

## Datenblatt

### Infrarotkamera Optris PI450i

OPTPI45ILT T010



<b>Bezeichnung</b>	OPTPI45ILT T010
<b>Modell</b>	Infrarotkamera Optris PI 450i
<b>Baureihe IR-Kameras</b>	Precision Line PI
<b>Optische Auflösung</b>	382 x 288 Pixel
<b>Temperaturmessbereich</b>	-20°C ... 100°C
<b>Spektralbereich</b>	8 - 14 µm
<b>Bildwiederholfrequenz</b>	80 Hz / 27 Hz
<b>Optiken (FOV)</b>	18° x 14° / f = 20 mm 29° x 22° / f = 12,7 mm 53° x 38° / f = 7,7 mm 80° x 54° / f = 5,7 mm
<b>Thermische Empfindlichkeit (NETD)</b>	40 mK mit 29° x 22° FOV, 53° x 38° FOV und 80° x 54° FOV / F = 0,9 60 mK mit 18° x 14° FOV / F = 1,1
<b>Systemgenauigkeit</b>	±2°C oder ±2% bei Umgebungstemperatur 23±5°C
<b>Standard Prozess Interface (PIF)</b>	1x 0-10 V Eingang 1x digitaler Eingang (max. 24 V) 1x 0-10 V Ausgang
<b>Industrielles Prozess Interface (PIF) optional</b>	2x 0-10 V Eingänge 1x digitaler Eingang (max. 24 V) 3x 0/4-20 mA Ausgänge 3x Relais (0-30 V / 400 mA) 1x Fail-Safe-Relais

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<b>Schnittstelle</b>	USB 2.0, optional USB zu GigE (PoE) Interface
<b>Spannungsversorgung</b>	via USB
<b>Schutzgrad</b>	IP67
<b>Umgebungstemperatur</b>	0°C ... 70°C
<b>Gewicht</b>	251 g
<b>Abmessungen</b>	46 x 56 x 68-77 mm
<b>Software</b>	optris PIX Connect inklusive
<b>Anwendung</b>	Fieberdetektion / Fiebererkennung
<b>Bedienungsanleitung</b>	<a href="#">Bedienungsanleitung Optris PI Serie</a>

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## Infrarotkamera Optris PI450i

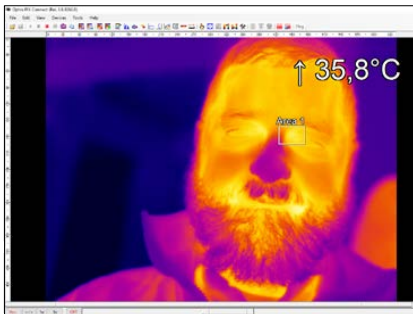
OPTPI45ILT T010



**IR camera for the detection of slightest temperature differences for fever screening applications**

**Features:**

- Smallest camera in its class (46 x 56 x 68 – 77 mm)
- Interchangeable lenses
- Superb thermal sensitivity of 40 mK
- Licence-free analysis software and calibration certificate included



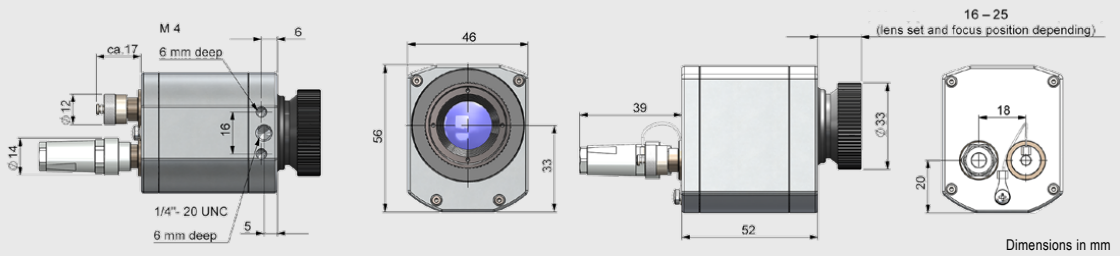
PI 450i T010 and PC with software PIX Connect

**Technical specifications**

Optical resolution	382 x 288 pixels
Detector	FPA, uncooled (17 µm x 17 µm)
Spectral range	8 – 14 µm
Temperature range	-20 °C ... 100 °C
Frame rate	80 Hz / switchable to 27 Hz
Optics (FOV)	18° x 14° / f = 20 mm or 29° x 22° / f = 12,7 mm or 53° x 38° / f = 7,7 mm or 80° x 54° / f = 5,7 mm
Thermal sensitivity (NETD)	40 mK with 29° x 22° FOV / F = 0.9 40 mK with 53° x 38° FOV / F = 0.9 40 mK with 80° x 54° FOV / F = 0.9 0.06 K with 18° x 14° FOV / F = 1.1
Accuracy	±2 °C
Accuracy with BR 20AR (T <sub>Amb</sub> 18 °C ... 33 °C)	±0,5 °C (T <sub>Obj</sub> 30 °C ... 40 °C)
PC interfaces	USB 2.0 / optional USB to GigE (PoE) interface
Standard process interface (PIF)	0 – 10 V input, digital input (max. 24 V), 0 – 10 V output
Industrial process interface (PIF) (optional)	2x 0 – 10 V input, digital input (max. 24 V), 3x 0/4 – 20 mA output, 3x relay (0 – 30 V / 400 mA), fail-safe relay
Cable length (USB)	1 m (standard), 5 m, 10 m, 20 m
Ambient temperature	0 ... 70 °C
Storage temperature	-40 ... 85 °C
Relative humidity	20 – 80 %, non condensing
Enclosure (size / protection)	46 x 56 x 68–77 mm (depending on lens + focus position) / IP 67 (NEMA 4)
Weight	237 - 251 g (depending on lens)
Shock <sup>1)</sup> / Vibration <sup>1)</sup>	IEC 60068-2-27 (25G and 50G) / IEC 60068-2-6 (sinus shaped), IEC 60068-2-64 (broadband noise)
Tripod mount	¼ – 20 UNC
Power supply	via USB
Scope of supply (standard)	<ul style="list-style-type: none"> <li>• USB camera, incl. lens</li> <li>• USB cable (1 m)</li> <li>• Table tripod</li> <li>• PIF cable, incl. terminal block (1 m)</li> <li>• Software package optris PIX Connect</li> <li>• Test certificate</li> <li>• Rugged outdoor transport case (IP67)</li> <li>• Certificate of calibration (reference temperature: 35 °C)</li> </ul>

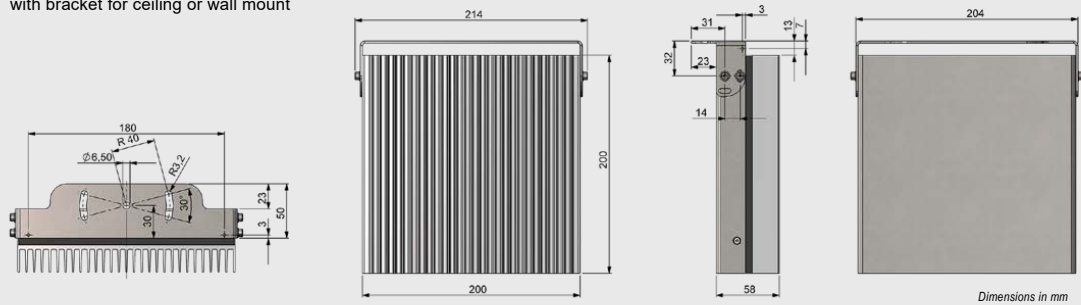
<sup>1)</sup> For further information see operator's manual

**Dimensions**

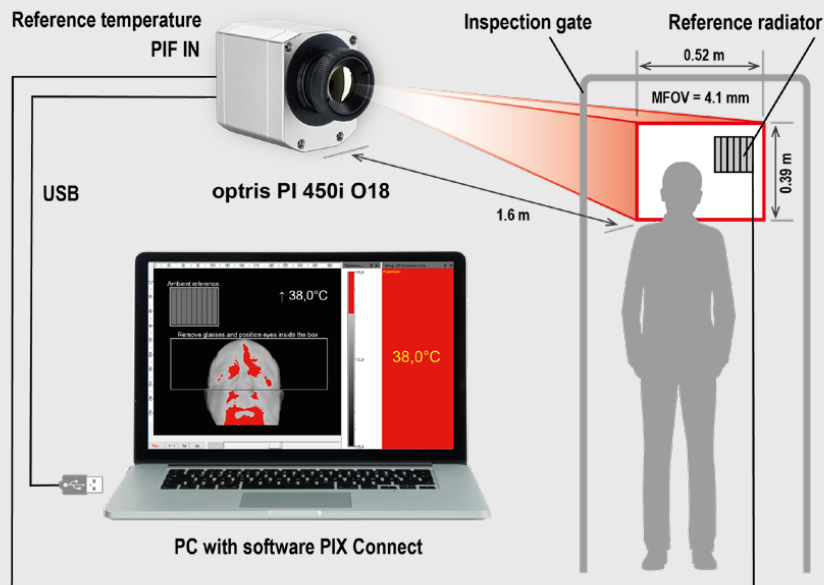


**Recommended accessory**

**optris BR 20AR - Ambient temperature referencing source**  
 with bracket for ceiling or wall mount



**Installation of PI 450i and BR 20AR at an inspection gate for individual fever screening**



Specifications are subject to change without further notice · PI 450i T010-DS-EN2020-04-A