TELEDYNE FLIR

FLIR Cx5™

Hazardous Location-Rated Thermal Camera







The FLIR Cx5 is a thermal camera made to provide safer inspections in hazardous locations. This thermal imager is certified for use in many explosive environments, eliminating the need to acquire hot work permits while making T-Class surveys quick and easy. The FLIR Cx5 is an affordable thermography tool for most industries with explosive atmospheres including chemical, oil and gas, and wastewater treatment facilities. The 3.5-inch touchscreen interface is simple to use, and the 160 × 120 thermal resolution gives you accurate temperature measurement of nearby targets. Built-in FLIR Ignite™ cloud service provides direct data transfer, storage, and backup, so images are always available and easy to share. With the FLIR Cx5 in your toolbox, you'll always be ready to investigate mechanical and electrical equipment around your production site.

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	
IR sensor	160 × 120 (19,200 pixels)
Thermal sensitivity/NETD	<70 mK
Field of view (FOV)	54° × 42°
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
Visual camera	5 MP
Digital camera focus	Fixed
Image Presentation	
Image adjustment	• Automatic level and span • Manual level and span • 1-Touch 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 • Arctic • Lava • Rainbow HC
Screen rotation	Yes
Touchscreen	Capacitive touch
Measurement & Analysis	
Object temperature range	-20 to 400°C (-4 to 752°F)
Accuracy	At ambient temp. 15 to 35°C (59 to 95°F) and object temp. above 0°C (32°F) 0 to 100°C (32 to 212°F): ±5°C (±9°F) 100 to 400°C (212 to 752°F): ±5%
Measurement functions	• Spot • Box with max./min.
Measurement correction	• Emissivity; matt/semi-matt/semi-gloss + custom value • Reflected apparent temperature • Atmospheric compensation

Image Storage & Streaming	
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	
Dimensions (L x W x H)	9.3 x 3.9 x 3.7 in (235 x 100 x 95 mm)
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°C to 50°C (14°F to 122°F)
Storage temperature range	-40°C to 70°C (-40°F to 158°F)
Encapsulation	Camera housing and lens: IP54 (IEC 60529)
Drop test	Designed for 2 m (6.6 ft)
Weight (including battery)	0.69 kg (1.52 lb)
Size (L × W × H)	168 mm × 112 mm × 42 mm (6.6 in × 4.4 in × 1.7 in)
Tripod mounting (built-in)	UNC ¼"-20
*Certifications	EN EIC 60079-0: 2018 EN EIC 60079-31: 2014 EN EIC 60079-15: 2019 IEC 60079-15: 2017 IEC 60079-0: 2017 IEC 60079-31: 2013

*For complete certification documentation, please visit flir.custhelp.com

For more information contact: **Sales@TeledyneFLIR.com**
or to find your local support number, visit: **flir.com/contactsupport**

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