FLIR FC-SERIES ID

Thermal Analytics Camera

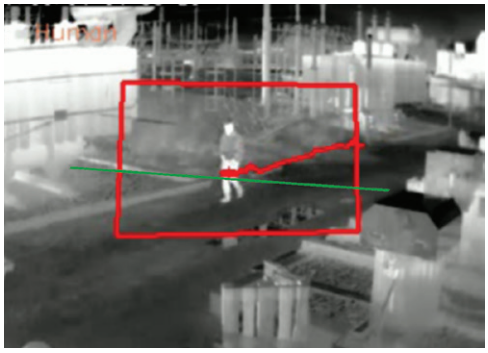
FC-Series ID

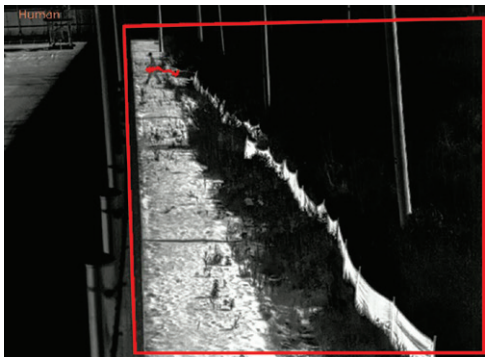
The new FC-Series ID combines best-in-class thermal image detail and high-performance edge perimeter analytics in a single device that delivers optimal intrusion detection in challenging environments and extreme conditions. FC-Series ID cameras feature on-board video analytics optimized for FLIR's thermal sensors. Easy to set up and capable of classifying human or vehicular intrusions, FC-Series ID cameras provide reliable detection with very few false alarms.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





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 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 lenses from 7.5 mm (90° HFOV) to 75mm (8.2° HVOF), suitable for any perimeter or open area
- High performance optics deliver clear thermal video
- High analytic ranges to reduce number of cameras and total cost of ownership (TCO)

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 ModesFeatures	Brightness, Contrast, Sharpness, Grey Shade Compression, Gamma, Smart Screen Balance, AGC Types: Histogram, Histogram HC, Histogram Blend, Linear					
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 Recording[1]	Support for 32GB SD Card (not supplied)					
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, SCP,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.)		
	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-610 & FC-608 TBD with Cold Weather kit.
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

CORPORATE HEADQUARTERS
FLIR Systems, Inc.
27700 SW Parkway Ave.
Wilsonville, OR 97070
USA
PH: +1 866.344.4674

FLIR Systems, Inc.
6769 Hollister Ave,
Goleta, CA 93117
USA
PH: +1 866.344.4674

www.flir.com
NASDAQ: FLIR

EUROPE
FLIR Systems
Luxemburgstraat 2
2321 Meer
Belgium
PH: +32 (0) 3665 5100

CANADA
FLIR Systems - Canada
250 Royal Crest Court
Markham, Ontario,
Canada L3R 3S1
PH: +1 866.344.4674