



FLIR *FC-SERIES O*

Thermal Security Camera

The FLIR FC-Series O camera provides best-in-class thermal video for superior perimeter protection systems. The FC-Series O's wide range of high-performance lenses and resolutions gives system designers greater flexibility to create a system tailored to specific site conditions. The FC-Series O is also ideal for third party video analytics

FLEXIBLE SYSTEM DESIGN

Plug and play integration with third party systems

- Fully integrated and certified to work with 3rd party video management systems
- Supports open standard, ONVIF conformant
- Advanced integration features, such as thermal configuration and alarm management, with FLIR's United VMS

INDUSTRY-LEADING IMAGE QUALITY

Crisp, Clean Imagery for Unmatched Video Analytics Performance & Reliability

- Superior image quality in extreme environments
- Custom AGCs provide unmatched image contrast
- Digital Detail Enhancement (DDE) produces sharp edges that improve performance of analytics

HIGH-PERFORMANCE LENSES

Wide Selection of Lenses for Optimal Detection 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 crisp, clean thermal video
- High analytic ranges reduce number of cameras and total cost of ownership (TCO)



FC-Series O at noon



FC-Series O at dusk

Specifications

Thermal Camera Specs						
Model	FC-3XX O			FC-6XX O		
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 O	69° × 56°	f/1.4, 9 mm	FC-690 O	90° × 69°	f/1.2, 7.5 mm
	FC-344 O	44° × 36°	f/1.0, 13 mm	FC-669 O	69° × 56°	f/1.4, 9 mm
	FC-332 O	32° × 26°	f/1.0, 19 mm	FC-644 O	44° × 36°	f/1.0, 13 mm
	FC-324 O	24° × 18°	f/1.0, 13 mm	FC-632 O	32° × 26°	f/1.0, 19 mm
	FC-317 O	17° × 13°	f/1.0, 19 mm	FC-625 O	25° × 20°	f/1.1, 25 mm
	FC-313 O	13° × 10°	f/1.1, 25 mm	FC-617 O	17° × 14°	f/1.1, 35 mm
	FC-309 O	9.2° × 7.0°	f/1.1, 35 mm	FC-610 O	10° × 8.2°	f/1.25, 60 mm
	FC-305 O	5.4° × 4.1°	f/1.25, 60 mm	FC-608 O	8.6° × 6.6°	f/1.1, 75 mm
	FC-304 O	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					
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, 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-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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