CRITICAL MONITORING AT A DISTANCE

PREDICTIVE MAINTENANCE MADE EASY

Our NEMA 4X fixed mounted thermal management systems are designed to provide remote detection capabilities at safe distances. Since its inception, the stainless steel enclosed devices have been utilized to monitor critical equipment, flares, flare pilots, electrical connections, and tank levels in realtime. Perfect for finding and locating critical failures as well as abnormal temperatures in pipelines and storage facilities.



FMX 400 Thermal Management System camera not shown to scale



ENVIRONMENTALLY PROTECTED

Our thermal device management systems include NEMA 4X rated IP66 stainless steel enclosures to protect against dirt, dust, and other particulates. They have been installed aboard ships as well as oil platforms and withstand high pressure jets as well as salt water exposure.



ALARMING FUNCTIONS

Pair the internal infrared device with our IR Flash Pro software and enable the built-in alarming features to receive notifications when thresholds are exceeded. Reduces response time in critical situations. Collect quantitative temperature data for in-depth thermal analysis of hot spots and detect changes over time in order to locate failures before they happen.



REAL-TIME THERMAL IMAGING

Provides quality resolution thermal images streamed in real-time via Ethernet connection. Multiple color palettes are available to enhance viewing and easily find hot spots. Perfect for industrial and petrochemical monitoring.

ICI cameras fall under US Federal Law and Export Control.

FMX 400 P-SERIES THERMAL MANAGEMENT SYSTEM



The FMX 400 P-Series is a 384 x 288 imager with unmatched sensitivity and an accuracy of ± 2 °C (± 3.6 °F) or $\pm 2\%$. It provides real-time thermal imaging of temperatures between -20 °C to 120 °C (-4 °F to 248 °F). Our FMX 400 is designed for fixed mounted applications. Integrate it with our stainless steel, explosion proof housing for imaging flares or hard to access areas. The FMX 400 has IP 54 protection and includes IR Flash Pro software for thermal analysis.

Features

Applications

- Unmatched image sensitivity
- Radiometric data streaming
- 10 Color palettes
- Alarms trigger
- Spot/Area/Isotherm
- Small size
- Light weight
- Low power, < 3 W

Specifications

- Process control monitoring
- Industrial vision systems
- Predictive maintenance
- Reliability engineering
- Electrical/electronics monitoring

NEMA 4X explosion proof housing

- Scientific research
- Building automation
- Security monitoring

Options

Standard tripod

- Pixel Resolution: 384 x 288
- Accuracy: ± 2 °C (± 3.6 °F) or ± 2%
- Temperature Range: -20 °C to 120 °C (-4 °F to 248 °F)
- Operation Range: -10 °C to 60 °C (14 °F to 140 °F)
- Storage Range: -20 °C to 65°C (-4 °F to 149 °F)
- Detector Array: UFPA
- Pixel Pitch: 17 µm
- FOV: 47° x 35.6°
- FOV: 47° x 35.6° • Focus: electronic
- Focus: electronic
- Measurement Distance: lens dependent
- Spectral Band: 8 μm 14 μm
- Thermal Sensitivity (NETD):
- < (40 mK) 0.04 °C at 30 °C (86 °F)
- Frame Rate: 50 Hz NTSC/PAL
- Dynamic Range: 14-bit
- Humidity: 5% to 95% non-condensing
- Pixel Operability: > 99%
- Shock/Vibration: 30 G/4.3 G
- Dimensions:
- 119 mm x 55 mm x 55 mm (L x W x H +/- 0.5 mm) (4.69" x 2.17" x 2.17" (L x W x H ± 0.02"))
- **Power:** DC 110V 10 36, < 3 W
- Weight (without lens): < 370 g (13.05 oz)
- Interface: RJ-45 Ethernet
- Video: raw data
- Emissivity Correction: 0.01 to 1.0
- Protection: IP 54
- Internal non-uniformity correction (NUC)
- 1/4"-20 tripod support



FMX 400 P-Series

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