



THERMAL ANALYTICS CAMERA

ELARA™ FC-SERIES ID

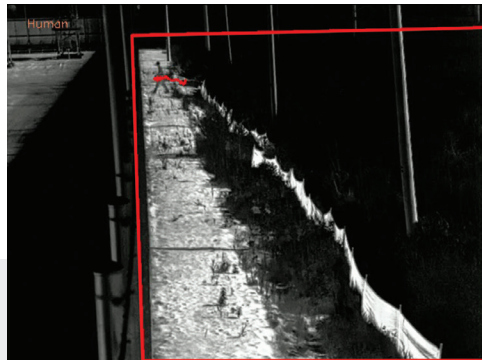
The Elara FC-Series ID combines best-in-class thermal image detail and high-performance edge perimeter analytics in a single device that delivers optimal intrusion detection in challenging environments and extreme conditions. Elara FC-Series ID cameras feature on-board video analytics optimized for FLIR's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



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								
Image 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													
Video							Warranty & Regulatory								
Composite Video NTSC or PAL		Hybrid system with IP & analog video, Dynamic NTSC or PAL settings					Approvals		CE: EN55032 Class A; FCC 47 CFR Part 15, Subpart B, Class A (within CISPR 22:2008 Class A limits)						
Analog Video Output Composite		1Vp-p (PAL or NTSC), 1 x BNC 75Ω					Certifications		IEC 60068-2-1:2007; IEC 60068-2-2:2007; ISTA-1A (Handling)						
Video Compression		Two independent channels of H.264 (Restricted VBR and CBR,10kbps-4Mbps, MPEG4, and MJPEG)					Compliance		RoHS Directive 2011/65/EU; WEEE 2012/19/EU						
Streaming Resolution		D1: 720x576, 4CIF: 704x576, Native: 640x512, Q-Native: 320x256, CIF: 352x288, QCIF: 176x144					Warranty		Camera: 3 Years Sensor: 10 Years						
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)													
System Integration							Optics								
Ethernet		10/100 Mbps					Model		FOV		F#		Focal Length		
External Analytics Compatible		Yes					FC-369 ID		69° × 56°		F1.4		9 mm		
Control Input/Output		1x Dry Contact in; 1x Relay Out (rated load 0.025A@ 5VDC)					FC-344 ID		44° × 36°		F1.0		13 mm		
Network APIs		FLIR SDK, FLIR CGI, ONVIF Profile S					FC-332 ID		32° × 26°		F1.0		19 mm		
Network							FC-324 ID		24° × 18°		F1.0		13 mm		
Supported Protocols		IPv4, HTTP, Bonjour, UPnP, DNS, NTP, RTPC, TCP, UDP, ICMP, IGMP, DHCP, ARP, FTP, RTP/RTSP, Unicast/Multicast, TCP/IP, HTTP, IEEE 802.1X					FC-317 ID		17° × 13°		F1.0		19 mm		
General							FC-313 ID		13° × 10°		F1.1		25 mm		
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-309 ID		9.2° × 7.0°		F1.1		35 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-305 ID		5.4° × 4.1°		F1.25		60 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-304 ID		4.3° × 3.3°		F1.1		75 mm		
Input Voltage		Source	POE (802.3af)	POE+ (802.3at)	12VDC	24VDC	24VAC(VA)	FC-690 ID		90° × 69°		F1.2		7.5 mm	
		Heater off	<5.5W	<5.5W	<5.5W	<5.5W	<8W	FC-669 ID		69° × 56°		F1.4		9 mm	
		Heater on (@ 100%)	N/A	<25W	<25W	<25W	<32W	FC-644 ID		44° × 36°		F1.0		13 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-632 ID		32° × 26°		F1.0		19 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-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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