



The ICI FMX HT-640 is a 768 x 576 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-640 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

- High temperature calibration
- High Dynamic Range imaging
- Radiometric visible camera
- Narrow bandpass filter
- Monochrome

Applications

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

Specifications

- **Pixel Resolution:** 768 x 576
- **Accuracy:** $\pm 2^{\circ}\text{C}$ ($\pm 3.6^{\circ}\text{F}$) or 2% of reading
- **Temperature Range:**
650°C to > 1500°C (1202°F to > 2732°F)*
- **Operation Range:** -20°C to 50°C (-4°F to 122°F)
- **Storage Range:** -40°C to 70°C (-40°F to 158°F)
- **Pixel Pitch:** 15 μm
- **FOV:** 22° x 17.6°
- **IFOV:** 0.6 mrad
- **Focal Length:** 25 mm
- **Focus:** fixed
- **Spectral Band:** 0.5 μm to 0.54 μm
- **Frame Rate:** 30 Hz
- **Shock/Vibration:** 25 G/2 G
- **Dimensions (without lens):**
152 mm x 101 mm x 76 mm (L x W x H ± 0.5 mm)
(5.98" x 3.98" x 2.99" (L x W x H ± 0.02 "))
- **Power:** 5V DC
- **Weight (without lens):** < 500 g (1.1 lbs)
- **Interface:** RJ-45 Ethernet
- **Image Polarity:** monochrome
- **IP Rating:** IP65
- Internal non-uniformity correction (NUC)

Options

- Optional: 1/4"-20 tripod



FMX HT-640 P-Series

* The FMX HT-640 has been used to measure temperatures up to 3000°C (5432°F)