

# FMX 400 P SERIES IR CAMERA



The FMX 400 P Series IR Camera is a 50 Hz imager with unmatched sensitivity and accuracy. It is a 384 x 288 radiometric imager that provides real-time thermal imaging and is designed to be used adjunctively with other diagnostic tools. The FMX 400 has IP 54 protection, and optional NEMA 9 Class 1 Div.1, Class 1 Div.2 when paired with stainless steel, explosion proof housing. Includes IR Flash STM software for analysis.

## Features

- Unmatched image sensitivity
- Displays real time color thermal images
- 10 Color palettes
- Alarms trigger
- Spot/Area/Isotherm
- Small Size, light weight
- Low power

## Specifications

- **Detector Array:** UFPA
- **Pixel Pitch:** 17  $\mu$ m
- **FOV:** 47° x 35.6°
- **Measurement Distance:** lens dependent
- **Pixel Resolution:** 384 x 288
- **Spectral Band:** 8  $\mu$ m - 14  $\mu$ m
- **Thermal Sensitivity (NETD):**  
< (40 mK) 0.04 °C at 30 °C (86 °F)
- **Frame Rate:** 50 Hz NTSC/PAL
- **Dynamic Range:** 14-bit
- **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)
- **Humidity:** 5% to 95% non-condensing
- **Accuracy:**  $\pm$  0.3 °C (0.54 °F)
- **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:** 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
- Built-in shutter

## Applications

- Skin temperature measurement
- Hospital healthcare procedures
- Healthcare robotics
- Radiometric imaging
- Scientific research
- Breast imaging
- Sub-acute healthcare settings

## Options

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



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**THIS DEVICE IS INTENDED FOR ADJUNCTIVE USE WITH OTHER CLINICAL DIAGNOSTIC PROCEDURES TO MEASURE HUMAN BODY TEMPERATURE VIA NON-CONTACT SKIN MEASUREMENTS VISUALIZED FROM THE HUMAN FACE. NOT MEANT FOR STANDALONE CLINICAL DIAGNOSTIC PROCEDURES OR TO TREAT OR DIAGNOSE PATIENTS.**