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 • 20 m cable with PIF connector • 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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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.