

INFRARED BLACK BODY CALIBRATOR

For Human body and Surface mode calibration

MODEL : BCAL 40



INTRODUCTION

SANSEL Model BCAL 40, Black body Calibrator is used to measure the accuracy and performance of non-contact fever detection systems, like medical thermometer & image scanner. Now it is being used in relation to COVID-19 (corona virus). This Blackbody Source meets the demand for a simple cost effective solution but high accurate device for the calibration of thermal imager and IR thermometers that are used at temperature around that of the human body.

Unlike Heat only devices, This model uses a solid state Heat & cool Technology, so that this can be generate both Heat and Cool. This having benefits to maintain the block temperature in different ambient temperature.

BCAL 40 using True colour 3.5" Touch screen display, easy to read multi parameter at the same time like Block temperature, Set temperature, Control status, Output % level, range of the equipment, displays both °C & °F and two Touch screen soft keys are used for settings and one more advantage of help menu to guide the operating Instruction of the equipment. Hence no need of hard copy of Instruction manual.

FEATURES

- ✓ 3.5 inch True TFT display with Touch screen
- ✓ Range from 20 to 50°C / 68 to 122°F @ Body mode
- ✓ Range from 0 to 100°C / 32 to 212°F @ surface mode @Amb.25°C
- ✓ Extension tube gives better uniformity and avoid losses due to ambient temperature and air movement
- ✓ Indicates both °C & °F at a time
- ✓ Stable to $\pm 0.03^{\circ}\text{C}$
- ✓ Accurate better than $\pm 0.3^{\circ}\text{C}$
- ✓ Portable, Rugged & Onsite carryable

Technical Specifications

Model	BCAL 40
Display	3.5 inch True TFT LCD Display with Touch screen
Temperature Range	Body mode: 20 to 50°C / 68 to 122°F Surface mode: 0 to 100°C / 32 to 212°F
Resolution	0.01°C
Stability	$\pm 0.03^{\circ}\text{C}$
Uniformity	$\pm 0.3^{\circ}\text{C}$
Stabilization Time	10 minutes
Temperature readout	°C & °F at a time
Heating time	10 mins (Amb. To 50°C)
Power supply	90 to 260V AC/DC / 50/60Hz
Power Consumption	Less than 100 VA
Aperture area	25mm
Emissivity	0.950
Overall Dimension	210 x 210 x 140 (L x B x H)(Approx.)
Instrument Weight	3.7 kg

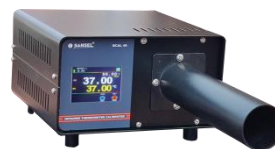
Note: Due to continuous product improvements, Published specifications may change with out notice

Standard Delivery

1. Basic Instrument
2. Spare fuses
3. Instruction manual
4. Mains card
5. Traceable calibration certificate
6. Small extension tube
7. Large extension tube
8. Carry bag



Carry bag



Removable large extension tube for thermal imager & scanner calibration

Optional

1. Carrying case

SANSEL INSTRUMENTS AND CONTROLS SANSEL CALIBRATION LABORATORIES

ISO/IEC 17025 Accredited Calibration Laboratory by NABL CC - 2879
(Thermal, Mechanical, Electro-Technical, Dimension Parameters)

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