



Model Number	DBB-350 Low-Range	DBB-650 High-Range
Temperature Range	Low-Range: -30 °C to 110 °C High-Range: Ambient to 350 °C	Low-Range: -30 °C to 110 °C High-Range: Ambient to 650 °C
Black Body Area	5.08cm (2")	
Internal Sensor Input	Includes RTD (Low-Side) & Thermocouple (Hot-Side) Control Sensors {External Reference Sensors Sold Separately}	
Dimensions	Height: 41.28cm (16.25") Width: 33.99cm (13.38")	
Weight	9.07kg (20lbs.)	
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 DBB may be drilled to accommodate 0.125" holes for External Reference Sensors (sold separately) on both the hot and cold-sides. If the holes for External Reference Sensors are desired, specify at time of ordering by adding "-DRL" to end of part number, following power designation (for example: DBB-350-1-DRL). External Reference Sensors Sold Separately. Low-Side (RTD) External Reference Sensor: Part# BB-350 / High-Side (Thermocouple) External Reference Sensor: Part# BB-650. It is recommended to purchase calibrated pyrometers (Part#: PDK) and extender leads (part#: ET-M-MJ-36K) to accompany the reference sensors 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

The compact Dual Black Body (DBB) Infrared Calibrator is easy to use, and makes calibration of infrared pyrometers with multiple temperature ranges faster than ever before by combining a hot and cold side in one unit. The calibrators are simple to set and control. Merely input the desired Black Body temperature on the convenient front panel control buttons, let the unit reach the set temperature, wait a few moments to ensure stability, aim, and shoot. The radiated energy from the Black Body is measured by your IR thermometer. Compare the IR thermometer reading to the display on the controller and record the difference.

With the large 2" diameter target areas and high accuracy controller, the Dual Black Body (DBB) offers accuracies of ± 0.5 °C over the respective temperature range. The isothermal target is machined and coated to give a high emissivity of 0.986, and the target temperature is controlled in set-point increments of 0.1 °C. Equipped with a Fast-Cool feature, you can quickly adjust temperatures allowing for easy and safe transportation from lab to production floor.

The low-side is equipped with an RTD control sensor, the high-side is outfitted with a thermocouple. The reference probes are inserted into the Black Body and are easily removed for independent calibration. Both Dual Black Body models may be drilled to accommodate independent 0.125" External Reference Sensors (sold separately). It is recommended to purchase calibrated pyrometers (Part#: PDK) and extender leads (part#: ET-M-MJ-36K) to accompany the reference sensors for initial calibration. A NIST traceable calibration report is included with your purchase. An optional universal Black Body aperture is available for size and source measurements of all IR pyrometers. The adjustable aperture helps find true spot sizes during calibration, part# BB-APP. All EDL calibrators are made in the USA and tested for stability and uniformity before shipping.

