



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.

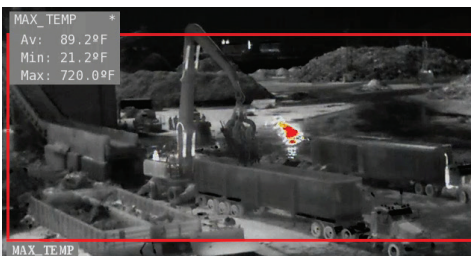
www.flir.com/security



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

Detector Type	Long-Life, Uncooled VOx Microbolometer
Array Format (NTSC)	640 × 480
Effective Resolution	307,200 pixels
Pixel Pitch	17 μm
Field of View	32° × 26° (FC-632R; 19 mm) 45° × 37° (FC-645R; 13 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, and M-JPEG (see website for full details)
Streaming Resolution	D1: 720 × 576, 4CIF: 704 × 576, Native: 640 × 512, Q-Native: 320 × 256, CIF: 352 × 288, QCIF: 176 × 144

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" × 4.6" × 4.1" w/o sun shield 10.8" × 5.4" × 4.4" w/ sun shield
Input Voltage (consult product manuals for feature/power requirements)	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)
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 Part 15, Subpart B, Class B CE: EN 55022 Class B
Surge Immunity of AC Power Lines	EN 55024: 2010 and 55022: 2010 to 4.0 kV on AC aux power lines
Surge Immunity on Signal Lines	EN 55024: 2010 and 55022: 2010 to 4.0 kV

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 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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