



Flir FCB-Series AI

Thermal AI Analytics Camera



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.

www.flir.com/products/FCB-Series-AI

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, Palettes (WhiteHot, BlackHot, Iron, Rainbow, Arctic, Lava)
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
Digital zoom	x4

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	1x dry contact input; 1x relay output (voltage-free, max 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.)

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

For technical or sales support, please visit:

flir.custhelp.com

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Thermal AI Analytics Camera

Specifications, continued

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 W	12.4 W	12.5 W
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, TPM 2.0 secure boot			
Environmental				
Enclosure	IP67, NEMA 4X, MIL-STD-810F			
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 + de-ice	Built in heaters + front faceplate			
Warranty & Regulatory				
Warranty	Camera: 3 years / Sensor: 10 years			
EMC	CE (EN 55032, EN 55035), EN 61000 6 3, EN 50130 4, AS/ NZS CISPR 32, FCC Part 15 (Subpart B, Class A)			
International	RoHS, WEEE, UKCA, ICES 003, RCM			
Safety	CB Scheme IEC 62368-1 (2018, 2020+A112020), IEC 62471 CB (photo-biological safety for IR LEDs)			

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Ordering Information

Model	FOV	f/number	Focal Length
FCB-695-AI	95° x 76°	f/1.0	4.9 mm
FCB-650-AI	50° x 40°	f/1.0	8.7 mm
FCB-632 AI	32° x 25.6°	f/1.0	14 mm
FCB-624 AI	24.3° x 19.5°	f/1.0	18 mm
FCB-618 AI	18° x 14.4°	f/1.0	24 mm
FCB-612 AI	12° X 9.6°	f/1.0	36 mm
FCB-608 AI	8° x 6.4°	f/1.0	55 mm
FCB-350 AI	50° x 40°	f/1.0	4.3 mm
FCB-334 AI	34.1° x 27.3°	f/1.0	6.3 mm

Model availability may differ depending on the region.

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
4210755 FC-PWR-00	Inline 30 W IEEE 802.3a PoE+ injector



To learn more about
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