\$FLIR



thermal analytics camera FC-SERIES R

The FC-Series R features non-contact temperature measurement capability for early fire detection and thermal monitoring of substations, waste disposal facilities, or valuable equipment. FC-Series R combines state-of-the-art image detail and onboard video analytics for superior continuous monitoring. Flexible alarm options via email, web and mobile apps, edge image storage, or VMS event notifications offer quick and reliable incident detection.

Pyramid Imaging

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www.flir.com/products/fc-series-r-automation/



ONBOARD TEMPERATURES 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
- Dynamic Detail Enhancement (DDE) creates sharp edges and contrast to improve analytics



FEATURE-RICH EDGE ANALYTICS

Powerful onboard analytics capable of classifying humans or vehicle intrusions

- Multiple alarm notification options, including email, digital outputs, or VMS alarms
- Auto-calibration for depth setup, allowing simple and reliable configuration
- 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 water and is submersible up to one meter

- IP66 and IP67 rated
- Shock, vibration, and corrosion resistant
- Multiple fields of view and resolution options
- PoE, AC and DC inputs, analog and network outputs

SPECIFICATIONS

		FC 3xx R-Se	eries		FC 6xx R-Se	eries	
Image							
Array format (NTSC)		320 × 240)		640 × 480)	
Detector type	Long-life, uncooled VOx microbolometer						
Spectral range	7.5 µm to 13.5 µm						
Effective resolution		76,800 pixels			307,200 pixels		
Pixel pitch		7.5 µm to 13.5	μm		7.5 µm to 13.5	μm	
Thermal frame rate	NTSC: 30 Hz - PAL: 25 Hz / 8.3 Hz						
E-Zoom	4x continuous E-Zoom						
Focus	Athermalized, focus-free						
Sensitivity	<35 mK for F# 1.0 optics						
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 × BNC 75Ω						
Video compression	Two independent channels of H.264 (restricted VBR and CBR,10 kbps-4 Mbps, MPEG4, and MJPEG)						
Streaming resolution	D1: 720 × 576, 4CIF: 704 × 576, Native: 640 × 512, Q-Native: 320 × 256, CIF: 352 × 288, QCIF: 176 × 144						
Thermal AGC modes features	Brightness, contrast, sharpness, grey shade compression, gamma, smart screen balance						
Thermal AGC Region of Interest (ROI)	Default, presets, and user-definable to insure optimal image quality on subjects of interest						
Analytics management	Web-based confguration and management. Masking of analytic detection areas, adjustable sensitivity, automatic responses, remote I/O control						
Analytics features	Region entrance/intrusion detection, crossover/fence trespassing						
Image uniformity optimization	Automatic Flat Field Correction (FFC); thermal and temporal triggers						
SD card snapshot capture	Support for 32 GB SD card (sold separately)						
System Integration							
Ethernet	10/100 Mbps						
External analytics compatible	Yes						
Control input/output	1× dry contact in; 1× relay out (rated load 0.025 A @ 5 V DC)						
Network APIs	FLIR SDK, FLIR CGI, ONVIF profile S						
Network							
Supported protocols	IPV4, HTTP, Bonjour, UPnP, DNS, NTP, RTCP, TCP, UDP, ICMP, IGMP, DHCP, ARP, FTP, RTP/RTSP, Unicast/ Multicast, TCP/IP, HTTP, IEEE 802.1X						
General							
Weight with 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.)						
Weight without 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.)						
Dimensions (L \times W \times 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 (802.3af)	POE+ (802.3at)	12 V DC	24 V DC	24 V AC (VA)	
	Heater off	<5.5 W	<5.5 W	<5.5 W	<5.5 W	<8 W	
	Heater on (@ 100%)	N/A	<25 W	<25 W	<25 W	<32 W	
Surge immunity on AC power lines	CE: EN55032 Class A; FCC 47 CFR Part 15, Subpart B, Class A (within CISPR 22:2008 Class A limits)						
Surge immunity on signal lines	EN 55024: 2010 and 55032: 2010 to 4.0 kV on AC aux power lines; FN 50130-4:2011: IFC 62599-2:2010						

Environmental				
IP rating (dust & water ingress)	IP66 & IP67			
Operating temperature range	-50°C to 70°C/-58°F to 158°F (continuous operation) -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	MIL-STD-810G "Transportation"			
Vibe	IEC 60068-2-27			
De-icing / anti-icing	MIL-STD-810 F, Method 521.2 - 6 mm ice, 120 minutes with POE+, 4 mm ice with POE af FC-304, FC-305, FC-610 & FC-608 with Cold weather kit - not yet available			
Warranty & Regulatory				
Approvals	CE: EN55032 Class A; FCC 47 CFR Part 15, Subpart B, Class A (within CISPR 22:2008 Class A limits)			
Certifications	IEC 60068-2-1:2007; IEC 60068-2-2:2007; ISTA-1A (handling)			
Compliance	RoHS Directive 2011/65/EU; WEEE 2012/19/EU			
Warranty	Camera: 3 years Sensor: 10 years			

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