

Ambient temperature referencing source



Key features:

- Reference radiator with high emissivity ideal for IR camera based fever screening applications
- Integrated 16-bit digital temperature sensor with 0.1 °C accuracy
- Mounting bracket adjustable for either ceiling or wall mounting
- Plug-and-play installation with 20 m cable and PI 450i suitable PIF-connector

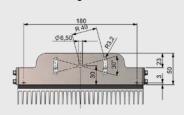
Technical Specifications	
Dedicated temperature range	18 °C 33 °C
Emissivity	0.95 +/-0.02 (for 8 - 14 µm)
Temperature probe (integrated)	Digital 16-bit temperature sensor
Accuracy of temperature probe	+/-0.1 °C (25 °C 50 °C) / drift: 0.0073 °C
Accuracy of PI 450i with BR 20AR (T _{Amb} 18 °C 33 °C)	+/-0.5 °C (T _{Obj} 30 °C 40 °C)
Interface	5-pin connector fitting to PIF-connector of PI 450i cameras
Dimensions	20 cm x 20 cm 8.2 cm
Weight (with mounting bracket/ without cable)	2.5 kg
Scope of supply	BR 20AR radiator mounting bracket mounting bracket operator's manual

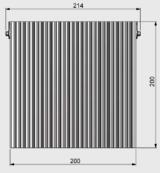
Dimensions (in mm)

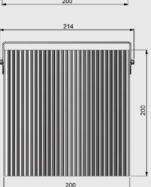
optris BR 20AR radiator with bracket for wall mount



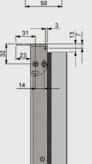
optris BR 20AR radiator with bracket for ceiling mount

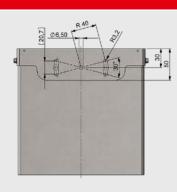














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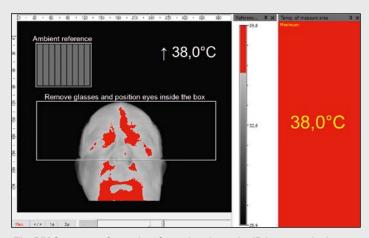
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optris BR 20AR

Reference temperature PIF IN Optris PI 450i O18 Optris PI 450i O18

PC with software PIX Connect

Absolute temperature measurement accuracy



The PIX Connect software is referencing the entire IR image to the known temperature of the Ambient reference which is placed inside the FOV.

To improve the specified camera accuracy of the PI 450i T010 camera a reference source with a high emissivity and a stable and known temperature must be positioned in the scene proximate to the subject to be scanned.

The BR 20AR Ambient referencing source is equipped with a temperature probe with +/- 0.1 °C accuracy.

By integrating this highly accurate reference signal to our PIX Connect software, we can reduce camera uncertainties resulting from device adjustment, ambient temperature drift and short term stability down to a system accuracy of +/- 0.5 °C.