



The ICI FMX HT-400 is a 384 × 288 temperature measurement device capable of imaging metals including molten steel. It delivers sharp and clear images even at high operating temperatures making it perfect for monitoring welds, imaging the sun, performing research, or any application where precision, high temperature measurements greater than 1500°C (2732°F) are required. The FMX HT-400 monitors equipment in real time and warns of a failure before it happens, saving money by preventing equipment damage, reducing production downtime, and keeping personnel safe.

## Features

- Ultra-high temperature calibration
- Real-time temperature monitoring
- High frame rate provides smooth thermal image
- Solid aluminum housing protects equipment from damage
- Standard interface and mounting for easy installations
- Efficient design suitable for compact environments

## Applications

- Molten & solid metals, including steel
- Molten glass & ceramics
- Welding & kiln monitoring
- Solar imaging
- Laser imaging
- Light bulb filaments
- Scientific research

## Options

- Optional: 1/4"-20 tripod



FMX HT-400 P-Series

## Specifications

- **Pixel Resolution:** 384 × 288
- **Accuracy:** ± 2°C (± 3.6°F) or 2% of reading, whichever is the greater @100°C to 1500°C (212°F to 2732°F)
- **Temperature Range:**
  - 0°C to > 400°C (32°F to > 752°F)
  - 400°C to > 1500°C (752°F to > 2732°F)
- **Operation Range:** 20°C to 60°C (68°F to 140°F)
- **Storage Range:** -40°C to 70°C (-40°F to 158°F)
- **Detector Array:** UFPA (VOx)
- **Pixel Pitch:** 17 μm
- **Focal Length:** 9.7 mm
- **FOV:** 37.9° × 28.7°
- **IFOV:** 1.753mrad
- **Focus:** fixed
- **Spectral Band:** 8 μm to 14 μm
- **Thermal Sensitivity (NETD):**
  - < (50 mK) 0.05 °C at 30 °C (86°F)
- **Frame Rate:** 50 Hz
- **Humidity:** 5% to 95% relative, non-condensing
- **Shock/Vibration:** 30 G/4.3 G
- **Dimensions (without lens):**
  - 62mm×62mm×144mm (LxWxH ± 0.5mm)
  - (2.44" × 2.44" × 5.67" (LxWxH ± 0.02"))
- **Power:** 9-26VDC, ≤3.3W
- **Weight (with 25mm lens):** < 543 g (1.1 lbs)
- **Analog Output:** 1 channel video
- **Network Output:** RJ-45 Ethernet
- **Network Interface:** 1 channel input, 1 channel output
- **Network Protocol:** TCP, UDP, SNTP, RTSP, HTTP, ICMP, SMTP, DHCP, UPnP, PPPOE
- **Interface Protocol:** ONVIF, GB28181, Modbus TCP, Ethernet/IP
- **Image Polarity:** monochrome with 18 palette options
- **Brightness:** Manual/Auto 0 (default)/Auto 1
- **Image Reverse:** left and right/up and down/diagonal
- **IP Rating:** IP65
- Internal non-uniformity correction (NUC)
- **Measurement Tools:** Fixed/center spot, highest/lowest temperature measurement; Analysis tool for line/area monitoring; Line/area analysis tool; Manual temperature range selection; Radar temperature measurement tool