FC-Series O

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

FC-Series O at noon

FC-Series O at dusk

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, ONFIV 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

- 17 high performance lenses—from 4° to 90° fields of view—suitable for any perimeter or open area
- High-performance optics deliver crisp, clean thermal video
- High analytic ranges reduce number of cameras and total cost of ownership (TCO)

Specifications

Camera Model	FC-3XX-0	FC-6XX-0
Array Format (NTSC)	320 x 240	640 x 480
Detector Type	Long-Life, Uncooled VOx Microbolometer	
Pixel Pitch	Effective 34 µm (FC-344, 332 & 369) 17 µm (all other models)	17 µm
Field of View	69° × 56°, f/1.4, 9mm 44° × 36°, f/1.0, 13 mm 32° × 26°, f/1.0, 19 mm 24° × 18°, f/1.0, 13 mm 17° × 13°, f/1.0, 19 mm 13° × 10°, f/1.1, 25mm 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	90° × 69°, f/1.2, 7.5mm 69° × 56°, f/1.4, 9mm 44° × 36°, f/1.0, 13 mm 32° × 26°, f/1.0, 19 mm 25° x 20°, f/1.1, 25mm 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	<35mK @ 25c F# 1.0	
Input/Output		
Composite Video (NTSC or PAL)	Hybrid system with IP & analog video Dynamic NTSC or PAL settings	
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 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	
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: EN55032 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 55032: 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 55032: 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
Certifications	IEC 60068-2-1:2007; IEC 60068-2-2:2007; ISTA-1A;
Compliance	RoHS Directive 2011/65/EU; WEEE 2012/19/EU
Image Optimization Features	
Thermal AGC	Linear AGC, Histogram AGC, Dynamic Detail Enhancement (DDE), Sensitivity
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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