



## COMPACT THERMAL CAMERA

# FLIR C3-X



The FLIR C3-X compact thermal camera is an affordable, professional inspection tool for building, facilities maintenance, HVAC/R, electrical repair, and other troubleshooting applications. Featuring a thermal camera, visual inspection camera, and LED flashlight, the powerful FLIR C3-X makes it easy to identify hidden problems. Built-in FLIR Ignite™ cloud connectivity allows direct data transfer, storage, and backup, so images are always available on all your devices. The 3.5-inch integrated touchscreen is simple to use, so you can quickly inspect, document repairs, and share evidence with customers. With the FLIR C3-X in your pocket, you'll be ready anytime to find hot fuses, air leaks, plumbing issues, and more.



### IDENTIFY AND TROUBLESHOOT

Quickly find hidden faults and reduce diagnostic time with this powerful, professional tool

- Identify and troubleshoot problems faster with the 128 × 96 (12,288 pixels) true thermal imager and 5-megapixel visual camera
- Instantly recognize the location of a temperature issue with FLIR MSX® (Multi-Spectral Dynamic Imaging), which extracts scene details from the built-in visual camera and embosses them onto the full thermal image
- See into dark, difficult-to-reach areas with the help of the bright LED flashlight



### DOCUMENT AND SHARE

Upload images and data quickly, then communicate findings easily with customers

- Upload directly to FLIR Ignite to conveniently store, organize, and back-up images
- Identify and describe potential issues by adding annotations to images
- Share findings easily and securely by sending a password-protected link via email
- Provide customers professional reports with images that document problems and repairs using preferred software, such as FLIR Thermal Studio



### RUGGED, RELIABLE, COMPACT

Take the portable, affordable C3-X with you to every job

- IP54 enclosure provides a high level of protection against dust and water
- Designed to withstand a 2 m (6.6 ft) drop
- Carry the compact C3-X in your pocket or stow easily in a crowded tool bag

## SPECIFICATIONS

| Overview                 | C3-X   |
|--------------------------|--|
| IR sensor                | 128 × 96 (12,288 pixels)   |
| Thermal sensitivity/NETD | <70 mK   |
| Field of view (FOV)      | 53.6°  |
| Minimum focus distance   | Thermal: 0.1 m (3.94 in)<br>MSX®: 0.3 m (11.8 in)  |
| Image frequency          | 8.7 Hz   |
| Focus                    | Focus free   |
| Spectral range           | 8–14 μm  |
| Screen size              | 3.5 in   |
| Digital camera           | 5 MP   |
| Digital camera focus     | Fixed  |
| Image Presentation       |  |
| Image adjustment         | Automatic level and span<br>Manual level and span  |
| Image modes              | Infrared image<br>Visual image<br>MSX (Embossed visual details on thermal image)<br>Picture-in-picture (IR area on visual image)                         |
| Gallery                  | Thumbnails and custom folder structure   |
| Color palettes           | Iron<br>Gray<br>Rainbow<br>Rainbow HC  |
| Auto orientation         | Yes  |
| Touch screen             | Capacitive touch   |
| Measurement & Analysis   |  |
| Object temperature range | -20 to 300°C (-4 to 572°F)   |
| Accuracy                 | 0 to 100°C (32 to 212°F): ±3°C (±5.5°F)<br>100 to 300°C (212 to 572°F): ±3%<br>[Ambient temp. 15 to 35°C (59 to 95°F) and object temp. above 0°C (32°F)] |
| Measurement functions    | Spot<br>Box with max./min.   |
| Measurement correction   | Emissivity; matt/semi-matt/semi-gloss + custom value<br>Reflected apparent temperature<br>Atmospheric compensation                                       |

| Image Storage                | C3-X  |
|------------------------------|---|
| Storage media                | Internal memory and onboard FLIR Ignite cloud connectivity (with Wi-Fi) |
| Image storage capacity       | >5000 images  |
| Image file format            | Standard JPEG, 14-bit measurement data included                         |
| Communication & Connectivity |   |
| Wi-Fi                        | 802.11 a/ac/b/g/n (2.4 and 5 GHz)                                       |
| USB                          | USB 2.0, Type-C connector   |
| Bluetooth®                   | PAN   |
| Image upload                 | Directly upload images to FLIR Ignite cloud library and services        |
| Additional Information       |   |
| Battery type                 | Rechargeable built-in Lithium ion battery                               |
| Battery operating time       | 4 hours   |
| Charging system              | USB-C (1 A)   |
| Charging time                | 2 hours   |
| External power operation     | 5 V, USB-C  |
| Operating temperature range  | -10 to 50°C (14 to 122°F)   |
| Storage temperature range    | -40 to 70°C (-40 to 158°F)  |
| Encapsulation                | Camera housing and lens: IP54 (IEC 60529)                               |
| Drop test                    | Designed for 2 m (6.6 ft)   |
| Weight (including battery)   | 0.19 kg (0.42 lb)   |
| Size (L × W × H)             | 138 × 84 × 24 mm (5.4 × 3.3 × 0.94 in)                                  |
| Tripod mounting (built-in)   | UNC ¼"-20   |



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