



Model Number	SBB-1 Low-Range	SBB-2 Mid-Range	SBB-3 High-Range	SBB-6 Mid-Range
Temperature Range	-30 °C to 110 °C	Ambient to 350 °C	Ambient to 650 °C	Ambient to 500 °C
Black Body Area	5.08cm (2")			15.24cm (6")
Control Sensor	RTD Sensor	Thermocouple Sensor		
Optional External Reference Sensor	RTD Sensor** Part# BB-350 / 0.125" Diam.	Thermocouple Sensor** Part# BB-650 / 0.125" Diam.		
Dimensions	Height: 41.28cm (16.25") Width: 33.99cm (13.38")			
Weight	5.44kg (12lbs.)			6.80kg (15lbs.)
Stability	± 0.05 °C			
Emissivity	0.98 ± 0.02			
Accuracy	± 0.5 °C			
Uniformity	± 0.5 °C			
Resolution	0.1 °C			
Heat Up	14 °C / minute*			
Cool Down	2.2 °C / minute*			
Interface	RS-232 Interface and iTools			
Power	120VAC, 10amp, 50/60Hz *Available in 240VAC			

\* ± 2 °C Depending on Environment. \*\* The SBB may be drilled to accommodate a 0.125" External Reference Sensor (sold separately). If hole for External Reference Sensor is desired, specify at time of ordering by adding "-DRL" to end of part number, following power designation (for example: SBB-1-1-DRL). External Reference Sensor Sold Separately / Part#: BB-650. It is recommended to purchase a calibrated pyrometer (Part#: PDK) and extender lead (part#: ET-M-MJ-36K) to accompany the reference sensor for initial calibration.

### Features

- Ideal for All IR Guns - Regardless of Their Class!
- Ultra High Stability
- Fast Heat Up & Cool Down Times
- Simple to Use
- Rugged & Lightweight
- Available in 120VAC or 240VAC - EDL Will Accommodate the Cord Configuration to Match the Home Country Power Requirement
- Includes Removable Control Sensor for Easy Recalibration
- Adjustable Bail Handle
- Optional Aperture Available
- NIST Traceable Calibration Certificate Included
- Available as a Reference Version and May Be Drilled to Accommodate 0.125" External Reference Sensor (sold separately)
- 12-Month Warranty

EDL's Single Black Body (SBB) IR Calibrators were designed for easy and reliable testing of virtually any in line or handheld infrared pyrometer/gun. The Single Black Body (SBB) is used for applications requiring only one temperature range. Lightweight and compact, the SBB is ideal for use in the lab or in the field. Units are available to cover the most tested temperatures: SBB-1 (low-range) accommodates temperatures from -30 °C up to 110 °C, SBB-2 (mid-range) accommodates temperatures from ambient up to 350 °C, and SBB-3 (high-range) accommodates temperatures from ambient up to 650 °C.

EDL's IR calibrators provide extremely uniform Black Body targets, with a high emissivity of 0.986ε. The SBB-1, SBB-2, and SBB-3 feature a large 2" diameter target area. The SBB-6 is equipped with a large 6" target and covers the temperature range of ambient up to 500 °C. All SBB calibrators are equipped with an advanced temperature controller that delivers high accuracy and reliability, and iTools (a program that allows the user full control over the available features). Data is easily collected and downloaded to your computer through the RS-232 interface, and the computer may be used to control set points for automatic testing. These calibrators are equipped with a control reference probe which is inserted into the Black Body; this sensor is easily removed for independent calibration. Any of the SBB models may be drilled to accommodate a 0.125" External Reference Sensor (sold separately). It is recommended to purchase a calibrated pyrometer (Part#: PDK) and extender lead (part#: ET-M-MJ-36K) to accompany the reference sensor for initial calibration. A NIST traceable calibration report is included in your initial purchase. All EDL calibrators are made in the USA and tested for stability and uniformity before shipping.

