



PORTABLE  
BLACKBODY  
CALIBRATION  
VERIFICATION UNIT  
FOR HUMAN SKIN  
TEMPERATURE



- . Designed specifically as a benchmark for measuring human skin temperature
- . Accuracy of  $+ 0.5^{\circ}\text{C}$  @  $37.0^{\circ}\text{C}$  ( $98.6^{\circ}\text{F}$ )
- . Includes NIST certificate of compliance at  $37^{\circ}\text{C}$  ( $98.6^{\circ}\text{F}$ ) with virtually no errors or lag
- . Emissivity of 0.98 for calibrating instruments used for measuring human skin temperature Unique design with extremely high emissivity, precision, stability and uniformity
- . Large emission area:  $2.83 \times 2.83$  in ( $72 \times 72$  mm)
- . Integrated handle for easy transport
- . Tripod Seat for temporary or permanent installation on site
- . 85 to 250VAC can be used anywhere in the world
- . Includes 6ft power cord with proper power connection

## Description

### Aperçu

As a high precision reference device to check the reading of your portable infrared thermometers and thermal cameras.

As a reference to provide higher precision measurements for thermal imaging temperature scanning systems.

The integrated handle makes this lightweight unit easy to transport and install on any horizontal surface. It is equipped with a 1/4 "x 20 UNC thread tripod for standard camera at the bottom of the unit, which allows it to be attached to a tripod for on-site temperature monitoring with infrared and Portable or fixed / mounted thermal imagers The HSB50 can be used anywhere in the world with 85 to 250VAC.

## Spécifications

Model HSB50 SPECIFICATIONS	
Temperature Range :	Ambient + 5°C (122°F)
Controller:	User Adjustable
Display Resolution:	0.1°F or 0.1°C
Aperture (Target Size):	2.83 x 2.83 in (72 x 72 mm) Square Plate
Emissivity	0.98 + 0.002 - emissivity of human skin
Spectrum :	8 to 14 microns
Calibration Method :	Pyrometric Calibration - with a highly accurate non-contact transfer-standart during production
Accuracy:	+0.05°C @ 37.0°C (98.6°F)
Uniformity:	+ 0.15°C , within a central area diameter of 51 mm(2")
Stability :	+0.1°C
Warm-up Time @23°C :	10 minutes (after stabillizing at ambient before start-up)
Power :	30 Watts
Power connector:	IEC320 with appropriate power connector for country
Voltage:	85 to 250VAC
Dimensions H x W x D:	5x5x7 in (127 x 127 x 177.8 mm)
Weight :	9.25 lbs. (4.2kg)
Portability :	Built-in Handle, lightweight and easy to carry
Mouting:	Bench top or Tripod Mount (1/4"x20UNC Thread)
Optical PC Interface:	RS485
Optional Accessories :	Tripod
Included :	NIST Certificate of Conformance at three points : 96.8°F (36.0°C), 98.6°F ( 37.0°C) and 100.4°F (38.0°C) 12453-03 All Purpose Microfiber Cleaning Cloth in zip-close pouch, 8"x8"

## Modèles et accessoires

HSB50- BLACKBODY CALIBRATION VERIFICATION UNIT FOR HUMAN SKIN TEMPERATURE	
step 1-select: model	
Code	description
HSB50	Blackbody calibration verification unit, aperture: 2.83 x 2.83 in (72x72mm), includes NIST Certificate of conformance
Step 2 - Select : Temperature Scale	
Code	temperature scale
C	Ambient +5° to 50°C
F	Ambient + 5 to 122°F

Step 3 - Select: power connector ( include dash)	
Code	Power Connector
-US	North American Power cord, IEC320 to NEMA 5-15P, 6 ft
-BR	Brazil Power Cord, IEC320 to 3P, 6 ft
-CN	China, AU & NZ Power Cord, IEC320 to AS3112, 6 ft
-EU	EU Power Cord , IEC320 to BS1363, 6 ft
-UK	UK Power Cord, IEC320 to BS1363, 6ft
-XX	Other,Specify with Country Code and Connection Description

Step 4 - Select: Option			
Code		Option	
P		RS485 PC Interface	
X		Other	
Series	Temperature Scale	Power Connector	Options
HSB50			
Insert Codes in boxes above to build par number			

