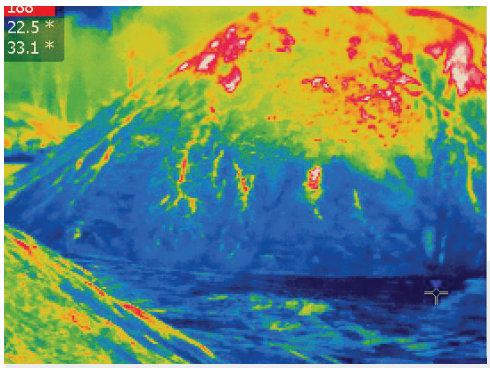
THERMAL ANALYTICS CAMERA

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.

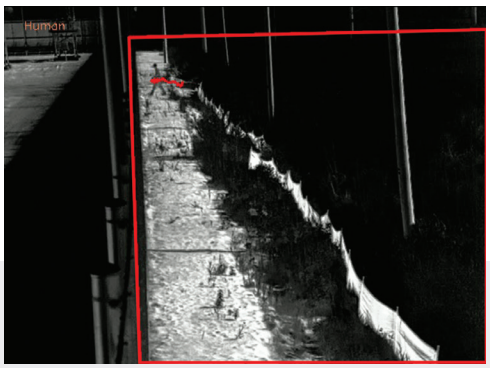
www.flir.com/products/fc-series-r-automation/



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-Series	FC 6xx R-Series
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 × 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 (802.3af)	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; EN 50130-4:2011; IEC 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

CORPORATE HEADQUARTERS
FLIR Systems, Inc.
27700 SW Parkway Ave.
Wilsonville, OR 97070
USA
PH: +1 877.773.3547

CANADA
FLIR Systems
3430 S Service Rd Suite 103
Burlington, ON L7N 3J5
Canada
PH: +1 800.613.0507

www.flir.com
NASDAQ: FLIR

FLIR® | The World's Sixth Sense®