

BL676 Portable Infrared Calibration Source/ Black Body



The BL676 is a portable blackbody calibration source utilizing a digital indicating temperature ambient 50 to 500°C (122F to 932F). A precision platinum RTD 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°C 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 50 to 500°C
- Emissivity is better than 0.995
- 50 mm aperture diameter end close tube
- 0.15°C high blackbody surface uniformity
- Built-in temperature correction function
- Light weight, easy to carry
- Robust construction

TYPICAL APPLICATION

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

SPECIFICATION

Temperature range	50 to 500°C (122 to 932F)
Aperture diameter	50 mm
Heated emitter shape	End closed tube
Emissivity	better than 0.995
Display resolution	0.1°C
Control stability (10min)	0.1°C or 0.1%t (whichever is great)
Temperature uniformity	0.15°C or 0.15%t (whichever is great)
Distance from tube to target surface	130 mm
Control method	Digital PID controller with readout
Temperature sensor	Precision Platinum RTD
Power supply	220V AC, 500 VA
Interface	RS485
Heat up time	< 1 hour ambient to 500°C
Calibration method	Pyrometric standard calibration
Dimension w/o holder	260mm x 200mm x 260mm
Net weight	Appr. 5 kg

SCOPE OF DELIVERY

- BL676 Portable infrared calibration source
- Power cord
- User manual
- Factory calibration report

OPTIONAL ACCESSORIES

- Handheld carrying case
- Accredited calibration certificate (P/N: 9000-676)
- RS485 into RS232 adapter (P/N: 1621)
- 110V AC convert (P/N: 1620)

ORDERING MODEL NUMBER

- Model BL676-R500B