



## Portable IR Calibrators

BX-500 Portable IR Calibrators are used for calibrating long distance Infrared Thermometer, which are designed as handheld 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

### SPECIFICATIONS:

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

### FEATURES:

1. Easily certify IR pyrometers to 500°C / 932°C
2. Large 2.25" (57mm) blackbody target
3. RTD (Resistance Thermometer detector) reference well for high precision