Flir FCB-Series AI

Thermal AI Analytics Camera

FLIR NEXUS

Key Features:

- Industry-leading thermal sensitivity (<20 mK) delivers clear, high-contrast targets in darkness, fog, rain, and challenging weather.
- Onboard deep neural network analytics accurately classify humans and vehicles to reduce false alarms.
- Choose the perfect fit for any site layout with five premium lenses offering fields of view from 18° to 50°. Available in VGA or QVGA, these options deliver flexibility without compromise.

Main Applications:

- FCB-Series AI delivers uncompromising perimeter security along property boundaries with intelligent threat detection—keeping assets safe and intruders out.
- Prevent breaches and ensure operational continuity with vigilant, real-time oversight of restricted zones.
- Remote site surveillance offers dependable, always-on visibility for isolated or high-value locations, enabling rapid response and peace of mind from anywhere.

Specifications

Overview	
Array format	VGA: 640 × 512, QVGA: 320 × 256
Detector type	Long-life, uncooled, sun-safe VOx microbolometer
Spectral range	8 µm to 14 µm
Effective resolution	VGA: 327,680 pixels, QVGA: 81,920 pixels
Pixel pitch	12 µm
Thermal frame rate	30 Hz
Focus	Athermalized, focus-free
Sensitivity	VGA: <20 mK, QVGA: <30 mK
Video	
IP video	Two independent H.265/H.264/MJPEG streams
Streaming resolution	VGA: 640 × 512, QVGA: 320 × 256
Thermal image Settings	Brightness, Contrast, Sharpness, Auto AGC, Digital Detail Enhancement (DDE), Gamma, Smart Screen Optimization
Thermal AGC region of interest	Default, Presets, and User definable to ensure optimal image quality on subjects of interest
Analytics management	Web-based configuration and management; masking of 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			
Storage support	Up to 2TB SD card (sold separately)			
System Integration				
Ethernet	10/100/1000 IEEE 802.3, auto sensing 1 × RJ45			
External analytics compatible	Yes			
Control input/output network	1 × dry contact in; 1 × 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, RTSP, RTP, TCP, UDP, ICMP, IGMP, DHCP, ARP, IEEE 802.1X, ONVIF Profile G/T/S			
General				
Weight with sunshield	2.34 kg			
Dimensions (W × H × L)	96.9 × 85.4 × 378 mm (3.8 × 3.4 × 14.9 in.)			
Input voltage	Source	PoE+ (802.3at)	12 VDC	24 VAC (VA)
	Heater off	6.8 W	7.2 W	7.0 W
	Heater on (@ 100%)	13.5 W	12.4 W	12.5 W

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

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Specifications, continued

Audio	1 × Line Input, G.711 a-law/µ-law, AAC support + 1 × Line Output
Cybersecurity	Password protection, Password policy enforcement, IP filtering, IEEE 802.1X, Digest authentication, CA & selfsigned certificates, Firewall
Environmental	
Ingress rating	IP67, NEMA 4X
Operating temperature	-40°C to 60°C/-40°F to 140°F (cold start)
Storage temperature	-50°C to 85°C (-58°F to 185°F)
Humidity	0-95% relative humidity
Shock & vibration	ISTA 3A
Vandalism	Yes (except windows)
De-fog	Built in heaters
Warranty & Regulatory	
Warranty	Camera: 3 years / Sensor: 10 years
EMC	CE marked (EN 55032 & EN 55035) , EN 61000-6-3, EN 50130-4, FCC Part 15 (subpart B, class A)
International	RoHS, WEEE, UKCA, ICES-003, AS/NSZ CISPR 32
Safety	CB Scheme IEC 62368-1:2018, IEC 62471 CB scheme IR led individually. Comply with IEC62368-1:2020+A112020

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Ordering Information

Model	FOV	f/number	Focal Length
FCB-632 AI	32° × 25.6°	f/1.0	14 mm
FCB-624 AI	24.3° × 19.5°	f/1.0	18 mm
FCB-618 AI	18° × 14.4°	f/1.0	24 mm
FCB-350 AI	50° × 40°	f/1.0	4.3 mm
FCB-334 AI	34.1° × 27.3°	f/1.0	6.3 mm

Accessories

Model	Description
CM-SECA-W4	Side conduit adapter kit, with cable housing attached.
CM-4S-32	4S electrical box mount adapter plate.
CX-CRNR-G3	90-degree exterior angle corner mount kit.
CX-POLE-G3	Pole mount kit, including straps
CX-POLE-G32	Pole mount kit, including straps, for use with CM-CAPX-W32 wall mount with pendant cap kit.
CB-BKBX-65	Back box with 3/4" (20 mm) NPT conduit holes.
CB-BKBX-65S	Alternative back box, two 17mm holes located at the rear.
4210755 FC-PWR-00	Inline 30 W IEEE 802.3a PoE+ injector.

NDAA Compliant

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