

Product Datasheet - Technical Specifications



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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) 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 Manual level and span
Image modes	Infrared image Visual image MSX (Embossed visual details on thermal image) Picture-in-picture (IR area on visual image)
Gallery	Thumbnails and custom folder structure
Color palettes	Iron Gray Rainbow 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) 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)]
Measurement functions	Spot Box with max./min.
Measurement correction	Emissivity; matt/semi-matt/semi-gloss + custom value Reflected apparent temperature Atmospheric compensation

Specifications are subject to change without notice. For the most

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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20-0997-INS-PPM-C3-X-Datasheet - US Letter



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