FC-Series ID

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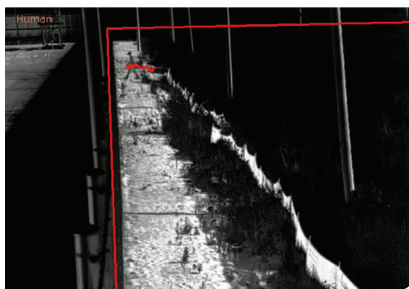
Best-in-class thermal cameras with on-board analytics for high-performance intrusion detection.

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

HIGH-PERFORMANCE INTRUSION DETECTION
Reliable On-Board Analytics With Low False-Alarm Rates

- Intelligent analytics can distinguish between human / vehicular intruders and benign events, like the movement of animals or vegetation

- Only triggers alarms when humans or vehicles appear

- Easy set up of custom trip lines and regions of interest

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

- Sharp edges and contrast enable improved analytics performance

EXPANDED SELECTION OF HIGH-PERFORMANCE LENSES
Wide Variety of Lenses for Optimal Detection Ranges in All Conditions

- Choose lenses from 13 mm to 75 mm with VGA or QVGA resolution, suitable for any perimeter or open area

- High performance optics deliver crisp, clean thermal video.

- Optional deicing for use in the most demanding installations

With the FC-Series ID camera, you can set custom trip lines and regions of interest that will only set off alarms for human or vehicular intruders.

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Specifications

Camera Model	FC-Series ID	FC-Series ID
Array Format (NTSC)	320 x 240	640 x 480
Detector Type	Long-Life, Uncooled VOx Microbolometer	
Effective Resolution	76,800	307,200
Pixel Pitch	34 µm (FC-344 & 332) 17 µm (all other models)	17 µm
Field of View	24° × 18° (FC-324; 13 mm) 44° × 36° (FC-344; 13 mm) 17° × 13° (FC-317; 19 mm) 32° × 26° (FC-332; 19 mm) 9.2° × 7.0° (FC-309; 35 mm) 5.4° × 4.1° (FC-305; 60 mm) 4.3° × 3.3° (FC-304; 75 mm)	44° × 36° (FC-644; 13 mm) 32° × 26° (FC-632; 19 mm) 17° × 14° (FC-617; 35 mm) 10° × 8.2° (FC-610; 60 mm) 8.6° × 6.6° (FC-608; 75 mm)
Zoom	Continuous eZoom, up to 4X	
Spectral Range	7.5 µm to 13.5 µm	
Focus Range	Athermalized, focus-free	

Outputs

Composite Video NTSC or PAL	Yes; hybrid system with IP & analog video	
Video over Ethernet	Two independent channels of H.264, MPEG-4 & M-JPEG (see website for full details)	
Streaming Resolution	D1: 720x576, 4CIF: 704x576, Native: 640x512, Q-Native: 320x256, CIF: 352x288, QCIF: 176x144	

Control

Ethernet	Yes	
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	4.0 lb (1.8 kg) w/o sun shield 4.8 lb (2.2 kg) w/sun shield	
Dimensions (L, W, H)	9.2" x 4.6" x 4.1" w/o sun shield 10.8" x 5.4" x 4.4" w/ sun shield	
Input Voltage (Consult product manuals for feature/power requirements)	11-44 VDC (no lens heaters) 16-44 VDC (w/lens heaters) 14-32 VAC (no lens heaters) 16-32 VAC (w/lens heaters) PoE (IEEE 802.3af-2003) PoE+ (IEEE 802.3at-2009)	
Power Consumption (Consult product manuals for detailed power requirements)	24 VDC 5 W nominal 21 W peak (w/heaters) 24 VAC 8 VA nominal 29 VA peak (w/heaters)	
Approvals	FCC Part15, Subpart B, Class B CE: EN 55022 Class B	
Surge Immunity on AC Power Lines	EN 55024: 2010 and 55022: 2010 to 4.0kV on AC aux power lines	
Surge Immunity on Signal Lines	EN 55024: 2010 and 55022: 2010 to 4.0kV	

Environmental

IP Rating	IP66 & IP67	
Operating Temperature Range	-50°C to 70°C (continuous operation) -40°C to 70°C (cold start)	
Storage Temperature Range	-55°C to 85°C	
Humidity	0-95% relative	
Shock	MIL-STD-810F "Transportation"	
Vibe	IEC 60068-2-27	

Image Optimization Features

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	

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