

DIAS CS 110

Infrared Calibration Source/Black Body



The **infrared calibration sources CS 110** is well suited for calibration and examination of infrared radiation thermometers and infrared cameras in the temperature range from **-15 °C to 110 °C**.

A serial interface RS485 (optional USB adapter) enables the control of the black body with PC. Digital PID controller and precision platinum resistance thermometer Pt100 provide excellent accuracy and stability. Optional dry air or nitrogen flushing unit reduces condensation at low operating temperatures.

Technical data

Type	CS 110
Temperature range	-15 °C to 110 °C ¹
Aperture diameter	50 mm
Emissivity	0.98 ± 0.01
Uncertainty	± 0.5 K
Stability	0.2 K
Temperature resolution	0.1 K
Heat up time	8 min
Temperature sensor	Pt100 Class A
Controller	PID
Interface	RS485 (optional USB adapter)
Dimensions	300 mm × 205 mm × 350 mm
Weight	appr. 10 kg
Power supply	115/230 V AC

¹ Specification for ambient temperature 23 °C. Technical details are subject to change without notice. January 2009.