



Fixed Network Thermal Cameras

FLIR Elara FC-Series R™



The Elara FC-Series R features onboard non-contact temperature measurement for fire detection, improved safety, and thermal monitoring of substations, industrial waste, and valuable equipment. The Elara FC-Series R combines state-of-the-art image detail and reliable radiometric detection. Flexible alarm options include email, edge image storage, digital outputs, and VMS event notifications.

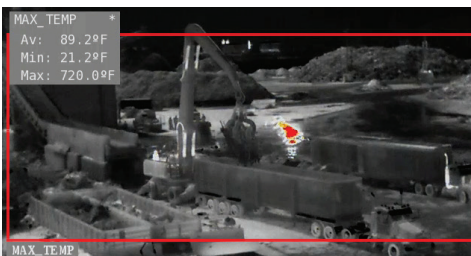
www.flir.com/security



ONBOARD TEMPERATURE MEASUREMENT & ALARMS

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

- On-screen temperature value displays
- Up to four temperature measurement tools
- Flexible integration tools allow temperature data and alarms to be integrated into a wide variety of external monitoring and control systems



INDUSTRY-LEADING IMAGE QUALITY

Superior thermal image quality in low-contrast conditions.

- Multiple sensor resolutions and lens options offer specialized imaging in extreme environments
- Custom AGCs provide unmatched image contrast
- Digital Detail Enhancement (DDE) produces sharp edges on objects of interest



RUGGED INDUSTRIAL DESIGN

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

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

SPECIFICATIONS

Image and optical data	FC-324R/334R	FC-632R/645R	General
Detector Type	Long-Life, Uncooled VOx Microbolometer		Weight
Array Format (NTSC)	320 × 240	640 × 480	4.0 lb (1.8 kg) w/o sun shield 4.8 lb (2.2 kg) w/ sun shield
Effective Resolution	76,800 pixels	307,200 pixels	Dimensions (L, W, H)
Pixel Pitch	25 μm	17 μm	9.2" × 4.6" × 4.1" w/o sun shield 10.8" × 5.4" × 4.4" w/ sun shield
Field of View	24° × 19° (FC-324R; 19 mm) 34° × 28° (FC-334R; 13 mm)	32° × 26° (FC-632R; 19 mm) 45° × 37° (FC-645R; 13 mm)	Input Voltage (consult product manuals for feature/power requirements)
Zoom	Continuous E-zoom up to 4x		11-44 VDC (w/o lens heaters) 16-44 VDC (w/ lens heaters) 14-32 VAC (w/o lens heaters) 16-32 VAC (w/ lens heaters) PoE (IEEE 802.3af-2003) PoE+ (IEEE 802.3at-2009)
Spectral Range	7.5 μm to 13.5 μm		Power Consumption (consult product manuals for detailed power requirements)
Focus Range	Athermalized, focus-free		24 VDC 5 W nominal 21 W peak (w/ heaters) 24 VAC 8 VA nominal 29 VA peak (w/ heaters)
Temperature Measurement			Approvals
Measurement Range	-10°C to 110°C		FCC Part 15, Subpart B, Class B CE: EN 55022 Class B
Measurement Accuracy	±5°C or 5% of reading		Surge Immunity of AC Power Lines
Outputs			EN 55024: 2010 and 55022: 2010 to 4.0 kV on AC aux power lines
Composite Video NTSC or PAL	Yes; hybrid system with IP & analog video		Surge Immunity on Signal Lines
Video over Ethernet	Two independent channels of H.264, MPEG-4, and M-JPEG (see website for full details)		EN 55024: 2010 and 55022: 2010 to 4.0 kV
Streaming Resolution	D1: 720 × 576, 4CIF: 704 × 576, Native: 640 × 512, Q-Native: 320 × 256, CIF: 352 × 288, QCIF: 176 × 144		Environmental
Control			IP Rating
Ethernet	Yes		IP66 & IP67
External Analytics Compatible	Yes		Operating Temperature Range
Network APIs	Nexus SDK for comprehensive system control and integration, Nexus CGI for http command interfaces, ONVIF Profile S		-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 ensure optimal image quality of subjects of interest
			Image Uniformity Optimization
			Automatic Flat Field Correction (FFC), Thermal and Temporal Triggers

Specifications are subject to change without notice. For the most up-to-date specs, go to www.flir.com

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