

BX-500 Portable IR Calibrators

BX-500 Portable IR Calibrators are used for calibrating long distance Infrared Thermometer, which are designed as handhold and small calibrations.

Whether you're using in-line or handheld infrared pyrometers, you need a high performance calibration standard to verify accuracy. Portable IR Calibrator provides a stable black body target for calibrating non-contact IR thermometers up to 500°C.

The portable IR calibrator features a large temperature controlled blackbody target with a diameter of 2.25" (57mm), which offers a wide field of view area for optical variations in IR thermometers. With an emissivity of 0.95, the isothermal target can be controlled in set-point increments of 0.1° from 50°C to 500°C.

For even higher precision, a contact calibration well is located directly behind the blackbody surface. Using an optional digital RTD thermometer and calibrated secondary probe, accuracies of $\pm 0.1^{\circ}\text{C}$ can be achieved.

Features:

Easily certify IR pyrometers to 500°C/932°F

Large 2.25" (57mm) blackbody target

RTD (Resistance Thermometer detector) reference well for high precision

Specifications:

	BX-500
Temperature Range	50°C to 500°C / 122°F to 932°F
Accuracy	±0.5°C @ 100°C / ±1.0°F @212 °F ±1.8°C @ 500°C / ±3.6°F @932 °F
Stability	±0.1°C @ 100°C / ±0.2°F @212 °F ±0.3°C @ 500°C / ±0.6°F @932°F
Target size	2.25"(57mm)
Target Emissivity	0.95
Resolution	0.1°C/°F
Heating Time	40 minutes to max
Cooling Time	45 minutes to max to 100°C
Power	230VAV(±10%), 1.5A; or 110V AC, 3A
Size(H*W*D)	180mm*114mm*233mm
Weight	2682g

Accessories:

Carton box, AC power cable