC 60079-31: 2013 |

\*For complete certification documentation, please visit [flir.custhelp.com](http://flir.custhelp.com)

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