

# BL671 PORTABLE BLACKBODY CALIBRATION SOURCE



The BL671 is a small size blackbody calibration source utilizing a digital indicating temperature ambient 30°C to 50°C (86F to 122F). A 70x70 mm size ridged plate is heated or cooled with an internal solid state thermoelectric heat pump. It has a built-in digital temperature controller to provide accurate, stable temperature as well as to provide readout.

## FEATURE

- 0.05° C high stability
- Emissivity  $0.97 \pm 0.02$
- Calibrate from 30° C to 50° C
- Target size is 70mm x 70mm
- Built-in temperature correction function
- Portable and light weight
- Easy operate

## APPLICATION

- Ambient temperature compensation for thermal image camera
- Test infrared thermometer

## SPECIFICATION

Temperature range	30° C to 50° C (86F to 122F)
Aperture size	70 mm * 70mm
Emissivity	$0.97 \pm 0.02$
Display accuracy	$\pm 0.05^{\circ} \text{C}$ , (uncertainty is $0.2^{\circ} \text{C}$ , $k=2$ )
Display resolution	0.01° C
Control stability	$\pm 0.05^{\circ} \text{C}$ after 10 minutes
Blackbody uniformity	0.05° C
Heat cavity shape	Plate
Warm up time	10 minutes from ambient to 50°C
Control method	Digital PID controller with readout
Temperature sensor	Precision platinum RTD
Power supply	110-220V AC 50Hz, 60WA
Interface	RS485
Dimension	250mm(D) x 140mm(W) x 180mm(H)
Net weight	Approx. 2 kg

## SCOPE OF DELIVERY

- BL671 Portable blackbody calibration source
- Power adapter as standard 110-240V AC
- User manual
- Protective carrying case
- Factory test report

## OPTIONAL ACCESSORIES

- Accredited calibration certificate (P/N: 9000-671)
- Tripod with carrying bag (P/N: 67X-TP)

## ORDERING MODEL NUMBER

- Model BL671