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

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Specifications

Thermal Camera Specs

	FC-3XX O	FC-6XX O
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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