

FLIR C3-X Compact Thermal Imaging Camera



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Measurement Tools:

Spotmeter; box with min./max.

Standard Measurement Temperature (°C):

-20 to 300°C (-4 to 572°F)

Spectrum:

Thermal

General

Operating Lifetime (hours):

4 hours

Model Number:

Cx Series

Field of View (°):
53.6°

Contents of Kit:
Thermal Camera, USB Cable, Wrist Strap Lanyard,
Carrying Pouch, Printed Documentation

Operating Modes:
Infrared image, Visual image, MSX, Picture-in-picture
(IR area on visual image)

Physical & Mechanical Properties

Dimensions (mm):
138 × 84 × 24 mm (5.4 × 3.3 × 0.94 in)

Weight (g):
0.19 kg (0.42 lb)

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)]

Drop Test:
2 m (6.6 ft)

Optical Properties

Resolution:
5 MP

Spectral Range:
8–14 μm

Focus Range (mm):
Focus free

Color:
Iron, Gray, Rainbow, Rainbow HC

Performance

Thermal Resolution (Pixels):
128 × 96 (12,288 pixels)

Minimum Focus Distance (m):
Thermal: 0.1 m (0.32 ft), MSX: 0.3 m (0.98 ft)

Electrical

Frequency (Hz):
8.7 Hz

Sensitivity (W²):
<70 mK

Charging Time (minutes):
120

Battery Type:
Rechargeable built-in Lithium ion battery

Hardware & Interface Connectivity

Connector:
USB-C (1 A)

Threading & Mounting

Mount:
Tripod: UNC ¼"-20 (built-in)

Environmental & Durability Factors

Operating Temperature (°C):
-10 to 50°C (14 to 122°F)

Storage Temperature (°C):
-40 to 70°C (-40 to 158°F)

Environmental Rating:
Camera housing and lens: IP54 rated (IEC 60529)

Additional Info

Measurement Correction:
Emissivity, matte/semi-matte/semi-gloss + custom
value, Reflected apparent temperature, Atmospheric
compensation

Regulatory Compliance

Certificate of Conformance:
[View](#)

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 Cx Series 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 Cx Series 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 × 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%