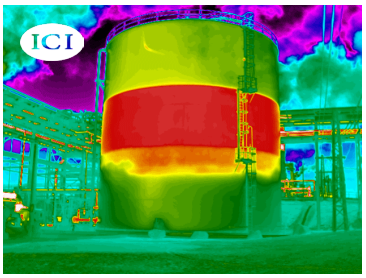
ICI | INFRARED CAMERAS INC

CRITICAL MONITORING AT A DISTANCE

EASILY MONITOR EQUIPMENT

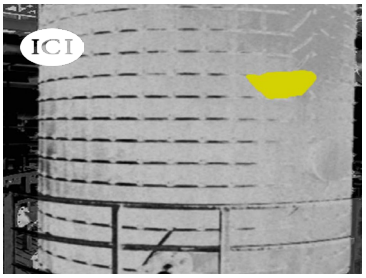
Remote fixed mounted thermal management systems are designed to provide detection capabilities of hard-to-reach areas or places where safety is a concern. FMX 400 devices have been utilized to monitor critical equipment, flares, flare pilots, electrical connections, and tank levels in real-time. Perfect for finding and locating critical failures as well as abnormal temperatures in pipelines and storage facilities.

FMX 400 P-Series



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.



ALARMING FUNCTIONS

Pair the 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.

ENVIRONMENTALLY PROTECTED

Take the FMX 400 to extreme environments with our explosion-proof, stainless steel thermal device enclosures. They are rated NEMA 4X and IP66 to protect against dirt, dust, and other particulates. The systems have been installed aboard ships as well as oil platforms and withstand high pressure jets as well as salt water exposure.

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FMX 400 P SERIES
FOR CRITICAL MONITORING

Industry

The FMX 400 P-Series is a 384 x 288 imager with unmatched sensitivity and an accuracy of ± 0.3°C (0.54°F). It provides real-time thermal imaging of temperatures between 0°C to 60°C (32°F to 140°F). Our FMX 400 is designed for fixed mounted applications and has IP54 protection. Integrate the device with our stainless steel, explosion-proof housing for imaging objects in hard-to-reach areas or extreme environments. Pair with ICI's SmartIR software to unlock asset performance trends and inform predictive maintenance

Features

- Unmatched image sensitivity
- Radiometric data streaming
- 10 pseudo-color palettes
- Alarms trigger
- Spot/Area/Isotherm
- Small Size, light weight
- Low power, < 3 W

Applications

- Process control monitoring
- Industrial vision systems
- Predictive maintenance
- Reliability engineering
- Electrical/electronics monitoring
- Scientific research
- Building automation
- Security monitoring

Specifications

- **Pixel Resolution:** 384 x 288
- **Accuracy:** ± 0.3°C (0.54°F)
- **Temperature Range:** 0°C to 60°C (32°F to 140°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
- **Focal Length:** 19 mm
- **FOV:** 47° x 35.6°
- **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:** IP54
- Internal non-uniformity correction (NUC)
- 1/4"-20 tripod support

Options

- Optional: 1/4"-20 tripod
- Optional: explosion proof housing for NEMA 9 Class 1, Div.1, Class 1 Div.2

FMX 400 P-Series

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