



Key Features

- Measure Minimum Resolvable Temperature Difference (MRTD) of IR imagers
- Ideal for Two-point Calibration of Infrared Cameras and Detectors
- Thermo-Electric Drive Provides Both Hot and Cold Set-Point
- Achieves Set-point Temperature in < 1 Min.
- Faster and Easier Lab Calibration
- OEM Models Can Be Incorporated Into Instrument Housing for Built-in Calibration

Differential Blackbody DBT-1000

Specifications

Stability: 0.004°C rms ($\pm 0.01^\circ\text{C}$ p-p)

Emissivity: >0.95

Max/Min Temperature: 65°C / 5°C

Slew rate: +0.10°C/s, -0.08°C/s

Set point resolution: 0.01 °C

Differential Accuracy: 0.01 °C

Dimensions:

Blackbody: 4" x 4" x 6"

Controller : 7" x 4.5" x 10.5"

Face dimensions: 2.1" x 2.1"

Weight:

Blackbody: 3.5 lbs.

Controller : 4.3 lbs.

Environment: 60 °C to -20 °C

Power In: 120 VAC, 40 W

High Slew Rate Rapid Settling Time

Thermo-electrically driven blackbody provides precise infrared emission over the MWIR and LWIR spectral bands.

Tri-bar target with differential temperature control for Minimum Resolvable Temperature Difference measurements.

Removable bar target permits flat-plate blackbody use; ideal for two point calibration of imagers and single detectors.

Digital Interface via RS-232 for PC set-point control.

Collimating optics and multiple frequency bar targets available for scene projection.

Rapid blackbody systems and customized components available

INFRARED BLACKBODY SOURCES TO MEET YOUR CALIBRATION NEEDS

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