FC-Series

FLIR
FC-SERIES S
Fixed Network Thermal Cameras

Get the best image detail and optimal intrusion detection in challenging imaging environments with the FLIR FC-Series S thermal network camera. As FLIR's flagship thermal security product, the award-winning FC-Series S camera sets the industry standard, providing accurate and cost-effective perimeter detection and visual alarm verification. The FC-Series S is capable of replacing multiple visible cameras and any additional lighting and infrastructure needed to support them. With the ability to classify human or vehicle intrusions, FC-Series S provides reliable detection and flexible alarming options by email, web and mobile apps, edge image storage, digital outputs, or VMS event notifications.

COST-EFFECTIVE INTRUSION DETECTION.
Most popular and reliable thermal imager in the industry

- High-contrast thermal images provide best-in-class detection with minimal false alarms
- Digital Detail Enhancement (DDE) & Wide Dynamic Range Thermal image processing combine to give you optimal images in all scene conditions
- 24/7 intrusion protection regardless of lighting and environmental conditions
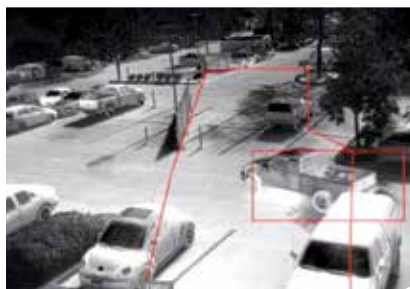
FEATURE-RICH EDGE ANALYTICS.
Powerful on-board analytics capable of classifying human or vehicle intrusions

- Multiple alarm notification options, including email, digital outputs or VMS alarms
- Camera configuration via web interface, FSM PC application or mobile apps
- Ideal for use with third-party analytics, including those provided by FLIR's partners around the world
- ONVIF compliant – interoperable with most video management systems

FC-Series thermal network cameras can detect human or vehicle intrusions and alert you in multiple ways, including by email, digital outputs or VMS alarms.

RUGGED INDUSTRIAL DESIGN.
Enterprise-class design and materials deliver optimal performance in harsh conditions

- Only thermal camera with both IP66 and IP67 dust & water protection. -50 to 70C (-58 to 158F) Plus it's shock, vibration, and corrosion-resistant
- More fields of view and resolution options than any other thermal imager; supports optimal camera selection and deployments
- PoE, AC and DC inputs, analog and network outputs
- 3 year camera, 10-year detector warranty

The World's Sixth Sense™

Specifications

Camera Model	FC-Series S	FC-Series S
Array Format (NTSC)	320 x 240	640 x 480
Detector Type	Long-Life, Uncooled VOx Microbolometer	
Effective Resolution	76,800	307,200
Pixel Pitch	25 µm	17 µm
Field of View	63° × 50° (FC-363; 7.5 mm) 48° × 39° (FC-348; 9 mm) 34° × 28° (FC-334; 13 mm) 24° × 19° (FC-324; 19 mm) 13° × 10° (FC-313; 35 mm) 9° × 7° (FC-309; 35 mm, 17 µm)	90° × 69° (FC-690; 7.5 mm) 69° × 56° (FC-669; 9 mm) 45° × 37° (FC-645; 13 mm) 32° × 26° (FC-632; 19 mm) 18° × 14° (FC-618; 35 mm)
Zoom	Continuous eZoom, up to 4X	
Spectral Range	7.5 µm to 13.5 µm	
Focus Range	Athermalized, focus-free	
Outputs		
Composite Video NTSC or PAL	Yes; hybrid system with IP & analog video	
Video over Ethernet	Two independent channels of H.264, MPEG-4 & M-JPEG (see website for full details)	
Streaming Resolution	D1: 720x576, 4CIF: 704x576, Native: 640x512, Q-Native: 320x256, CIF: 352x288, QCIF: 176x144	
Control		
Ethernet	Yes	
External Analytics Compatible	Yes	
Network APIs	Nexus SDK for comprehensive system control and integration Nexus CGI for http command interfaces ONVIF 2.0 Profile S	
General		
Weight	4.0 lb (1.8 kg) w/o sun shield 4.8 lb (2.2 kg) w/sun shield	
Dimensions (L, W, H)	9.2″ x 4.6″ x 4.1″ w/o sun shield 10.8″ x 5.4″ x 4.4″ w/ sun shield	
Input Voltage (Consult product manuals for feature/ power requirements)	11-44 VDC (no lens heaters) 16-44 VDC (w/lens heaters) 14-32 VAC (no lens heaters) 16-32 VAC (w/lens heaters) PoE (IEEE 802.3af-2003) PoE+ (IEEE 802.3at-2009)	
Input Voltage	12–38 VAC 11–56 VDC PoE (IEEE 802.3af-2003) PoE+ (IEEE 802.3at-2009)	
Power Consumption (Consult product manuals for detailed power requirements)	24 VDC 5 W nominal 21 W peak (w/heaters) 24 VAC 8 VA nominal 29 VA peak (w/heaters)	
Approvals	FCC Part15, Subpart B, Class B CE: EN 55022 Class B	
Surge Immunity on AC Power Lines	EN 55024: 2010 and 55022: 2010 to 4.0kV on AC aux power lines	
Surge Immunity on Signal Lines	EN 55024: 2010 and 55022: 2010 to 4.0kV	
Environmental		
IP Rating	IP66 & IP67	
Operating Temperature Range	-50°C to 70°C (continuous operation) -40°C to 70°C (cold start)	
Storage Temperature Range	-55°C to 85°C	
Humidity	0-95% relative	
Shock	MIL-STD-810F "Transportation"	
Vibe	IEC 60068-2-27	
Image Optimization Features		
Thermal AGC Modes	Auto AGC, Manual AGC, Plateau Equalization AGC, Linear AGC, Auto Dynamic Detail Enhancement (DDE), Max Gain Setting	
Thermal AGC Region of Interest (ROI)	Default, Presets and User definable to insure optimal image quality on subjects of interest	
Image Uniformity Optimization	Automatic Flat Field Correction (FFC) - Thermal and Temporal Triggers	

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