FLIR FC-SERIES ID

Thermal Analytics Camera

FC-Series ID

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 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 (TCO)

- Target hand-off to PTZ camera auto-tracking
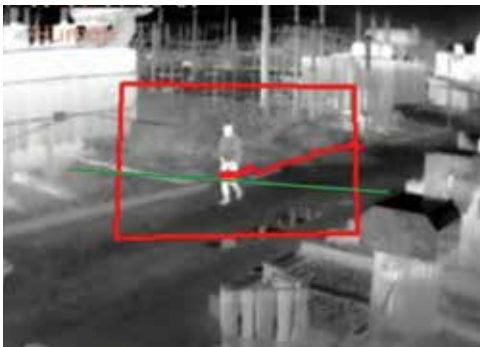
INDUSTRY-LEADING IMAGE QUALITY
Crisp, Clean Imagery for Unmatched Video Analytics Performance & Reliability

- 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

EXPANDED SELECTION OF 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

- High analytic ranges to reduce number of cameras and total cost of ownership

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

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Specifications

Thermal Camera Specs

Model	FC-3XX ID			FC-6XX ID		
Array Format	320 x 240			640 x 480		
Detector Type	Long-Life, Uncooled VOx Microbolometer					
Spectral Range	7.5 µm to 13.5 µm					
Effective Resolution	76800			307200		
Pixel Pitch	Effective 34 µm (FC-344,332& 369) 17 µm (all other models)			17 µm		
Thermal Frame Rate	NTSC: 30 Hz - PAL: 25 Hz / 8.3 Hz					
Optical Characteristics	**Model**	**FOV**	**F#, Focal Length**	**Model**	**FOV**	**F#, Focal Length**
	FC-369 ID	69° × 56°	f/1.4, 9 mm	FC-690 ID	90° × 69°	f/1.2, 7.5 mm
	FC-344 ID	44° × 36°	f/1.0, 13 mm	FC-669 ID	69° × 56°	f/1.4, 9 mm
	FC-332 ID	32° × 26°	f/1.0, 19 mm	FC-644 ID	44° × 36°	f/1.0, 13 mm
	FC-324 ID	24° × 18°	f/1.0, 13 mm	FC-632 ID	32° × 26°	f/1.0, 19 mm
	FC-317 ID	17° × 13°	f/1.0, 19 mm	FC-625 ID	25° × 20°	f/1.1, 25 mm
	FC-313 ID	13° × 10°	f/1.1, 25 mm	FC-617 ID	17° × 14°	f/1.1, 35 mm
	FC-309 ID	9.2° × 7.0°	f/1.1, 35 mm	FC-610 ID	10° × 8.2°	f/1.25, 60 mm
	FC-305 ID	5.4° × 4.1°	f/1.25, 60 mm	FC-608 ID	8.6° × 6.6°	f/1.1, 75 mm
	FC-304 ID	4.3° × 3.3°	f/1.1, 75 mm			
E-Zoom	4x continuous E-Zoom					
Focus	Athermalized, focus-free					
Sensitivity	<35mK for F# 1.0 optics					

Video

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 confguration and management. Masking of analytic detection areas, adjustable sensitivity, automatic responses, remote I/O control
Analytics Features	Region Entrance/Intrusion Detection, Crossover/Fence Trespassing; Auto/Manual Depth Setup, Human and Vehicle Rules, Hand-off target to PTZ racking, Tampering
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

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

Network

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

General

Weight without sunshield	Lens, weight	7.5/9/13/19/25/35mm, 1.8kg (4 lb.) 60mm, 2.0kg (4.5 lb.) 75mm, 2.2kg (4.75 lb.)
Weight with sunshield	Lens, weight	7.5/9/13/19/25/35mm, 2.2kg (4.75 lb.) 60mm, 2.4kg (5.25 lb.) 75mm, 2.5kg (5.5 lb.)
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"

Input voltage

Power Consumption	**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
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)					
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					

Environmental

IP Rating (Dust & Water Ingress)	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
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.

Warranty & Regulatory

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

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