



FC-Series ID

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 perimeter analytics in a single device that delivers optimal intrusion detection in challenging environments and extreme conditions. 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, FC-Series ID cameras provide reliable detection with very few false alarms. rates, all without human intervention.

HIGH-PERFORMANCE INTRUSION DETECTION

Reliable On-Board Analytics With a Very Low False-Alarm Rate

- Auto calibration of 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

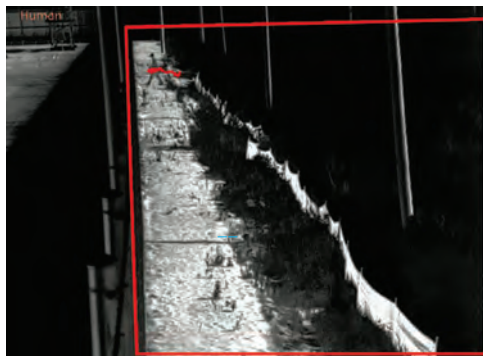
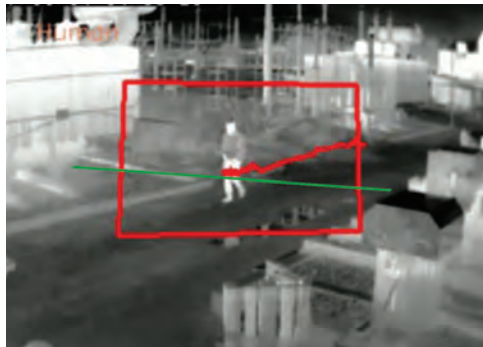
Crisp, Clean Imagery for Unmatched Video Analytics Performance & Reliability

- Superior image quality in low-contrast conditions
- FLIR's custom AGCs provide unmatched image contrast
- Dynamic Detail Enhancement (DDE) creates sharp edges and contrast that improve analytics performance

EXPANDED SELECTION OF HIGH-PERFORMANCE LENSES

Wide Variety of Lenses for Optimal Detection Ranges in All Conditions

- Choose lenses from 44 degrees (13mm) to 8 (VGA) / 4 (QVGA) degrees (75mm), suitable for any perimeter or open area
- High performance optics deliver crisp, clean thermal video
- Optional deicing for use in the most demanding installations
- High analytic ranges to reduce number of cameras and total cost of ownership (TCO)



Create custom trip lines and regions of interest that will only set off alarms for human or vehicular intruders.

Specifications

Camera Model	FC-3XX-ID		FC-6XX-ID			
Array Format (NTSC)	320 x 240		640 x 480			
Detector Type	Long-Life, Uncooled VOx Microbolometer					
Pixel Pitch	Effective 34 μ m (FC-344 & 332) 17 μ m (all other models)		17 μ m			
Field of View	24° x 18°, f/1.0, 13 mm 44° x 36°, f/1.0, 13 mm 17° x 13°, f/1.0, 19 mm 32° x 26°, f/1.0, 19 mm 9.2° x 7.0°, f/1.1, 35 mm 5.4° x 4.1°, f/1.25, 60 mm 4.3° x 3.3°, f/1.1, 75 mm		44° x 36°, f/1.0, 13 mm 32° x 26°, f/1.0, 19 mm 17° x 14°, f/1.1, 35 mm 10° x 8.2°, f/1.25, 60 mm 8.6° x 6.6°, f/1.1, 75 mm			
Spectral Range	7.5 μ m to 13.5 μ m					
Focus Range	Athermalized, focus-free					
Sensitivity	<50mK for F# 1.0 optics					
Input/Output						
Composite Video (NTSC or PAL)	Hybrid system with IP & analog video Dynamic NTSC or PAL settings					
Video over Ethernet	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					
Control Input/Output	1x Dry Contact in; 1x Relay Out (rated load 0.025A@ 5VDC)					
Analog Video Output Composite	1Vp-p (PAL or NTSC), 1 x BNC 75 Ω					
Control						
Ethernet	10/100 Mbps					
External Analytics Compatible	Yes					
Network 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					
Network APIs	Nexus SDK for comprehensive system control and integration; Nexus CGI for http command interfaces; ONVIF Profile S					
General						
Weight	Without sunshield:					
	Lens	13/19/35mm		60mm		75mm
	Weight	1.8kg (4 lbs.)		2.0kg (4.5 lbs.)		2.2kg (4.75 lbs.)
	With sunshield:					
Lens	13/19/35mm		60mm		75mm	
Weight	2.2kg (4.75 lbs.)		2.4kg (5.25 lbs.)		2.5kg (5.5 lbs.)	
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"					
Power Consumption (Consult product manuals for detailed power requirements)	Source	POE (802.3af)	POE+ (802.3at)	12VDC	24VDC	24VAC(VA)
	Heater off	<5.5W	<5.5W	<5.5W	<5.5W	<8W
	Heater on (@ 100%)	N/A	<25W	<25W	<25W	<32W
Local Storage	Support for 32GB SD Card (not supplied)					
Approvals	CE: EN55032 Class A; FCC 47 CFR Part 15, Subpart B, Class A (within CISPR 22:2008 Class A limits)					
Surge Immunity on AC Power Lines	EN 55024: 2010 and 55022: 2010 to 4.0kV on AC aux power lines; EN 50130-4:2011; IEC 62599-2:2010					
Surge Immunity on Signal Lines	EN 55024: 2010 and 55022: 2010 to 4.0kV					

Specifications

Environmental	
IP Rating	IP66 & IP67
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)
Storage Temperature 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
Image Optimization Features	
Certifications	IEC 60068-2-1:2007; IEC 60068-2-2:2007; ISTA-1A;
Compliance	RoHS Directive 2011/65/EU; WEEE 2012/19/EU
Analytics Management	Web-based configuration and management Masking of analytic detection areas, adjustable sensitivity, automatic responses, remote I/O control
Thermal AGC	Linear AGC, Histogram AGC, Dynamic Detail Enhancement (DDE), Sensitivity
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
Analytics Features	Region Entrance/Intrusion Detection, Crossover/Fence Trespassing; Auto/Manual Depth Setup, Human/Vehicle Rules, Hand-off target to PTZ tracking

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