

FLIR FC-SERIES AI

Thermal AI Analytics Camera



Key Features:

- Robust CNN video analytics, reliably recognize humans and vehicles with high accuracy
- Differentiate between true threats and false alarms, even when someone is attempting to deceive the system
- Target geolocation for situational awareness and precise handoff to a PTZ device
- Choose from 8 high-performance lenses from 8° to 90° fields of view
- · Cyber-hardened, seamless integration with Video Management Systems, including FLIR UVMS and 3rd party video management systems

Main Applications:

- Perimeter protection
- · Large and small area protection
- Remote site monitoring

SPECIFICATIONS Overview Array format 640×512 Detector type Long-life, uncooled VOx microbolometer Spectral range 7.5 µm to 13.5 µm 327,680 pixels Effective resolution 17 um Pixel pitch Thermal frame rate NTSC: 30 Hz - PAL: 25 Hz / 8.3 Hz F-700m 4x continuous E-Zoom Focus Athermalized focus-free Sensitivity <25 mK @ 25°C (77°F) for f/1.0 Video Composite video NTSC or PAL Hybrid system with IP & analog video, dynamic NTSC or Analog video output composite 1Vp-p (PAL or NTSC), 1 x BNC 75 Ω Two independent channels of H.264 / H.265 or MJPEG Video compression 640 × 512 Streaming resolution Thermal AGC mode features Brightness, Contrast, Sharpness, Grey Shade Compression, Gamma, Smart Screen Balance Thermal AGC region of interest Default, Presets, and User definable to ensure optimal image quality on subjects of interest Web-based configuration and management; masking of Analytics management analytic detection areas, adjustable sensitivity, automatic responses, remote I/O control Analytics features Region entrance/Intrusion detection, Crossover/fence trespassing, CNN classifier Image uniformity optimization Automatic flat field correction (FFC); thermal and temporal triggers SD card snapshot capture Support for 32 GB SD card (sold separately)

System Integration					
Ethernet	10/100 Mbps				
External analytics compatible	Yes				
Control input/output network	1x dry contact in; 1x relay out (rated load 0.025 A@ 5 VDC)				
APIs	NEXUS SDK, NEXUS CGI, ONVIF Profile S, G, T				
Network					
Supported protocols	IPV4, HTTP, HTTPS, UPnP, DNS, NTP, RTCP, TCP, UDP, ICMP, IGMP, DHCP, ARP, TCP/IP, IEEE 802.1X				
General					
Weight with sunshield	7.5/9/13/19/25/35 mm 2.2 kg (4.75 lb) - 60 mm 2.4 kg (5.25 lb) - 75 mm 2.5 kg (5.5 lb)				
Weight without sunshield	7.5/9/13/19/25/35 mm 1.8 kg (4 lb) - 60 mm 2.0 kg (4.5 lb) - 75 mm 2.2 kg (4.75 lb)				
Dimensions (I × w × h)	Without sunshield: $259 \times 114 \times 106$ mm/10.2 \times 4.5 \times 4.2 in With sunshield: $282 \times 129 \times 115$ mm/11.1 \times 5.1 \times 4.5 in				
Input voltage	Source	POE+ (802.3 at)	12 VDC	24 VDC	24 VAC(VA)
	Heater off	<9 W	<10 W	<9 W	<15 W
	Heater on (@ 100%)	<25 W	<28 W	<25 W	<32 W
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 4.0 kV on AC aux power lines; EN 50130-4:2011; IEC 62599-2:2010				

Specifications subject to change. For the most up-to-date specifications, please visit flir.com.

For more information contact Michael Deruttyer, Product Manager: michael.deruttyer@teledyne.com

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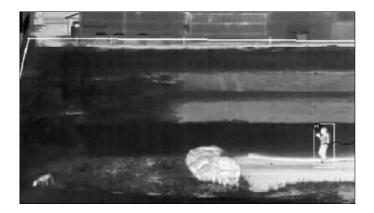
SPECIFICATIONS, CONT.

IEEE 802.1x, TLS/HTTPS, User authentication access control via firewall, user credentials with policy enforcement, digest authentication		
IP66 & IP67		
-50°C to 70°C/-58°F to 158°F (continuous operation) -40°C to 70°C/-40°F to 158°F (cold start)		
-50°C to 85°C (-58°F to 185°F)		
0-95% relative humidity		
MIL-STD-810G "Transportation"		
IEC 60068-2-27		
IK10 (except windows)		
MIL-STD-810 F, Method 521.2 – 6 mm ice, 120 minutes with POE+ FC-610 AI		
CE: EN55032 Class A; FCC 47 CFR Part 15, Subpart B, Class A (within CISPR 22:2008 Class A limits)		
IEC 60068-2-1:2007; IEC 60068-2-2:2007; ISTA-1A (handling)		
RoHS Directive 2011/65/EU; WEEE 2012/19/EU		
Camera: 3 years / Sensor: 10 years		

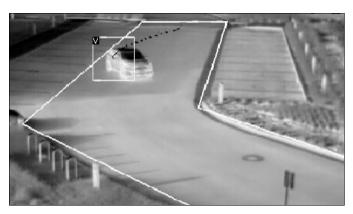
Optics				
Model	FOV	f/number	Focal Length	
FC-690 AI	90° × 69°	f/1.2	7.5 mm	
FC-669 AI	69° × 56°	f/1.4	9 mm	
FC-644 AI	44° × 36°	f/1.0	13 mm	
FC-632 AI	32°×26°	f/1.0	19 mm	
FC-625 AI	25° × 18°	f/1.1	25 mm	
FC-617 AI	17° × 14°	f/1.1	35 mm	
FC-610 AI	10° × 8.2°	f/1.2	60 mm	
FC-608 AI	8.6° × 6.6°	f/1.1	75 mm	

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