FLIR Elara™ FC-Series O

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.

www.flir.com/security

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)

SPECIFICATIONS

Thermal Camera Specifications

Model		Elara FC-3XX O	Elara FC-6XX O
Array Format		320 × 240	640 × 480
Detector Type		Uncooled VOx Microbolometer	
Spectral Range		7.5 µm – 13.5 µm	
Effective Resolution		76800	307200
Pixel Pitch	FC-369 O	34 µm	17 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		Athermalized, 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
Video Compression	Two independent channels of H.264 (Restricted VBR and CBR, 10 kbps – 4 Mbps, MPEG4, and MJPEG)
Streaming Resolution	D1: 720 × 576, 4CIF: 704 × 576, Native: 640 × 512, Q-Native: 320 × 256, CIF: 352 × 288, QCIF: 176 × 144
Thermal AGC Modes Features	Brightness, contrast, sharpness, gray shade compression. gamma, smart screen balance
Thermal AGC Region of Interest (ROI)	Default, presets and user-definable to ensure optimal image quality of subjects of interest
Image Uniformity Optimization	Automatic Flat Field Correction (FFC); Thermal and Temporal Triggers
SD Card Snapshot Capture	Support for 32 GB SD Card (sold separately)

System Integration

Ethernet	10/100 Mbps
External Analytics Compatible	Yes
Control Input/Output	1x dry contact in; 1x relay out (rated load .025 A at 5 VDC)
Network APIs	FLIR SDK, FLIR CGI, ONVIF Profile S

Network

Supported Protocols	IPV4, HTTP, Bonjour, UPnP, DNS, NTP, RTCP, TCP, UDP, ICMP, IGMP, DHCP, ARP, SCP,FTP, RTP/RTSP, Unicast/Multicast, TCP/IP, HTTP, IEEE 802.1X

General

Weight without sunshield	1.8 – 2.2 kg (4 – 4.75 lb)
Weight with sunshield	2.2 – 2.5 kg (4.75 – 5.5 lb)
Dimensions (L, W, H) without sunshield	259 × 114 × 106 mm (10.2" × 4.5" × 4.2")
Dimensions (L, W, H) with sunshield	282 × 129 × 115 mm (11.1" × 5.1" × 4.5")
Power Consumption (heater off)	< 5.5 W to < 8 W (varies by model)
Power Consumption (heater at 100%))	< 25 W to < 32 W (varies by model)
Surge Immunity on AC Power Lines	CE: EN55032 Class A; FCC 47 CFR Part 15, Subpart B, Class A (within CISPR 22:2008 Class A limits)
Surge Immunity on Signal Lines	EN 55024: 2010 and 55032: 2010 to 4.0kV on AC aux power lines; EN 50130-4:2011; IEC 62599-2:2010

Environmental

IP Rating (Dust/Water Ingress)	IP66 & IP67
Operating Temp. Range	-50°C to 70°C (-58°F to 158°F)
Storage Temp. Range	-50°C to 85°C (-58°F 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 af

Warranty & Regulatory

Approvals	CE: EN55032 Class A; FCC 47 CFR Part 15, Subpart B, Class A (within CISPR 22:2008 Class A limits)
Certifications	IEC 60068-2-1:2007; IEC 60068-2- 2:2007; ISTA-1A (Handling)
Compliance	RoHS Directive 2011/65/EU; WEEE 2012/19/EU
Warranty	Camera: 3 years; Sensor: 10 years

Optical characteristics

Model	FOV, F#, Focal Length	Model	F# / FOV / Focal Length
FC-396 O	69° × 56°, f/1.4, 9 mm	FC-690 O	90° × 69°, f/1.2, 7.5 mm
FC-344 O	44° × 36°, f/1.0, 13 mm	FC-669 O	69° × 56°, f/1.4, 9 mm
FC-332 O	32° × 26°, f/1.0, 19 mm	FC-644 O	44° × 36°, f/1.0, 13 mm
FC-324 O	24° × 18°, f/1.0, 13 mm	FC-632 O	32° × 26°, f/1.0, 19 mm
FC-317 O	17° × 13°, f/1.0, 19 mm	FC-625 O	25° × 20°, f/1.1, 25 mm
FC-313 O	13° × 10°, f/1.1, 25 mm	FC-617 O	17° × 14°, f/1.1, 35 mm
FC-309 O	9.2° × 7°, f/1.1, 35 mm	FC-610 O	10° × 8.2°, f/1.25, 60 mm
FC-305 O	5.4° × 4.1°, f/1.25, 60 mm	FC-608 O	8.6° × 6.6°, f/1.1, 75 mm
FC-304 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

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