FC-Series ID

FLIR FC-SERIES ID

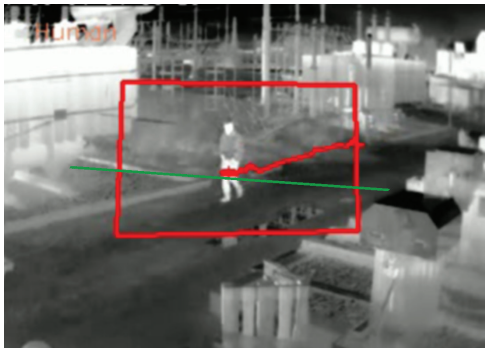
Best-in-class thermal cameras with on-board analytics for high-performance intrusion detection.

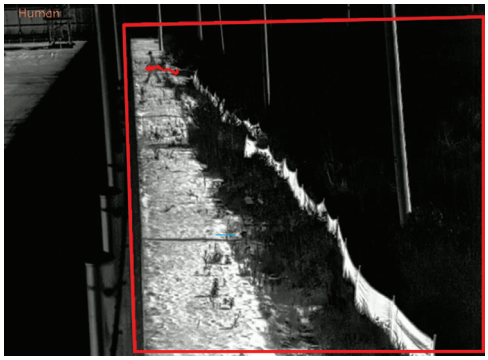
The new FC-Series ID combines best-in-class thermal image detail and high-performance edge perimeter analytics in a single device that delivers optimal intrusion detection in challenging environments and extreme conditions. FC-Series ID cameras feature on-board video analytics optimized for FLIR's thermal 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
- Manual and automatic masking of area in the scene





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

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)

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 µm (FC-344 & 332) 17 µm (all other models)	17 µm
Field of View	24° × 18°, f/1.0, 13 mm 44° × 36°, f/1.0, 13 mm 17° × 13°, f/1.0, 19 mm 32° × 26°, f/1.0, 19 mm 9.2° × 7.0°, f/1.1, 35 mm 5.4° × 4.1°, f/1.25, 60 mm 4.3° × 3.3°, f/1.1, 75 mm	44° × 36°, f/1.0, 13 mm 32° × 26°, f/1.0, 19 mm 17° × 14°, f/1.1, 35 mm 10° × 8.2°, f/1.25, 60 mm 8.6° × 6.6°, f/1.1, 75 mm
Spectral Range	7.5 µm to 13.5 µm	
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	
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 75Ω	
Control		
Ethernet	10/100 Mbps	
External Analytics Compatible	Yes	
Network APIs	Nexus SDK for comprehensive system control and integration; Nexus CGI for http command interfaces; ONVIF Profile S	
General		
Weight	Without sunshield: Lens Weight	13/19/35mm 1.8kg (4 lbs.)	60mm 2.0kg (4.5 lbs.)	75mm 2.2kg (4.75 lbs.)
	With sunshield: Lens Weight	13/19/35mm 2.2kg (4.75 lbs.)	60mm 2.4kg (5.25 lbs.)	75mm 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: EN55022 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 confguration and management Masking of analytic detection areas, adjustable sensitivity, automatic responses, remote I/O control
Thermal AGC Modes	Auto AGC, Manual AGC, Plateau Equalization AGC, Linear AGC, Auto Dynamic Detail Enhancement (DDE), Max Gain Setting
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

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