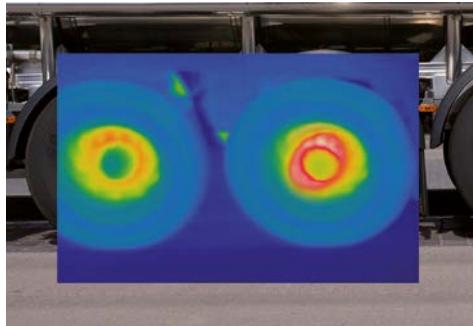
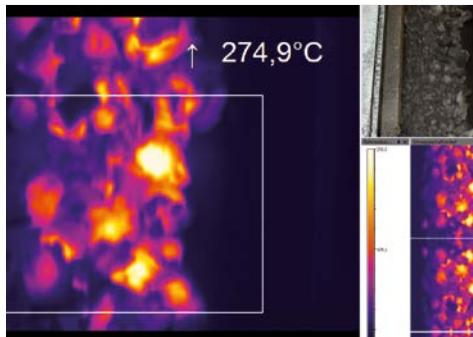
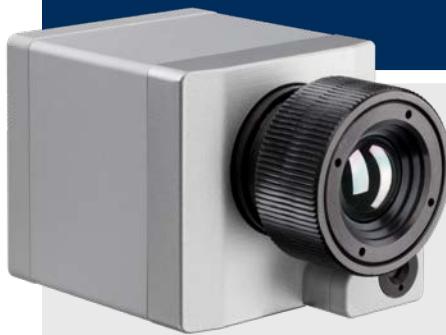


Infrared camera with BI-SPECTRAL Technology



For further information as well as the product configurator, please visit
[www.optris.global/
thermal-imager-optris-pi200-pi230](http://www.optris.global/thermal-imager-optris-pi200-pi230)

Features:

- Time-synchronized visual image recording at up to 32 Hz (640 x 480 pixels)
- Real image camera is highly sensitive in low-light conditions
- Thermal images up to 128 Hz (160 x 120 pixels)
- Compact design 45 x 45 x 60 mm

Technical specifications

Optical resolution	160 x 120 pixels
Detector	FPA, uncooled (25 µm x 25 µm)
Spectral range	8 – 14 µm
Temperature range	-20 ... 100 °C, 0 ... 250 °C, (20) 150 ... 900 °C ¹⁾ , optional temperature range: 200 ... 1500 °C ²⁾
Frame rate	128 Hz ²⁾
Optics (FOV)	6° x 5° FOV / f = 35.5 mm or 23° x 17° FOV / f = 10 mm (recommended for PI 230) or 41° x 31° FOV / f = 5.7 mm (recommended for PI 200) or 72° x 52° FOV / f = 3.3 mm
Thermal sensitivity (NETD)	40 mK with 23° x 17° FOV / F = 0.8 0.3 K with 6° x 5° FOV / F = 1.6 0.1 K with 41° x 31° FOV und 72° x 52° FOV / F = 1
Visual camera	Optical resolution 640 x 480 pixels / Frame rate 32 Hz ³⁾ Optics (FOV): 54° x 40° (PI 200), 30° x 23° (PI 230)
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 – 10 V 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 available as high temperature 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 - 76 mm (depending on lens + focus position) / IP 67 (NEMA 4)
Weight	215 g, incl. lens
Shock / Vibration ⁴⁾	IEC 60068-2
Tripod mount	1/4-20 UNC
Power supply	via USB
Scope of supply (standard)	<ul style="list-style-type: none"> • USB camera, 1 lens incl. • Standard PIF with cable (1 m), terminal block incl. • Software package optris® PIX Connect • Table tripod • USB cable (1 m) • Aluminium case

¹⁾ Accuracy effective starting at 150 °C

²⁾ Not available für 72° lense

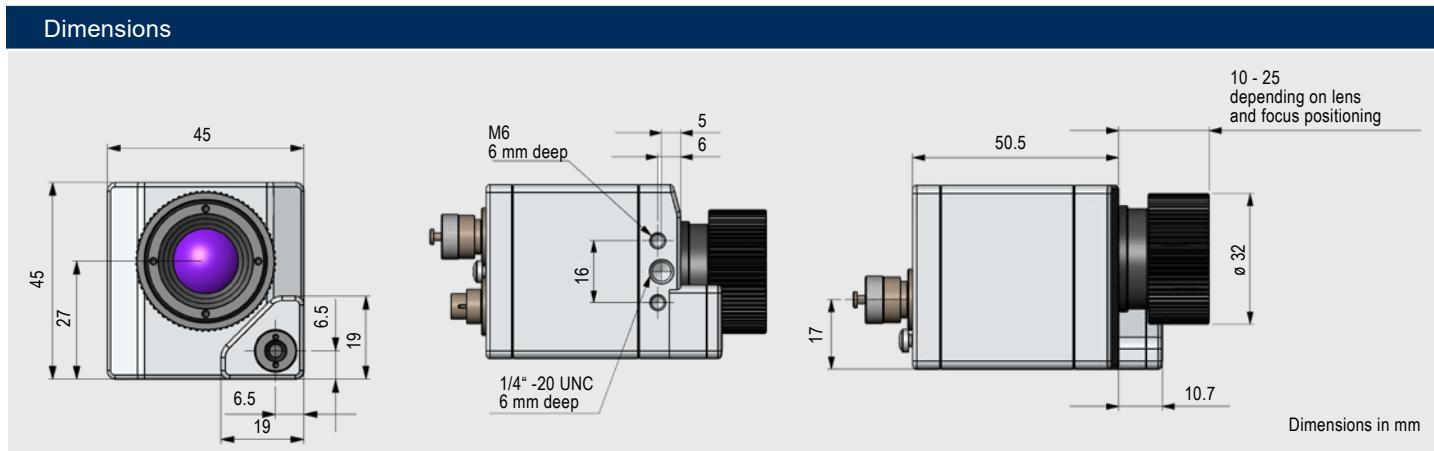
³⁾ Options: 1) IR with 96 Hz at 160 x 120 px; VIS with 32 Hz at 640 x 480 px

2) IR with 128 Hz at 160 x 120 px; VIS with 32 Hz at 596 x 447 px

⁴⁾ For further details see operator's manual

optris® PI 200 / 230

Dimensions



Dimensions in mm

Process integration

