optris BR 500
TECHNICAL DATA

optris infrared measurements

Calibration source BR 500

Features:

- Radiator temperature up to 500 °C
- Excellent homogeneity, precision & long-term stability
- Compact and rugged design
- Perfect for calibrating and testing infrared sensors
- Scope of supply: Calibration source, power supply cable, calibration cetrificate, manual

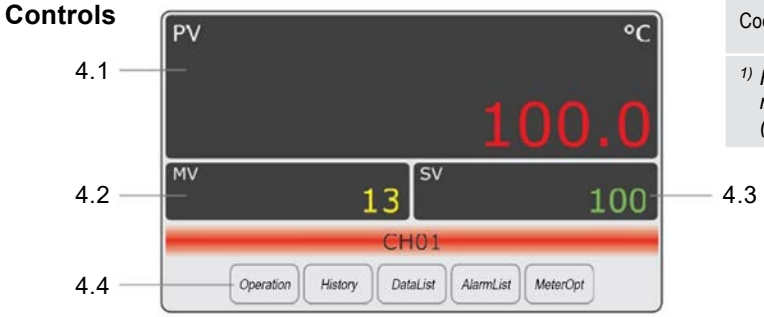
General Specifications	
Ambient temperature	5 °C ... 30 °C (during operation) (41 °F ... 86 °F)
Weight	9.8 kg (345.68 oz)
Dimensions (H x W x D)	380 mm x 240 mm x 230 mm (14.96 in x 9.45 in x 9.06 in)
Scope of supply	Calibration source, power supply cable, calibration cetrificate, manual

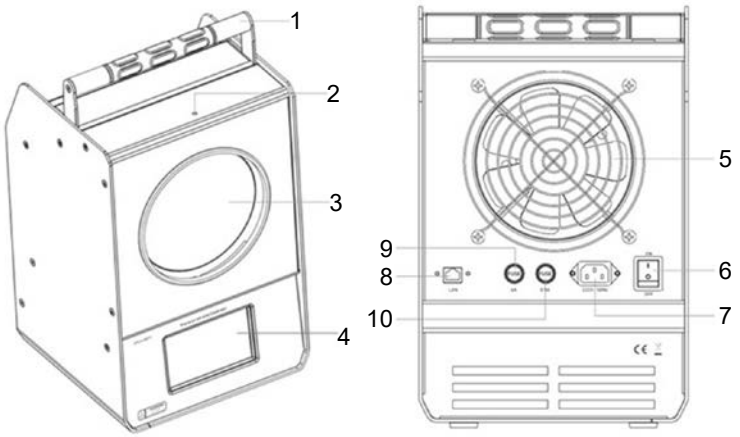
Electrical Specifications	
Temperature sensor	Pt100
Controller	PID
Power supply	230 V/ AC (±10 %) (optional: 110 V/ AC model)
Power consumption	Max. 1000 W

Measurement Specifications	
Temperature range (at T_{Amb} = 23 °C) (at T_{Amb} = 73.4 °F)	35 °C ... 500 °C (95 °F ... 932 °F)
Accuracy	±0.35 °C at 35 °C (± 0.63 °F at 95 °F) ±0.50 °C at 100 °C (± 0.90 °F at 212 °F) ±0.70 °C at 200 °C (± 1.26 °F at 392 °F) ±1.50 °C at 350 °C (± 2.70 °F at 662 °F) ±1.9 °C at 500 °C (± 3.42 °F at 932 °F)
Temperature resolution	0.1 °C at range 500 °C (0.18 °F at range 932 °F) 0.01 °C at range 300 °C (0.018 °F at range 572 °F)
Aperture	152 mm (5.98 in)
Emissivity	0.95
Warm-up time	20 minutes (35 to 450 °C) (95 to 842 °F) 10 minutes (450 to 500 °C) (842 to 932 °F)
Cool-down time	40 minutes (500 to 100 °C) (932 to 212 °F) 40 minutes (100 to 35 °C) (212 to 95 °F)

[1] For exact temperature determination of calibration source we recommend the use of a reference infrared thermometer (e.g. optris CTlaser DCI).

Controls





1. Handle
2. Temperature Detection Hole
3. Infrared Radiation Surface
4. Touch Screen
   - 4.1 PV Value
   - 4.2 MV Value
   - 4.3 SV Value
   - 4.4 Control Keys
5. Ventilating Fan
6. Power Switch
7. Power Input Socket
8. Ethernet Communication Port
9. 6A Fuse
10. 0.5A Fuse