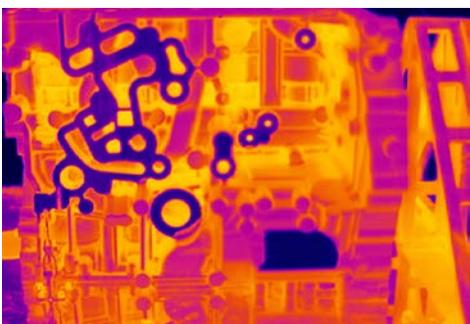
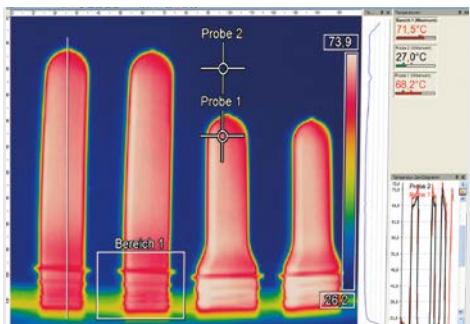
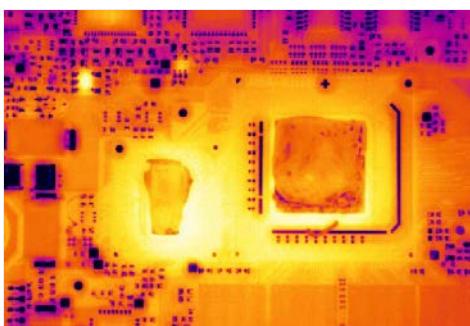


## Compact high resolution infrared camera



For further information as well als the product configurator, please visit  
[www.optris.global/  
thermal-imager-optris-pi450i](http://www.optris.global/thermal-imager-optris-pi450i)

### Features:

- Smallest camera in its class (45 x 45 x 60 – 75 mm)
- Interchangeable lenses and industrial accessories
- Switchable Framerate 80Hz
- License-free analysis software and full SDK included

### Technical specifications

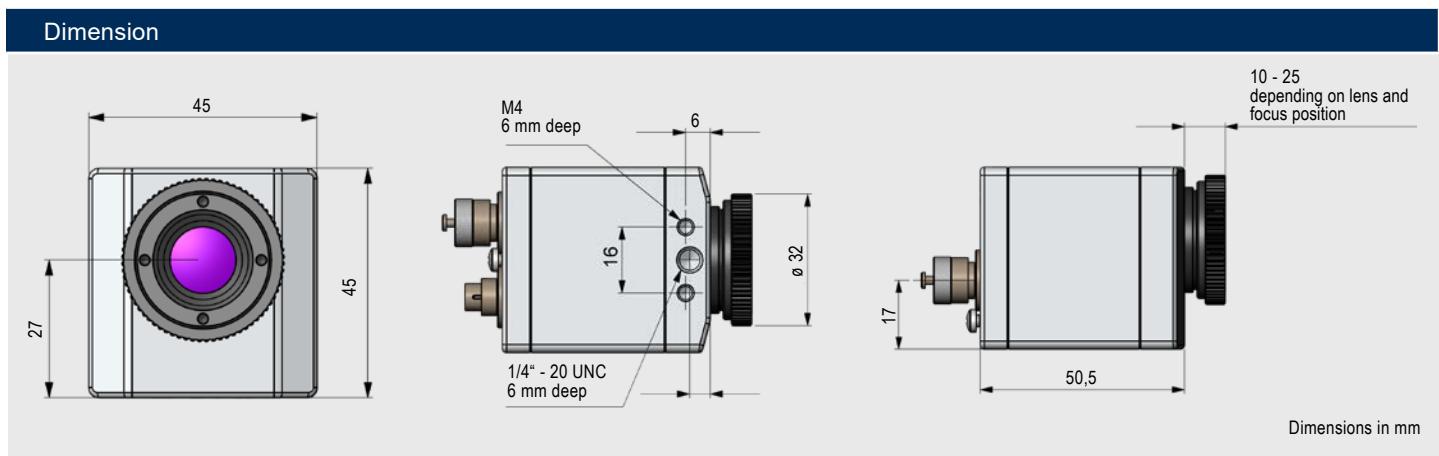
Optical resolution	382 x 288 pixels
Detector	FPA, uncooled (17 µm x 17 µm)
Spectral range	8 – 14 µm
Temperature range	-20 ... 100 °C, 0 ... 250 °C, (20) 150 ... 900 °C <sup>1)</sup> , optional temperature range: 200 ... 1500 °C
Frame rate	80 Hz / switchable to 27 Hz
Optik (FOV)	18° x 14° / f = 20 mm 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)	75 mK with 29° x 22° FOV / F = 0.9 75 mK with 53° x 38° FOV / F = 0.9 75 mK with 80° x 54° FOV / F = 0.9 0.1 K with 18° x 14° FOV / F = 1.1
Accuracy	±2 °C or ±2 %, whichever is greater
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)	2x 0 – 10 V input, digital input (max. 24 V), 3x 0/4 – 20 mA output, 3x relays (0 – 30 V/ 400 mA), fail-safe relay
Cable length (USB)	1 m (standard), 5 m, 10 m, 20 m 5 m and 10 m also as high temperature USB cable (180 or 250 °C)
Ambient temperature	0 ... 50 °C
Storage temperature	-40 ... 70 °C
Relative humidity	20 – 80 %, non condensing
Enclosure (size / protection)	45 x 45 x 60 – 75 mm (depending on lens + focus position) / IP 67 (NEMA 4)
Weight	195 g, incl. lens
Shock / Vibration <sup>2)</sup>	IEC 60068-2
Tripod mount	1/4 – 20 UNC
Power supply	via USB
Scope of supply (standard)	<ul style="list-style-type: none"> <li>• USB camera, incl. 1 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>• Aluminum case</li> </ul>

<sup>1)</sup> Accuracy for the (20) 150 ... 900 °C range effective starting at 150 °C

<sup>2)</sup> For further details see operator's manual

# optris® PI 400i

## Dimension



## Process integration

