

# FM 400 P SERIES IR CAMERA



The ICI FM 400 P Series IR Camera offers precise non-contact skin temperature measurements. It is highly accurate providing rapid-control response. Visual and audio alarms give feedback in  $\leq 0.5$  seconds. Our imager provides real time radiometric data streamed directly to any desktop, laptop, tablet, or embedded system in 384 x 288 resolution. The FM 400 P Series is energy efficient at  $\leq 3$  W of power. Suggested for wide use in airports, railways, stations, terminals, schools, and other densely populated places, to achieve rapid screening and avoid congestion. Windows and Linux software, drivers and SDK are available for custom applications.

## Features

- Highly accurate
- Radiometric data streaming
- Automatic real time alarm
- Sound and image alarms
- Windows and Linux software
- Compact design, light weight
- Low power  $\leq 3.0$  W
- Drivers and SDK available

## Specifications

- **Detector Array:** UFPA (VOx)
  - **Pixel Pitch:** 17  $\mu\text{m}$
  - **FOV:** 47° x 35.6°
  - **Measurement Distance:** lens dependent
  - **Pixel Resolution:** 384 x 288
  - **Spectral Band:** 8  $\mu\text{m}$  to 14  $\mu\text{m}$
  - **Thermal Sensitivity (NETD):**  
< (40 mK) 0.04 °C at 30 °C (86°F)
  - **Frame Rate:** 50 Hz
  - **Dynamic Range:** H 264 14-bit
  - **Temperature Range:** 0 °C to 60 °C (32 °F to 140 °F)
  - **Operation Range:** -10 °C to 50 °C (14 °F to 122 °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:** 75 G/4 G
  - **Dimensions (without lens):**  
220 mm x 145 mm x 92 mm (L x W x H  $\pm 0.5$  mm)  
(8.66" x 5.75" x 3.62" (L x W x H  $\pm 0.02$ "))
  - **Power:** 12V DC 1 A, < 3 W
  - **Weight (without lens):** < 2420 g (5.34 lbs)
  - **Interface:** RJ-45 Ethernet
  - **Video:** radiometric IR and H.264 visible
  - **Emissivity Correction:** 0.01 to 1.0
  - **IP Rating:** IP 54
  - Built-in shutter
  - Aluminum enclosure
- **Visible Camera:** 1920 x 1080

## Applications

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

## Options

- Optional: 1/4"-20 tripod
- 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.**