



## THERMAL ANALYTICS CAMERA

# ELARA™ FC-SERIES ID

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

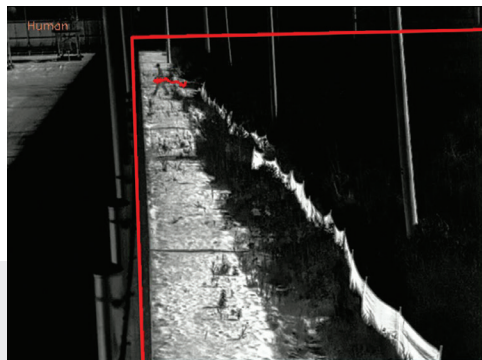
[www.flir.com/thermal-security](http://www.flir.com/thermal-security)



## RELIABLE ONBOARD ANALYTICS

*Accurately classify humans and vehicles*

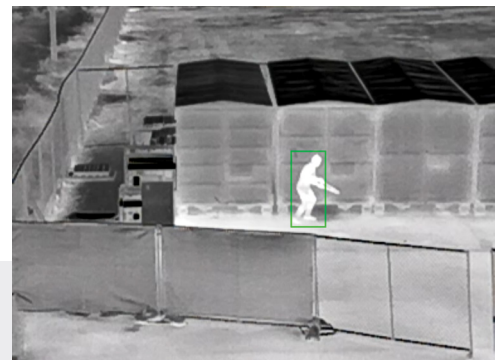
- Auto calibration for depth setup for a simple and reliable configuration.
- No additional measurement tools are needed, requiring only a single installer on site
- Allows analytics in corridor mode, reducing the number of cameras and improving the total cost of ownership
- Target hand-off to PTZ camera auto-tracking



## 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 images with extremely high contrast
- Dynamic Detail Enhancement (DDE) creates sharp edges and contrast that improve analytics performance



## HIGH-PERFORMANCE LENSES

*Wide Range of 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 clear thermal video

## SPECIFICATIONS

		Elara FC 3xx ID-Series		Elara FC 6xx ID-Series			Environmental	
<b>Image</b>  Array Format (NTSC) Detector type Spectral range Effective resolution Pixel Pitch Thermal frame rate E-Zoom Focus Sensitivity		320 x 240		640 x 480			IP Rating (Dust & Water Ingress)	IP66 & IP67
		Long-Life, Uncooled VOx Microbolometer					Operating Temperature Range	-50°C to 70°C/-58°F to 158°F (Continuous Operation) -40°C to 70°C/-40°F to 158°F (Cold Start)
		7.5 µm to 13.5 µm					Storage Temperature Range	-50°C to 85°C/-58°F to 185°F
		76,800 pixels		307,200 pixels			Humidity	0-95% relative humidity
		Effective 34 µm (FC-344,332& 369) 17 µm (all other models)		17 µm			Shock	MIL-STD-810G “Transportation”
		NTSC: 30 Hz - PAL: 25 Hz / 8.3 Hz					Vibe	IEC 60068-2-27
		4x continuous E-Zoom					De-Icing / Anti-Icing	MIL-STD-810 F, Method 521.2 - 6mm ice, 120 minutes with POE+, 4mm ice with POE af FC-304, FC-305, FC-610 & FC-608 with Cold Weather kit - not yet available.
		Athermalized, focus-free						
		<35mK for F# 1.0 optics						
<b>Video</b>							<b>Warranty &amp; Regulatory</b>  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	
Composite Video NTSC or PAL		Hybrid system with IP & analog video, Dynamic NTSC or PAL settings						
Analog Video Output Composite		1Vp-p (PAL or NTSC), 1 x BNC 75Ω						
Video Compression		Two independent channels of H.264 (Restricted VBR and CBR,10kbps-4Mbps, MPEG4, and MJPEG)						
Streaming Resolution		D1: 720x576, 4CIF: 704x576, Native: 640x512, Q-Native: 320x256, CIF: 352x288, QCIF: 176x144						
Thermal AGC Modes Features		Brightness, Contrast, Sharpness, Grey Shade Compression, Gamma, Smart Screen Balance						
Thermal AGC Region of Interest (ROI)		Default, Presets and User definable to insure optimal image quality on subjects of interest						
Analytics Management		Web-based configuration and management. Masking of analytic detection areas, adjustable sensitivity, automatic responses, remote I/O control						
Analytics Features		Region Entrance/Intrusion Detection, Crossover/Fence Trespassing;						
Image Uniformity Optimization		Automatic Flat Field Correction (FFC); Thermal and Temporal Triggers						
SD Card Snapshot Capture		Support for 32GB SD Card (sold separately)						
<b>System Integration</b>							<b>Optics</b>	
Ethernet		10/100 Mbps						
External Analytics Compatible		Yes						
Control Input/Output		1x Dry Contact in; 1x Relay Out (rated load 0.025A@ 5VDC)						
Network APIs		FLIR SDK, FLIR CGI, ONVIF Profile S						
<b>Network</b>								
Supported Protocols		IPv4, HTTP, Bonjour, UPnP, DNS, NTP, RTCP, TCP, UDP, ICMP, IGMP, DHCP, ARP, FTP, RTP/RTSP, Unicast/Multicast, TCP/IP, HTTP, IEEE 802.1X						
<b>General</b>								
Weight with sunshield		7.5/9/13/19/25/35mm 1.8kg (4 lb.) - 60mm 2.0kg (4.5 lb.) - 75mm 2.2kg (4.75 lb.)					FC-369 ID 69° × 56° F1.4 9 mm	
Weight without sunshield		7.5/9/13/19/25/35mm 2.2kg (4.75 lb.) - 60mm 2.4kg (5.25 lb.) - 75mm 2.5kg (5.5 lb.)					FC-344 ID 44° × 36° F1.0 13 mm	
Dimensions (L, W, H)		Without sunshield: 259 x 114 x 106 mm/10.2” x 4.5” x 4.2” With sunshield: 282 x 129 x 115 mm/11.1” x 5.1” x 4.5”					FC-332 ID 32° × 26° F1.0 19 mm	
Input Voltage		Source	POE (802.3af)	POE+ (802.3at)	12VDC	24VDC	24VAC(VA)	FC-324 ID 24° × 18° F1.0 13 mm
		Heater off	<5.5W	<5.5W	<5.5W	<5.5W	<8W	FC-317 ID 17° × 13° F1.0 19 mm
		Heater on (@ 100%)	N/A	<25W	<25W	<25W	<32W	FC-313 ID 13° × 10° F1.1 25 mm
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)					FC-309 ID 9.2° × 7.0° F1.1 35 mm	
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					FC-305 ID 5.4° × 4.1° F1.25 60 mm	
							FC-304 ID 4.3° × 3.3° F1.1 75 mm	
							FC-690 ID 90° × 69° F1.2 7.5 mm	
							FC-669 ID 69° × 56° F1.4 9 mm	
							FC-644 ID 44° × 36° F1.0 13 mm	
							FC-632 ID 32° × 26° F1.0 19 mm	
							FC-625 ID 25° × 20° F1.1 25 mm	
							FC-617 ID 17° × 14° F1.1 35 mm	
							FC-610 ID 10° × 8.2° F1.25 60 mm	
							FC-608 ID 8.6° × 6.6° F1.1 75 mm	

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