BL678 Portable Infrared Calibration Source/ Black Body

The BL678 is a portable blackbody calibration source utilizing a digital indicating temperature ambient 300℃ to 1200℃ (572F to 2192F). A precision thermocouple N temperature sensor is embedded in the blackbody emitter, providing high accuracy and repeatability. The temperature controller uses the industry standard PID algorithms to control the emitter temperature to within 0.1℃ of the set points.

The black body emitter mechanism uses a resistive heating device that provides a long life, short stabilization times, and stable temperature control.

FEATURE

- Temperature range 300℃ to 1200
- Emissivity is better than 0.995
- Temperature uniformity is up to 0.15℃
- 50 mm aperture diameter is compliance with most of D:S
- Build-in temperature correction function

TYPICAL APPLICATION

- Infrared temperature sensors
- Infrared thermal imaging systems
- Spectrographic analyzers
- Radio meters
- Flux meter

SPECIFICATION

Temperature range	300℃ to 1200℃ (572F to 2192F).
Aperture Diameter	50 mm (1.97 inch)
Heated Emitter Shape	Closed end tube
Emissivity	better than 0.995
Accuracy	better than ± 0.1℃
Display Resolution	0.1℃
Control stability (10min)	0.1℃ or 0.1%t (whichever is great)
Uniformity	0.15℃ or 0.15%t (whichever is great)
Control method	PID
Temperature Sensor	Thermocouple
Power Supply	220V AC / 2000WA
Interface	RS232
Warm up time	1.5 hour (ambient to 1200℃)
Stable time	1.5 hour(<500℃); 1 hour (>500℃)
Calibration Method	Pyrometric
Dimension w/o holder	350mm x 220mm x 260mm
Net Weight	Appr. 25 kg

SCOPE OF DELIVERY

- Infrared calibration source /Black body
- Power cord with adapter
- User manual
- Factory calibration report

OPTIONAL ACCESSORIES

- Handheld Carrying case (P/N: 1570)
- Accredited calibration certificate (P/N: 9000-677)
- RS485 into RS232 adapter (P/N: 1621)
- 110V AC convert (P/N: 1620)

ORDERING MODEL NUMBER

- BL678-R1200B

Balun Technology Co., Ltd
www.baluntech.com
Email: info@baluntech.com
Tel: 010- 6240 6768
Address: 1322, F/3, Bldg 1, 33 Zique Rd, Haidian, Beijing100095, China