FLIR FC-SERIES ID

Best-in-class thermal cameras with on-board analytics for high-performance intrusion detection.

The new FC-Series ID combines best-in-class thermal image detail and high-performance edge analytics together in a single device that delivers optimal intrusion detection in challenging imaging environments. FC-Series ID cameras feature on-board video analytics optimized for FLIR’s thermal video. Easy to set up and capable of classifying human or vehicular intrusions, FC-Series ID cameras provide reliable detection with low false alarm rates, all without human intervention.

**HIGH-PERFORMANCE INTRUSION DETECTION**

*Reliable On-Board Analytics With Low False-Alarm Rates*

- Intelligent analytics can distinguish between human / vehicular intruders and benign events, like the movement of animals or vegetation
- Only triggers alarms when humans or vehicles appear
- Easy set up of custom trip lines and regions of interest

**INDUSTRY-LEADING IMAGE QUALITY**

*Crisp, Clean Imagery for Unmatched Video Analytics Performance & Reliability*

- Superior image quality in low-contrast conditions
- FLIR’s custom AGCs provide unmatched image contrast
- Sharp edges and contrast enable improved analytics performance

**EXPANDED SELECTION OF HIGH-PERFORMANCE LENSES**

*Wide Variety of Lenses for Optimal Detection Ranges in All Conditions*

- Choose lenses from 13 mm to 75 mm with VGA or QVGA resolution, suitable for any perimeter or open area
- High performance optics deliver crisp, clean thermal video.
- Optional deicing for use in the most demanding installations

With the FC-Series ID camera, you can set custom trip lines and regions of interest that will only set off alarms for human or vehicular intruders.
## Specifications

<table>
<thead>
<tr>
<th>Camera Model</th>
<th>FC-Series ID</th>
<th>FC-Series ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Array Format (NTSC)</td>
<td>320 x 240</td>
<td>640 x 480</td>
</tr>
<tr>
<td>Detector Type</td>
<td>Long-Life, Uncooled VOx Microbolometer</td>
<td></td>
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<tr>
<td>Effective Resolution</td>
<td>76,800</td>
<td>307,200</td>
</tr>
<tr>
<td>Pixel Pitch</td>
<td>34 µm (FC-344 &amp; 332)</td>
<td>17 µm (all other models)</td>
</tr>
<tr>
<td>Field of View</td>
<td>24° x 18° (FC-324; 13 mm)</td>
<td>44° x 36° (FC-344; 13 mm)</td>
</tr>
<tr>
<td></td>
<td>17° x 13° (FC-317; 19 mm)</td>
<td>32° x 26° (FC-332; 19 mm)</td>
</tr>
<tr>
<td></td>
<td>9.2° x 7.0° (FC-309; 35 mm)</td>
<td>17° x 14° (FC-617; 35 mm)</td>
</tr>
<tr>
<td></td>
<td>5.4° x 4.1° (FC-305; 60 mm)</td>
<td>10° x 8.2° (FC-610; 60 mm)</td>
</tr>
<tr>
<td></td>
<td>4.3° x 3.3° (FC-304; 75 mm)</td>
<td>8.6° x 6.6° (FC-608; 75 mm)</td>
</tr>
<tr>
<td>Zoom</td>
<td>Continuous eZoom, up to 4X</td>
<td></td>
</tr>
<tr>
<td>Spectral Range</td>
<td>7.5 µm to 13.5 µm</td>
<td></td>
</tr>
<tr>
<td>Focus Range</td>
<td>Athermalized, focus-free</td>
<td></td>
</tr>
</tbody>
</table>

### Outputs

- **Composite Video NTSC or PAL**: Yes; hybrid system with IP & analog video
- **Video over Ethernet**: Two independent channels of H.264, MPEG-4 & M-JPEG
- **Streaming Resolution**: D1: 720x576, 4CIF: 704x576, Q-Native: 320x256, CIF: 352x288, QCIF: 176x144

### Control

- **Ethernet**: Yes
- **External Analytics Compatible**: Yes
- **Network APIs**: Nexus SDK for comprehensive system control and integration
  - Nexus CGI for http command interfaces
  - ONVIF Profile S

### General

- **Weight**: 4.0 lb (1.8 kg) w/o sun shield | 4.8 lb (2.2 kg) w/sun shield
- **Dimensions (L, W, H)**: 9.2” x 4.6” x 4.1” w/o sun shield | 10.8” x 5.4” x 4.4” w/sun shield
- **Input Voltage (Consult product manuals for feature/ power requirements)**: 11-44 VDC (no lens heaters) | 16-44 VDC (w/lens heaters)
  - 14-32 VAC (no lens heaters)
  - 16-32 VAC (w/lens heaters)
  - PoE (IEEE 802.3af-2003)
  - PoE+ (IEEE 802.3at-2009)
- **Power Consumption (Consult product manuals for detailed power requirements)**: 24 VDC | 5 W nominal
  - 21 W peak (w/heaters)
  - 24 VAC | 8 VA nominal
  - 29 VA peak (w/heaters)
- **Approvals**: FCC Part15, Subpart B, Class B | CE: EN 55022 Class B
- **Surge Immunity on AC Power Lines**: EN 55024: 2010 and 55022: 2010 to 4.0kV on AC aux power lines
- **Surge Immunity on Signal Lines**: EN 55024: 2010 and 55022: 2010 to 4.0kV

### Environmental

- **IP Rating**: IP66 & IP67
- **Operating Temperature Range**: -50°C to 70°C (continuous operation) | -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

### Image Optimization Features

- **Thermal AGC Modes**: Auto AGC, Manual AGC, Plateau Equalization AGC, Linear AGC, Auto Dynamic Detail Enhancement (DDE), Max Gain Setting
- **Thermal AGC Region of Interest (ROI)**: Default, Presets and User definable to insure optimal image quality on subjects of interest
- **Image Uniformity Optimization**: Automatic Flat Field Correction (FFC) | Thermal and Temporal Triggers

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