FC-Series R

FLIR
FC-SERIES R

Fixed Network Thermal Cameras

The FC-Series R features on-board, non-contact temperature measurement capabilities for fire detection, safety, and thermal monitoring of substations, waste disposal, and valuable equipment. FC-Series R combines state-of-the-art image detail and on-board video analytics. FC-Series R provides reliable detection and flexible alarming options by email, web and mobile apps, edge image storage, digital outputs, or VMS event notifications.

ON-BOARD TEMPERATURE MEASUREMENT & ALARMS

Calibrated for fire detection, safety, and thermal monitoring of equipment

- On-screen temperature value displays

- Up to four temperature measurement tools – spots or boxes

- Flexible integration tools allow temperature data and alarms to be integrated into a wide variety of external monitoring and control systems
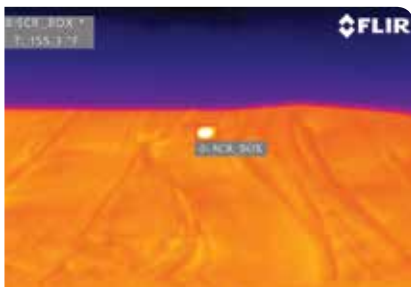
FEATURE-RICH EDGE ANALYTICS

Powerful on-board analytics capable of classifying human or vehicle intrusions

- Multiple alarm notification options, including email, digital outputs or VMS alarms

- Ideal for use with third-party analytics, including those provided by FLIR's partners around the world

- Camera configuration via web interface, FSM PC application or mobile apps

- ONVIF compliant – interoperable with most video management systems

RUGGED INDUSTRIAL DESIGN

Durable enclosure protects camera from dust, water, and is submersible up to one meter

- Thermal cameras with both IP66 and IP67 ratings. Plus it's shock, vibration, and corrosion-resistant

- Multiple fields of view and resolution options; supports optimal camera selection and deployments

- PoE, AC and DC inputs, analog and network outputs

Coal pile monitoring

With the FC-Series R camera, you can monitor the temperature of a specific area. When the pre-set temperature has been reached or exceeded, you'll receive a notice by email, digital output or VMS alarm.

HOSKIN SCIENTIFIC LTD   **www.hoskin.ca**   Vancouver | Burlington | Montreal

(604) 872-7894   (905) 333-5510   (514) 735-5267

Specifications

Camera Model	FC-Series R	FC-Series R
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	34° × 28° (FC-334R; 13 mm) 24° × 19° (FC-324R; 19 mm)	45° × 37° (FC-645R; 13 mm) 32° × 26° (FC-632R; 19 mm)
Zoom	Continuous E-zoom, up to 4X	
Spectral Range	7.5 µm to 13.5 µm	
Focus Range	Athermalized, focus-free	
Temperature Measurement		
Measurement Range	-10°C to 110°C	
Measurement Accuracy	+/-5°C or 5% of reading	
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 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)	
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	