

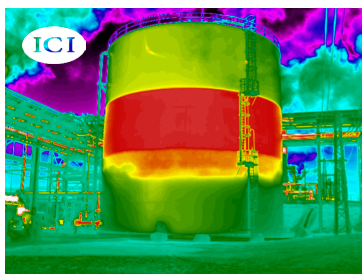
CRITICAL MONITORING AT A DISTANCE

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 700 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.

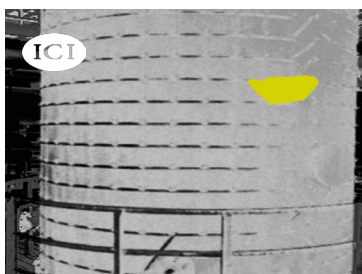


FMX 700 P-Series



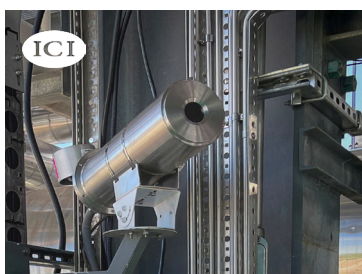
REAL-TIME THERMAL IMAGING

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 700 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.

FMX 700 P SERIES FOR CRITICAL MONITORING



The FMX 700 P-Series is a highly sensitive 640 x 512 imager with an accuracy of $\pm 0.3^{\circ}\text{C}$ (0.54°F). It provides real-time thermal imaging of temperatures between 0°C to 60°C (32°F to 140°F). It is designed for fixed mounted applications and has IP54 protection. Integrate the FMX 700 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
- Displays real time color thermal images
- 10 Color palettes
- Alarms trigger
- Spot/Area/Isotherm
- Small Size, light weight
- Low power, < 3.3 W

Specifications

- **Pixel Resolution:** 640 x 512
- **Accuracy:** $\pm 0.3^{\circ}\text{C}$ (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 (VOx)
- **Pixel Pitch:** 12 μm
- **Focal Length:** 13 mm
- **FOV:** 33.7° x 27°
- **Focus:** electronic
- **Measurement Distance:** lens dependent
- **Spectral Band:** 8 μm - 14 μm
- **Thermal Sensitivity (NETD):**
< (50 mK) 0.05°C at 30°C (86°F)
- **Frame Rate:** 25 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 \pm 0.02"))
- **Power:** 10V - 36V DC, < 3.3 W
- **Weight (without lens):** < 370 g (13.05 oz)
- **Interface:** RJ-45 Ethernet
- **Protocols:** TCP, UDP, ICMP, DHCP, RTSP
- **Video:** raw data
- **Polarity:** 10 options
- **Emissivity Correction:** 0.01 to 1.0
- **Protection:** IP54
- Internal non-uniformity correction (NUC)
- 1/4"-20 tripod support

Applications

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

Options

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



FMX 700 P-Series