

ICI | 500 Portable IR Calibration Blackbody



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We are IR™

ICI | 500 Portable IR Calibration Blackbody

The ICI 500 portable IR calibrator features a large temperature controlled blackbody target with a diameter of 2.25" (57 mm) and a 0.95 emissivity. The isothermal target temperature can be set from 50 °C to 500 °C in increments of 0.1 °C. For even higher precision, a contact calibration well is located directly behind the blackbody surface. Using an optional digital Resistance Temperature Detector sensor and calibrated secondary probe, accuracies of ± 0.1 °C can be achieved. The ICI 500 portable IR calibrator includes a calibration certificate traceable via international agreement to all major national standards bodies, including the NIST.



Features

- Easily certify IR pyrometers to 500 °C / 932 °F
- Large Blackbody Target
- Optional Resistance Temperature Detector (RTD) reference well for precision calibrations
- Calibrate new thermal instruments
- Re-calibrate old devices to ensure accuracy

Specifications

- **Temp Range:** 50 °C to 500 °C
- **Accuracy:**
 - ± 0.5 °C @ 100 °C / ± 0.9 °F @ 212 °F
 - ± 2.8 °C @ 500 °C / ± 5.0 °F @ 932 °F
- **Stability:**
 - ± 0.1 °C @ 100 °C / ± 0.2 °F @ 212 °F
 - ± 3.0 °C @ 500 °C / ± 5.4 °F @ 932 °F
- **Target Size:** 2.25" (57 mm)
- **Resolution:** .01 °C / 0.1 °F
- **Emissivity:** 0.95
- **Power:** 230 V AC (± 10 %), 1.5 A; or 110 V AC, 3 A
- **Dimensions:** 180 mm x 114 mm x 233 mm (HxWxD +/- .5 mm)
- **Weight:** 2682 g

Calibration for:

- Infrared Instruments
- Point Radiometers
- Infrared Thermometers
- Non-Contact Digital Thermometers
- Temperature Guns
- Laser Thermometers
- Infrared Cameras
- Thermal Cameras
- Non-Contact Radiometric Devices

Options & Accessories

- AC Power Cable
- Resistance Thermometer Detector (Optional)

