



F-Series

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Thermal Security Cameras with IP and Analog Functionality

F-Series high-resolution thermal security cameras are fixed-site cameras that give you video and control over both IP and analog networks. F-Series cameras define the new standard of performance with five models that provide full 640 × 480 thermal resolution giving you up to 16 times as many pixels as their lower resolution counterparts for greater image detail, longer detection ranges, and better analytics performance than ever before.

Features

- Sharper thermal images that provide greater scene detail; improves threat detection and alarm assessment capabilities
- Long-range threat detection; see smaller details from farther away
- Enhanced analytics performance; gives you more reliable feedback with fewer nuisance alarms
- Wider fields of view improve coverage without compromising range performance; optimize coverage efficiency while lowering overall installation cost
- Simultaneous IP and analog video outputs, along with IP and serial control interfaces for easy integration into IP or analog networks; use them in an existing analog environment, and migrate easily to a future IP network
- Sun-safe VOx uncooled thermal sensor technology; looking directly at the sun won't damage FLIR uncooled thermal security cameras
- Exchangeable camera cassettes allow for quick upgrade or repair of sensors and optics
- Open IP standards for plug-and-play integration; ONVIF compliant
- Streaming digital video available in H.264, MPEG-4, or M-JPEG formats



Camouflaged intruders are invisible to daylight CCD cameras, but people can't hide their heat from FLIR thermal imagers.

Specifications

Camera Model	F-Series		
Camera Platform Type	Fixed	Fixed	Fixed
Thermal Camera Specs			
Array Format (NTSC)	160 x 120	320 x 240	640 x 480
Detector Type	Long-Life, Uncooled VOx Microbolometer	Long-Life, Uncooled VOx Microbolometer	Long-Life, Uncooled VOx Microbolometer
Effective Resolution	19,200	76,800	307,200
Pixel Pitch	25 µm	25 µm	17 µm
Field Of View	24° x 20° (F-124; 9 mm) 17° x 14° (F-117; 13 mm) 12° x 10° (F-112; 19 mm)	48° x 39° (F-348; 9 mm) 34° x 28° (F-334; 13 mm) 24° x 19° (F-324; 19 mm) 13° x 10° (F-313; 35 mm) 7° x 5° (F-307; 65 mm) 4.6° x 3.7° (F-304; 100 mm)	45° x 37° (F-645; 13 mm) 25° x 20° (F-625; 25 mm) 18° x 14° (F-618; 35 mm) 12° x 10° (F-612; 50 mm) 10° x 8° (F-610; 65 mm) 6.2° x 5° (F-606; 100 mm)
Zoom	2x E-zoom	2x & 4x E-zoom	2x & 4x E-zoom
Spectral Range	7.5 µm to 13.5 µm	7.5 µm to 13.5 µm	7.5 µm to 13.5 µm
Focus Range	athermalized, focus-free	athermalized, focus-free	athermalized, focus-free
Outputs			
Composite Video NTSC or PAL	Standard	Standard	Standard
Video over Ethernet	Two independent channels of streaming MPEG-4, H.264, or M-JPEG	Two independent channels of streaming MPEG-4, H.264, or M-JPEG	Two independent channels of streaming MPEG-4, H.264, or M-JPEG
Control			
Point to point (stand alone)	Yes	Yes	Yes
Ethernet	Yes	Yes	Yes
Serial	RS-232/-422; Pelco D, Bosch	RS-232/-422; Pelco D, Bosch	RS-232/-422; Pelco D, Bosch
Network Enabled	Yes	Yes	Yes
Software Developer's Kit	Optional	Optional	Optional
External Analytics Compatible	Yes	Yes	Yes
General			
Weight	~10.2 lb (configuration dependent)	~10.2 lb (configuration dependent)	~10.2 lb (configuration dependent)
Dimensions (L,W,H)	18.1" x 5.5" x 6.3" (460 x 140 x 160 mm)	18.1" x 5.5" x 6.3" (460 x 140 x 160 mm)	18.1" x 5.5" x 6.3" (460 x 140 x 160 mm)
Input Voltage	24 VAC (21-30 VAC) 24 VDC (21-30 VDC)	24 VAC (21-30 VAC) 24 VDC (21-30 VDC)	24 VAC (21-30 VAC) 24 VDC (21-30 VDC)
Power Consumption (Consult product manuals for details of power requirements)	24 VAC: 15 VA (max w/o heaters) 51 VA (max w/heaters) 24 VDC: 10 W (max w/o heaters) 46 W (max w/heaters)	24 VAC: 15 VA (max w/o heaters) 51 VA (max w/heaters) 24 VDC: 10 W (max w/o heaters) 46 W (max w/heaters)	24 VAC: 15 VA (max w/o heaters) 51 VA (max w/heaters) 24 VDC: 10 W (max w/o heaters) 46 W (max w/heaters)



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