

ICI | HT-640 (High Temperature)



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We are IR™

ICI | HT-640 (High Temperature)

The ICI HT-640 is a 640x512 high temperature infrared camera capable of imaging all metals including molten and solid steel. Monitor welds, light bulb filaments, and molten glass. Our ICI HT-640 is also useful for imaging the sun, scientific research, laser imaging, ceramics, or any application where precision high temperature measurements up to 2000 °C are required.



Features

- Provides Measurement Corrections for Emissivity, Ambient Temperature, Distance, and Relative Humidity.
- Adaptable Units, Language, and Date & Time
- Connects to USB devices such as a USB Keyboard and more.
- 8 Color palettes

Specifications

- **Pixel Resolution:** 640x512
- **FOV:** 22° x 17.6°
- **Spatial Resolution (IFOV):** 0.6 mrad
- **Spectral Band:** 0.35 μm to 1 μm
- **Thermal Sensitivity (NETD):**
< 0.01 °C at 30 °C (10 mK)
- **Frame Rate:** 30 Hz
- **Temperature Range:** 600 °C to 2000 °C
- **Operation Range:** -20 °C to 50 °C
- **Storage Range:** -40 °C to 70 °C
- **Focus:** Fixed
- **Focal Length:** 25 mm
- **Encapsulation:** IP65
- **Emissivity:** Variable from 0.01 to 1.0
- **Spot Meter:** Center Spot
- **Hot / Cold Detection:** Automatic hot or cold spot meter markers
- **Interface:** USB 2.0 / HDMI Output / RJ45 Network
Optional (Coming Soon): Ethernet
- **Display:** HDMI
- **Video Output:** HDMI
- **Accuracy:** ± 2 °C or 2 % of Reading
- **Pixel Operability:** > 99 %
- 25 G Shock / 2 G Vibration
- **Drop Test:** 2 m
- **Dimensions (without lens):**
76 x 101 x 152mm (H x W x D ± .5 mm)
- **Weight:** < 500 g
- **Humidity:** non-condensing b/t 10 % to 90 %
- **Image Modes:** IR image
- **Language:** Multinational
- **Color Palettes:** Iron, Rainbow, Sepia, Grey,
Grey Inverted, Blue_Red, Hot_Cold, Humidity

Applications

- Image Molten & Solid Metals, including Steel
- Welding
- Scientific Research
- Imaging of the Sun
- Light Bulb Filaments
- Molten Glass
- Laser Imaging
- Ceramics
- High Temperature Applications

Lens Options & Accessories

- 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)

