

FMX HT-640 (HIGH TEMPERATURE)

The ICI FMX HT-640 is a 640 x 512 high temperature infrared camera capable of imaging all metals including molten and solid steel. Monitor welds, light bulb filaments, and molten glass. Our ICI FMX HT-640 is also useful for imaging the sun, scientific research, laser imaging, ceramics, or any application where precision high temperature measurements up to 3000 °C are required. Narrow bandpass filter.

Features

- Measure surface temperature of molten metals
- Provides measurement corrections for emissivity, ambient temperature, distance, and relative humidity.
- Adaptable units, language, and date & time
- Connects to USB devices
- 8 color palettes

Specifications

- **Detector Array:** UFPA (VOx)
- **FOV:** lens dependent
- **Measurement Distance:** lens dependent
- **Focus:** fixed
- **Pixel Resolution:** 640 x 512
- **Spectral Band:** 0.5 μm to .54 μm
- **Thermal Sensitivity (NETD):** < 0.01 °C at 30 °C (10 mK)
- **Frame Rate:** 30 Hz
- **Temperature Range:** 600 °C to 3000 °C
- **Operation Range:** -20 °C to 50 °C
- **Storage Range:** -40 °C to 70 °C
- **Humidity:** 10% to 90% non-condensing
- **Accuracy:** \pm 2 °C or 2% of reading
- **Pixel Operability:** > 99 %
- **Shock/Vibration:** 25 G/2 G
- **Dimensions (without lens):** 152 mm x 101 mm x 76 mm (L x W x H \pm .5 mm)
- **Weight (without lens):** < 512 g
- **Interface:** USB 2.0/HDMI output/RJ-45 Ethernet
- **Video:** HDMI
- **Image Modes:** IR image
- **Image Polarity:** iron, rainbow, sepia, white hot, black hot, blue_red, hot_cold
- **Emissivity Correction:** 0.1 to 1.0
- **IP Rating:** IP 65
- Built in shutter
- **Language:** multinational
- **Drop Test:** 2m
- **Spot Meter:** center spot
- **Hot/Cold Detection:** automatic
- **ICI IR Flash Software Requirements:**
 - Processor:** i5 or above
 - RAM:** 4 GB or above
 - OS:** Windows 8/8.1/10
 - Hard Drive:** 256 GB or above

Applications

- Image molten & solid metals, including steel
- Molten glass & ceramics
- Welding
- Solar imaging
- Laser imaging
- Light bulb filaments
- Scientific research
- High temperature applications

Options & Accessories

- Optional: 1/4"-20 tripod
- 8 mm Fixed focus lens (68.8° x 55° FOV, 1.875 IFOV)
- 12 mm Fixed focus lens (45.8° x 36.7° FOV, 1.25 IFOV)
- 50 mm Fixed focus lens (11° x 8.8° FOV, 0.3 IFOV)
- 75 mm Fixed focus lens (7.3° x 5.9° FOV, .02 IFOV)



FMX HT-640 P-Series

ICI cameras all fall under US Federal Law and Export Control.