

Ambient reference radiator TM-BR20AR-TIM

TM-BR20AR-TIM

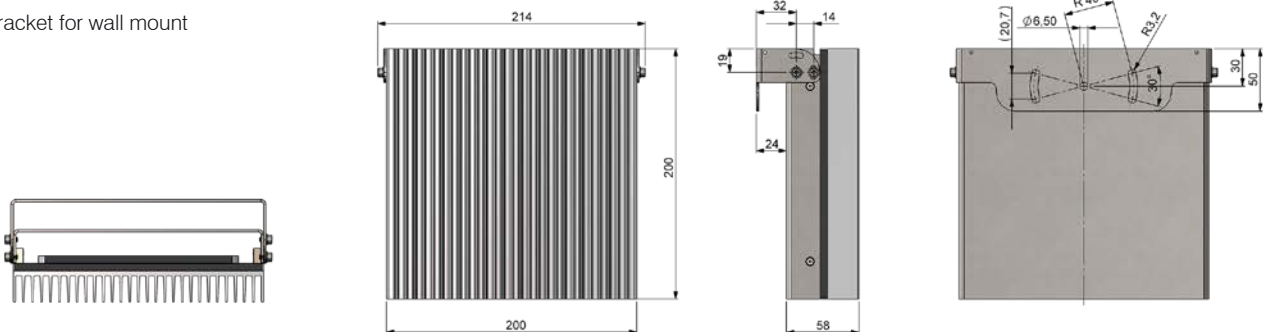
- Ambient reference radiator with high emissivity, ideal for thermal imaging camera based fever screening applications
- Integrated 16-bit digital temperature sensor with 0.1 °C accuracy
- Mounting bracket – adjustable for either ceiling or wall mounting
- Plug-and-play installation with 20 m cable and thermoIMAGER TIM QVGA-HD-T100 suitable PIF-connector



Model	TM-BR20AR-TIM
Temperature range	30 °C ... 40 °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 TIM QVGA-HD-T100 with TM-BR20AR-TIM (T _{Amb} 18 °C ... 33 °C)	± 0.5 °C (T _{Obj} 30 °C ... 40 °C)
Interface	5-pin connector fitting to PIF-connector of TIM QVGA-HD-T100 cameras
Dimensions	20 cm x 20 cm x 8.2 cm
Weight	2.5 kg (with mounting bracket / without cable)

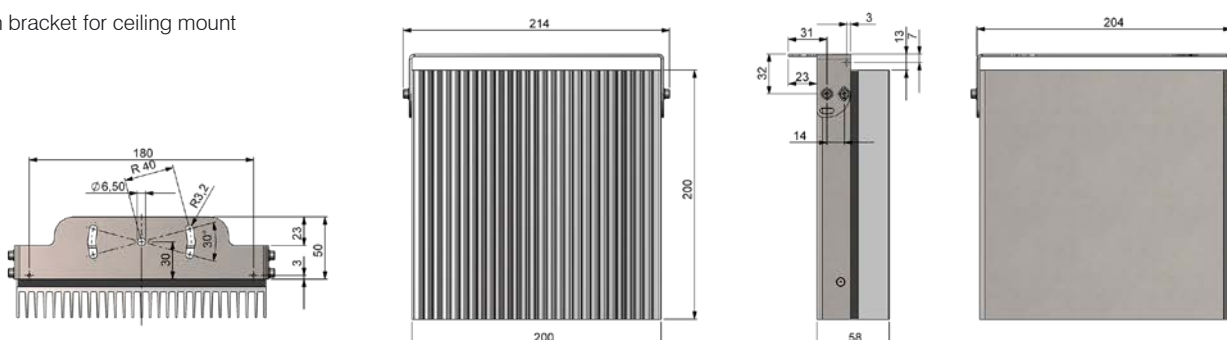
Ambient reference radiator TM-BR20AR-TIM

with bracket for wall mount

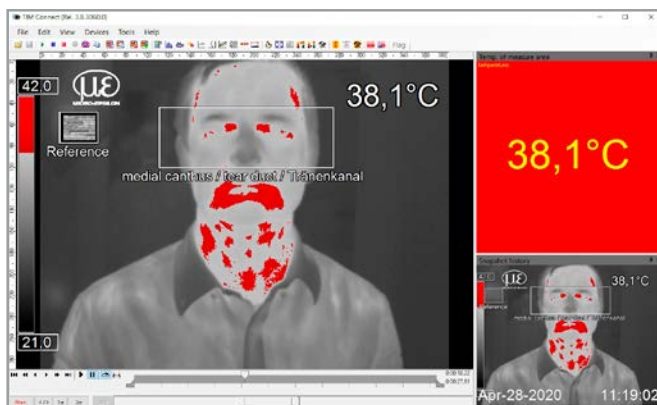
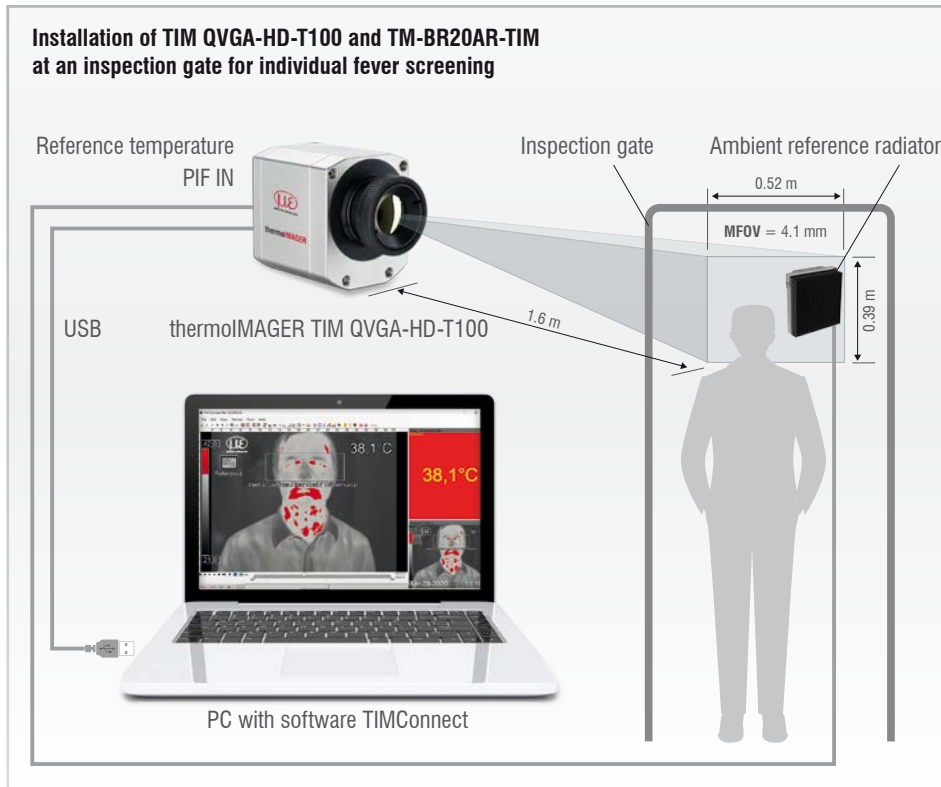


Ambient reference radiator TM-BR20AR-TIM

with bracket for ceiling mount



Ambient reference radiator TM-BR20AR-TIM



The TIMConnect software is referencing the entire IR image to the known temperature of the ambient reference which is placed inside the FOV.

Scope of supply

TM-BR20AR-TIM

- Ambient reference radiator TM-BR20AR-TIM
- Mounting bracket
- 20 m cable with PIF connector
- Instruction Manual

Absolute temperature measurement accuracy

To improve the specified camera accuracy of the TIM QVGA-HD-T100 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 TM-BR20AR-TIM ambient reference radiator is equipped with a temperature probe with ± 0.1 °C accuracy.

Integrating this highly accurate reference signal to the TIMConnect software, reduces camera uncertainties resulting from device adjustment, ambient temperature drift and short term stability down to a system accuracy of ± 0.5 °C.

Micro-Epsilon

info@micro-epsilon.com
www.micro-epsilon.com

info@micro-epsilon.co.uk
www.micro-epsilon.co.uk

me-usa@micro-epsilon.com
www.micro-epsilon.com

certified DIN EN ISO 9001 : 2008
modifications reserved / Y9761712-A012040SGO