



FLIR FC-SERIES AI

Thermal AI Analytics Camera



For FLIR Sales and Service contact us at:

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SPECIFICATIONS

| Overview | |
|--------------------------------|--|
| Array format | 640 × 512 |
| Detector type | Long-life, uncooled VOx microbolometer |
| Spectral range | 7.5 µm to 13.5 µm |
| Effective resolution | 327,680 pixels |
| Pixel pitch | 17 µm |
| Thermal frame rate | NTSC: 30 Hz - PAL: 30 Hz / 8.3 Hz |
| 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 PAL settings |
| Analog video output composite | 1Vp-p (PAL or NTSC), 1 x BNC 75 Ω |
| Video compression | Two independent channels of H.264 / H.265 or MJPEG |
| Streaming resolution | 640×512 |
| 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 |
| SD card snapshot capture | Support up to 512 GB SD card (sold separately) |

Key Features:

- Robust DNN video analytics, reliably recognize humans and vehicles with high accuracy
- Differentiate between true threats and nuisance 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

www.flir.com/fc-series-ai

| 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, RTSP, TCP, UDP, ICMP, IGMP, DHCP, ARP, 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 (l × w × h) | Without sunshield: 259 × 114 × 106 mm/10.2 × 4.5 × 4.2 in With sunshield: 282 × 129 × 115 mm/11.1 × 5.1 × 4.5 in | | | | |
| Input voltage | Source | PoE+ (802.3at) | 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 and signal lines | ESD: EN 61000-4-2 RS: EN 61000-4-3; EN 55035 (2017 + A11: 2020); EN 50130-4 EFT: EN 61000-4-4 Surge: EN 61000-4-5 CS: EN 61000-4-6 PFMF: EN 61000-4-8 | | | | |

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

For technical or sales support, please visit:
www.flir.com/about/general-inquiries

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SPECIFICATIONS, CONT.

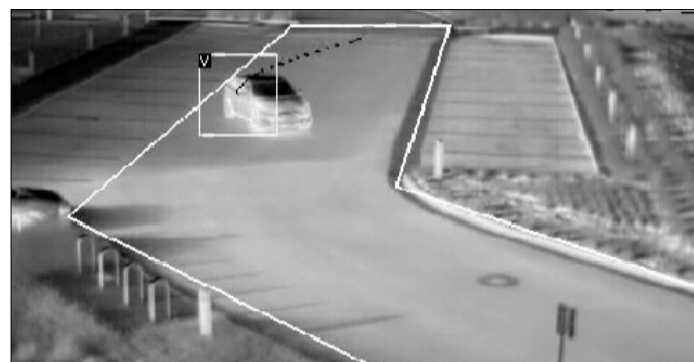
| | |
|----------------------------------|--|
| Cybersecurity | IEEE 802.1x, TLS/HTTPS, User authentication access control via firewall, user credentials with policy enforcement, digest authentication |
| Environmental | |
| IP rating (dust & water ingress) | IP66 & IP67 |
| Operating temperature range | -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 | Shock (Operational) MIL-STD-810G, Method 516.6 Shock (Transportation) IEC 60068-2-27:08 |
| Vibration | IEC 60068-2-64:08 |
| Vandalism | IK10 (except lens and windows) |
| De-icing/Anti-icing | MIL-STD 810F:00 + Notice 1:00 + Notice 2:02 + Notice 3:03 |
| Warranty & Regulatory | |
| Emission | FCC 47 CFR Part 15, Subpart B, Class A (within CISPR 22:2008 Class A limits); EN55032 Class A |
| Safety | IEC 62368-1: 2018 |
| Compliance | CE Marked; RoHS III Directive 2015/863/EU; WEEE Directive 2012/19/EU |
| Warranty | 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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For accessories, product registration, and warranty information, scan or visit:



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