The Elara™ FC-Series O thermal security camera is one of FLIR’s premium thermal security cameras for perimeter protection. The Elara FC-Series O integrates with external video analytics devices, such as FLIR’s TRK or third party solutions, to classify human or vehicular intrusions. The Elara FC-Series O also offers a wide range of high-performance lenses, with a choice of resolutions, offering greater flexibility for tailoring security systems to specific site conditions.

INTEGRATES WITH ANALYTICS
The FC-Series O is an ideal camera for integrating with external video analytics systems.

- Fully integrated and certified to work with third party video management systems
- Supports open standard, ONVIF-compliant
- Advanced integration features, such as thermal configuration and alarm management, with FLIR’s United VMS

INDUSTRY-LEADING IMAGE QUALITY
Superior thermal image quality in low-contrast conditions.

- Superior image quality in extreme environments
- Custom AGCs provide unmatched image contrast
- Digital Detail Enhancement (DDE) produces sharp edges that improve performance of analytics

HIGH-PERFORMANCE LENSES
Choose from a wide range of high-performance lenses for optimal detection ranges in all conditions.

- Choose from 17 high performance lenses suitable for any perimeter or open area, including QVGA from 4° to 69° fields of view and VGA from 8° to 90° fields of view
- High-performance optics deliver crisp, clean thermal video
- High analytic ranges reduce number of cameras and total cost of ownership (TCO)

www.flir.com/security
**SPECIFICATIONS**

### Thermal Camera Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Elara FC-3XX O</th>
<th>Elara FC-8XX O</th>
</tr>
</thead>
<tbody>
<tr>
<td>Array Format</td>
<td>320 × 240</td>
<td>640 × 480</td>
</tr>
<tr>
<td>Detector Type</td>
<td>Uncooled VOx Microbolometer</td>
<td></td>
</tr>
<tr>
<td>Spectral Range</td>
<td>7.5 µm – 13.5 µm</td>
<td></td>
</tr>
<tr>
<td>Effective Resolution</td>
<td>76800</td>
<td>307200</td>
</tr>
</tbody>
</table>

#### E-Zoom

- FC-369 O: 34 µm
- FC-344 O: 34 µm
- FC-332 O: 34 µm
- Other models: 17 µm

#### Thermal Frame Rate

- NTSC: 30 Hz; PAL: 25 Hz / 8.3 Hz

#### E-Zoom

- 4x continuous E-Zoom

#### Focus

- Atherealized, focus-free

#### Sensitivity

< 35 mK for F# 1.0 optics

### Video

- Composite Video NTSC or PAL
- Hybrid system with IP & analog video, Dynamic NTSC or PAL settings

#### Analog Video Output Composite

1x Vp-p (PAL or NTSC), 1x BNC 75 Ω

#### Streaming Resolution

- D1: 720 × 576, 4CIF: 704 × 576, Native: 640 × 512
- D-Native: 320 × 256, CIF: 352 × 288, QVGA: 176 × 144

#### Video Compression

- Two independent channels of H.264 (Restricted VBR and CBR, 10 kbps – 4 Mbps, MPEG4, and MJPEG)
- T.265 (HEVC), Q-Native: 320 × 256, CIF: 352 × 288, QCIF: 176 × 144

#### Video Compression

- 10 kbps – 4 Mbps, MPEG4, and MJPEG

#### Supported Protocols

- IP: IPv4, HTTP, Bonjour, UPnP, DNS, NTP, RTCP, TCP, UDP, ICMP, IGMP, DHCP, ARP, SCPTP, RTP, RTSP, Unicast/Multicast, TCP/IP, HTTP, IEEE 802.1X, SNMP, HTTP, IEEE 802.1X

#### Network APIs

- FLIR SDK, FLIR CGI, ONVIF Profile S

#### External Analytics Compatible

- Yes

#### Control Input/Output

- 1x dry contact in; 1x relay out (rated load .025 A at 5 VDC)

#### Dimensions (L, W, H) with sunshield

- 282 × 129 × 115 mm (11.1" × 5.1" × 4.5")

#### Dimensions (L, W, H) without sunshield

- 229 × 114 × 106 mm (9" × 4.5" × 4.2")

#### Weight with sunshield

- 1.8 - 2.2 kg (4 – 4.75 lb)

#### Weight without sunshield

- 1.8 - 2.2 kg (4 – 4.75 lb)

#### Power Consumption (heater at 100%)

- < 5.5 W to < 8 W (varies by model)

#### Power Consumption (heater at 50%)

- < 25 W to < 32 W (varies by model)

#### Surge Immunity on AC Power Lines


#### Surge Immunity on Signal Lines

- EN 550022: 2010 and 55032: 2010 to 4.0kV on AC aux power lines; 8kV on AC video lines; EN 61000-4-5: 2011; IEC 61000-4-4 (within CISPR 22:2008 Class A limits)

### Cyber Security

#### IEEE 802.1x

- TLS/HTPS
- User authentication
- Access control via firewall
- Digest authentication

#### Environmental

- **IP Rating (Dust/Water Ingress)**: MIL-STD-810 F, Method 521.2 - 6 mm ice, 120 minutes with POE+, 4 mm ice with POE at FC-304, FC-306, FC-610 & FC-608 with Cold Weather kit
- **Operating Temp. Range**: -50° to 70°C (-58° to 158°F)
- **Storage Temp. Range**: -50° to 85°C (-58° to 185°F)
- **Humidity**: 0 – 95%, relative humidity
- **Shock**: MIL-STD-810G “Transportation”
- **Vibe**: IEC 60068-2-27
- **Anti-Icing**: MIL-STD-810 F, Method 521.2 - 6 mm ice, 120 minutes with POE+, 4 mm ice with POE at FC-304, FC-306, FC-610 & FC-608 with Cold Weather kit
- **Warranty & Regulatory**
  - ** Approvals**
  - ** Certifications**
  - ** Compliance**
    - RoHS Directive 2011/65/EU; WEEE 2012/19/EU
  - ** Warranty**
    - Camera: 3 years; Sensor: 10 years

### Optical characteristics

#### Model

<table>
<thead>
<tr>
<th>FOV, F#, Focal Length</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>69° × 56°, f/1.1, 9 mm</td>
<td>FC-396 O</td>
</tr>
<tr>
<td>44° × 36°, f/1.0, 13 mm</td>
<td>FC-344 O</td>
</tr>
<tr>
<td>32° × 28°, f/1.0, 13 mm</td>
<td>FC-332 O</td>
</tr>
<tr>
<td>24° × 18°, f/1.0, 13 mm</td>
<td>FC-324 O</td>
</tr>
<tr>
<td>17° × 13°, f/1.0, 19 mm</td>
<td>FC-317 O</td>
</tr>
<tr>
<td>13° × 10°, f/1.1, 25 mm</td>
<td>FC-313 O</td>
</tr>
<tr>
<td>10° × 8.2°, f/1.1, 60 mm</td>
<td>FC-309 O</td>
</tr>
<tr>
<td>9.2° × 7°, f/1.1, 35 mm</td>
<td>FC-305 O</td>
</tr>
<tr>
<td>5.4° × 4.1°, f/1.26, 60 mm</td>
<td>FC-304 O</td>
</tr>
<tr>
<td>4.3° × 3.3°, f/1.1, 75 mm</td>
<td>FC-300 O</td>
</tr>
</tbody>
</table>

#### F# / FOV / Focal Length

- FC-396 O: 90° × 69°, f/1.2, 7,5 mm
- FC-344 O: 69° × 56°, f/1.1, 9 mm
- FC-332 O: 44° × 36°, f/1.0, 13 mm
- FC-324 O: 32° × 28°, f/1.0, 13 mm
- FC-317 O: 24° × 18°, f/1.0, 19 mm
- FC-313 O: 17° × 13°, f/1.0, 19 mm
- FC-309 O: 13° × 10°, f/1.1, 25 mm
- FC-305 O: 9.2° × 7°, f/1.1, 35 mm
- FC-304 O: 5.4° × 4.1°, f/1.26, 60 mm
- FC-300 O: 4.3° × 3.3°, f/1.1, 75 mm

Specifications are subject to change without notice. For the most up-to-date specs, go to www.flir.com