

FC-Series





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.

FLIR FC-SERIES R Thermal imaging Cameras for Critical Equipment Monitoring

Fixed-mounted thermal imaging cameras like the FLIR FC-Series R can be installed almost anywhere to monitor your critical equipment and other valuable assets. It will safeguard your plant and measure temperature differences to assess the criticality of a given situation. The new FLIR FC-Series R features on-board, non-contact temperature measurement capabilities for

fire detection, safety, and thermal monitoring of equipment. FLIR FC-Series R allows you to see problems before they become costly failures, preventing downtime and enhancing worker safety.

EXCELLENT IMAGE QUALITY

All FC-Series R thermal imaging cameras contain an uncooled, maintenancefree Vanadium Oxide (VOx) microbolometer detector. Some models produce crisp thermal images of 640 x 480

Pixes. Users that do not need this high image quality can choose for 320 x 240 pixels versions. Various lens options are available.

TEMPERATURE MEASUREMENT

FLIR FC-Series R are fully calibrated thermal imaging cameras that allow you to measure temperatures from a safe distance.

BUILT-IN ANALYSIS AND ALARM FUNCTIONS

FC-Series R comes standard with built-in analysis functions like spot, area measurement and difference temperature. Alarms can be set to go off as a function of analysis, internal temperature or digital input. The camera automatically sends analysis results, IR images and more as an e-mail on schedule or at alarm. Autonomous dispatch of files or e-mails, acting as an FTP- or SMTP-client is possible.



Specifications

Camera Model	FC-Series R	FC-Series R
Array Format (NTSC)	320 × 240	640 × 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)	45° × 37° (FC-645R; 13 mm)
	24° × 19° (FC-324R; 19 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 Measuremen	t	
Measurement Range	-10°C to 110°C	
Measurement Accuracy	+/-5°C or 5% of reading	
Outputs		
Composite Video NTSC or PAL	Yes; Hybrid system v	vith IP & Analog video
Video over Ethernet	Two independent channels c (see website	if H.264, MPEG-4 & M-JPEG for full details)
Streaming Resolution	D1: 720x576, 4CIF: 704x576, Native 352x288, Q	e: 640x512, Q-Native: 320x256, CIF: CIF: 176x144
Control		
Ethernet	Y	es
External Analytics Compatible	Y	es
Network APIs	Nexus SDK for comprehensive Nexus CGI for http command	system control and integration interfaces ONVIF 2.0 Profile S
General		
Weight	4.0 lb (1.8 kg) 4 8 lb (2 2 kg	w/o sun shield) w/sun shield
Dimensions (L, W, H)	9.2" x 4.6" x 4.1 10.8" x 5.4" x 4	" w/o sun shield
Input Voltage	11-44 VDC (no lens heaters)	
(Consult product manuals for feature/	16-44 VDC (v	v/lens heaters)
power requirements)	14-32 VAC (n	b lens heaters)
	16-32 VAC (M Poe (Ieee a	//lens heaters) 02 3af-2003)
	PoE+ (IEEE 8	302.3at-2009)
Input Voltage	12–3	8 VAC
	11-50	3 VDC
	POE (IEEE 8 PoE+ (IEEE 8	02.3at-2003) 302.3at-2009)
Power Consumption	24	VDC
(Consult product manuals for	5 W n	ominal
detailed power requirements)	21 W peak	(w/heaters)
	24 8.\/Δ r	VAC
	29 VA peak	(w/heaters)
Approvals	FCC Part15, Su	bpart B, Class B
	CE: EN 55	022 Class B
Surge Immunity on AC Power Lines	EN 55024: 2010 and on AC aux	55022: 2010 to 4.0kV 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 (co -40°C to 70°	ntinuous operation) °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 E Dynamic Detail Enhanceme	qualization AGC, Linear AGC, Auto ent (DDE), Max Gain Setting
Thermal AGC Region of Interest (ROI)	Default, Presets and User def quality on sub	inable to insure optimal image ects of interest
Image Uniformity Optimization	Automatic Flat Fie	ld Correction (FFC)
	Thermal and Te	mporal Iriggers

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