# NEW FC-Series

## Fixed IP Thermal Cameras

The next level of security.


FC-Series IP thermal cameras are the latest, compact FLIR® cameras to use our proprietary Wide Dynamic Range Thermal image processing. WDR Thermal lets FLIR cameras provide superior image quality in conditions that leave other cameras in the dark.

Designed for high performance, easy installation, and long-term reliability, FC-Series cameras with WDR Thermal give you the image detail needed for optimal threat detection capability and peak analytics performance - even in challenging imaging environments like when the camera is facing the rising or setting sun.

Because FLIR understands that you need cameras for the real world, FC-Series cameras are qualified beyond industry standard for survivability, and are backed by FLIR's unparalleled 3-year system warranty and 10-year detector warranty.

## Highlights of FC-Series Thermal Cameras:

- WDR Thermal for industry-leading threat detection
- Weather-proof IP66/IP67 enclosure suitable for operation in extreme environmental conditions
- PoE, PoE+, 12 VDC, and 24 VAC power input options for easy installation
- Simultaneous IP and analog video outputs along with IP and serial control interfaces for easy integration into IP networks or analog video environments; use them in an existing analog environment, and migrate easily to a future IP network
- Open IP standards for plug-and-play integration; ONVIF compliant
- Streaming digital video available in H.264, MPEG-4, or M-JPEG formats
- Advanced thermal image processing with Digital Detail Enhancement (DDE) for high-contrast images in dynamic thermal scenes


FLIR's WDR Thermal (left) keeps you seeing clearly in the most challenging environments, while cameras without WDR Thermal (right) leave you in the dark.

FLIR®

# Specifications

| Camera Model | FC-Series | FC-Series |
|---|---|---|
| **Thermal Camera** | | |
| Array Format (NTSC) | 320 x 240 | 640 x 480 |
| Detector Type | Long-Life, Uncooled VOx Microbolometer | |
| Effective Resolution | 76,800 | 307,200 |
| Pixel Pitch | 25 µm | 17 µm |
| Field of View | 63° x 50° (FC-363; 7.5 mm)<br>48° x 39° (FC-348; 9 mm)<br>34° x 28° (FC-334; 13 mm)<br>24° x 19° (FC-324; 19 mm)<br>13° x 10° (FC-313; 35 mm)<br>9° x 8° (FC-309; 35 mm, 17 µm) | 90° x 69° (FC-690; 7.5 mm)<br>69° x 56° (FC-669; 9 mm)<br>45° x 37° (FC-645; 13 mm)<br>32° x 26° (FC-632; 19 mm)<br>18° x 14° (FC-618; 35 mm) |
| Zoom | Up to 4x E-zoom | |
| Spectral Range | 7.5 µm to 13.5 µm | |
| Focus Range | Athermalized, focus-free | |
| **Outputs** | | |
| Composite Video NTSC or PAL | Standard | |
| Video over Ethernet | Two independent channels of H.264, MPEG-4 & M-JPEG<br>(see website for full details) | |
| **Control** | | |
| Ethernet | Yes | |
| Network Enabled | Yes | |
| Software Developer's Kit | Yes | |
| External Analytics Compatible | Yes | |
| **General** | | |
| Weight | 3.5 lb (1.6 kg) w/o sun shield<br>4.2 lb (1.9 kg) w/ sun shield | |
| Dimensions (L, W, H) | 9.2" x 4.6" x 4.1" w/o sun shield<br>10.8" x 5.4" x 4.4" w/ sun shield | |
| Input Voltage | 12–38 VAC<br>11–56 VDC<br>PoE (IEEE 802.3af-2003)<br>PoE+ (IEEE 802.3at-2009) | |
| Power Consumption<br>(Consult product manuals for detailed power requirements) | 24 VDC<br>5 W nominal<br>21 W peak (w/heaters)<br>24 VAC<br>8 VA nominal<br>29 VA peak (w/heaters) | |
| Approvals | FCC Part15, Subpart B, Class B<br>EN 55022 Class B | |
| **Environmental** | | |
| IP Rating | IP66 & IP67 | |
| Operating Temperature Range | -50°C to 70°C (continuous operation)<br>-40°C to 70°C (cold start) | |
| Storage Temperature Range | -55°C to 85°C | |
| Humidity | 0-95% relative | |
| Shock | MIL-STD-810F "Transportation" | |
| Vibe | IEC 60068-2-27 | |


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