

# PORTABLE INFRARED CALIBRATOR

## Model - BX-500



BX-500 Portable IR Calibrators are used for calibrating Infrared Thermometers. 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°C 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 check IR pyrometers upto 500°C / 932°F.
- \* Large 2.25" (57mm) blackbody target.
- \* RTD (Resistance Temperature detector) reference well for high precision

### Preliminary Data

### ACCESSORIES :

AC power cable.

## ELECTRICAL SPECIFICATIONS : BX-500

Temperature Range	50°C ~ 500°C / 122°F ~ 932°F
Accuracy	$\pm 0.5^\circ\text{C}$ @ 100°C / $\pm 1.0^\circ\text{F}$ @ 212°F
	$\pm 1.8^\circ\text{C}$ @ 500°C / $\pm 306^\circ\text{F}$ @ 932°F
Stability	$\pm 0.1^\circ\text{C}$ @ 100°C / $\pm 0.2^\circ\text{F}$ @ 212°F
	$\pm 0.3^\circ\text{C}$ @ 500°C / $\pm 0.6^\circ\text{F}$ @ 932°F
Target size	2.25" (57mm)
Target Emissivity	0.95
Resolution	0.1°C / °F
Heating Time	40 minutes to max temperature.
Cooling Time	45 minutes from max to 100°C
Power Supply	230V / AC ( $\pm 10\%$ ), 1.5A; or 110V AC, 3A
Dimension	180(H) x 114(W) x 233(D)mm
Weight	approx. 3 kg.

All Specifications are subject to change without prior notice

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