



ICI's Temperature Reference Source I has been developed for high-precision infrared body temperature measurements. Our device features a 100 mm x 80 mm (3.94" x 3.15") isothermal target specially designed to measure between 5 °C to 50 °C (41 °F to 122 °F). It is highly accurate making it a perfect temperature reference for calibrating non-contact thermometers and cameras, as well as devices for associated applications. Our instruments include a calibration certificate that is traceable via international agreement to all major national standard bodies, including the NIST.

Features

- Large target area
- Exceptional accuracy
- Wide calibration range for a plethora of applications
- Calibration for new thermal instruments
- Re-calibration for old devices

Calibration for:

- Infrared instruments
- Point radiometers
- Infrared thermometers
- Non-contact digital thermometers
- Temperature guns
- Laser thermometers
- Infrared cameras
- Thermal cameras
- Non-contact radiometric devices

Specifications

- **Temperature Range:** 5 °C to 50 °C (41 °F to 122 °F)
- **Operation Temperature:** 0 °C to 40 °C (32 °F to 104 °F)
- **Storage Range:** -40 °C to 70 °C (-40 °F to 158 °F)
- **Accuracy:** ± 0.2 °C @ 35 °C (0.36 °F @ 212 °F)
- **Stability:** ± 0.1 °C ~ 0.3 °C/hour (± 0.18 °F to ± 0.54 °F/hour)
- **Stability Time:** ≤ 5 minutes
- **Target Size:**
100 mm x 80 mm ± 0.5 mm (3.94" x 3.15" ± 0.02")
- **Resolution:** 0.1 °C (0.18 °F)
- **Emissivity:** 0.97 ± 0.02
- **Power:** 110V AC (± 10 %), 260 W, 50 Hz
- **Dimensions:**
195 mm x 150 mm x 110 mm (L x W x H ± 0.5 mm)
7.67" x 5.90" x 4.33" (L x W x H ± 0.02")
- **Weight:** 2048 g (4.5 lbs)
- **Humidity:** 80%, relative

Accessories

- AC power cable
- Calibration certificate



Temperature Reference Source I

THIS DEVICE IS INTENDED FOR ADJUNCTIVE USE WITH OTHER CLINICAL DIAGNOSTIC PROCEDURES TO MEASURE HUMAN BODY TEMPERATURE VIA NON-CONTACT SKIN MEASUREMENTS VISUALIZED FROM THE HUMAN FACE. NOT MEANT FOR STANDALONE CLINICAL DIAGNOSTIC PROCEDURES OR TO TREAT OR DIAGNOSE PATIENTS.