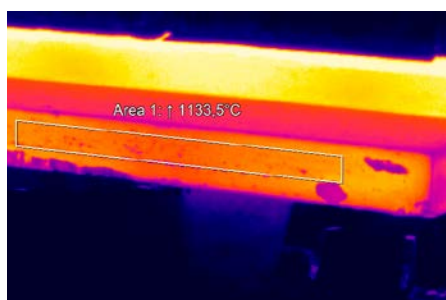
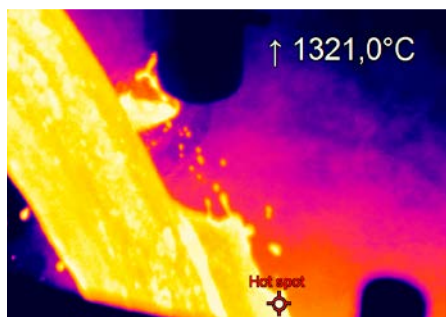


Short wavelength
and ultra compact
infrared camera



Features:

- Wide measurement range from 900 °C to 2000 °C without sub-ranges
- Usable without filter for laser applications
- Special wavelength range of 500-540 nm minimizes errors due to uncertainty of emissivity
- High dynamic CMOS detector with up to 764 x 480 pixels resolution
- Up to 1 kHz frame rate for fast processes
- Real-time analog output with 1 ms response time
- Extensive software package and SDK included



For further information as well as the product configurator, please visit:
www.optris.global/neu-thermal-imager-optris-pi-05m

Technical specifications

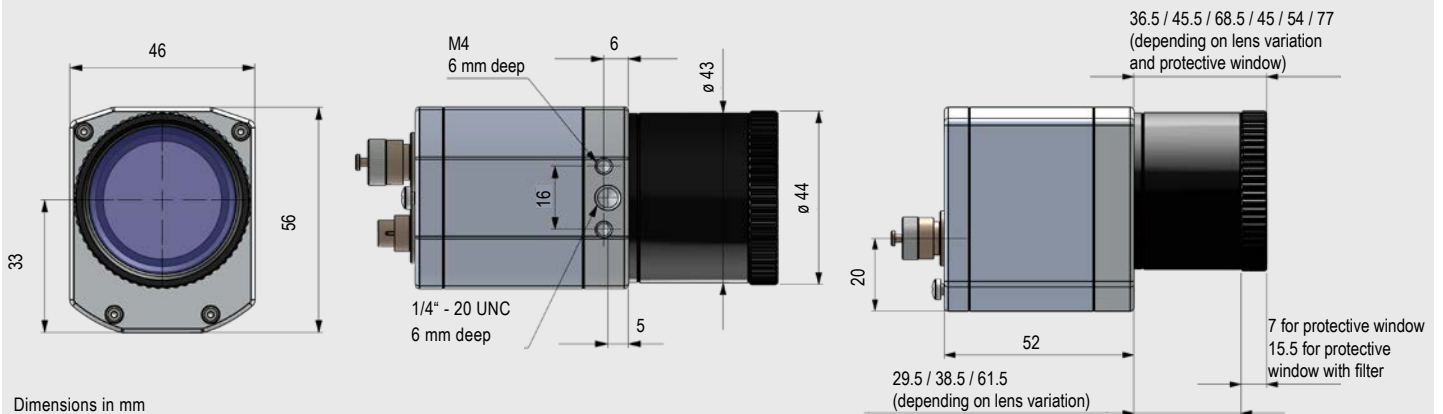
Optical resolution (switchable)/ Frame rate	764 x 480 pixels @ 32 Hz 382 x 288 pixels @ 80 Hz (switchable to 27 Hz) 72 x 56 pixels @ 1 kHz ¹⁾ 764 x 8 pixels @ 1 kHz (fast linescanning mode) ¹⁾
Detector	CMOS (15 µm x 15 µm)
Spectral range	500 – 540 nm
Temperature range	900 °C ... 2000 °C (27 Hz mode) 950 °C ... 2000 °C (32 / 80 Hz mode) 1100 °C ... 2000 °C (1 kHz mode)
Optics	FOV @ 764 x 480 px: 26° x 16° (f = 25 mm) FOV @ 382 x 288 px: 13° x 10° (f = 25 mm)
Thermal sensitivity (NETD)	< 2 K (1400 °C) for 27 Hz, 32 Hz and 80 Hz < 2.5 K (1400 °C) for 1 kHz
Accuracy	±1.5 % of reading
PC interface	USB 2.0 / optional USB to GigE (PoE) conversion
High speed analog output (@ 1 kHz mode)	0 – 10 V real time output of 8x8 pixel (1 ms response time)
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 inputs, digital input (max. 24 V), 3x 0 – 10 V outputs, 3x relay (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 USB cable (180 or 250 °C)
Ambient temperature	5 °C ... 50 °C
Storage temperature	–40 °C ... 70 °C
Relative humidity	20 – 80 %, non-condensing
Enclosure (size/ rating)	46 x 56 x 88 - 129 mm (depending on lens + focus position) / IP 67 (NEMA 4) ²⁾
Weight	320 g, incl. lens
Shock / Vibration ³⁾	IEC 60068-2
Tripod mount	¼ – 20 UNC
Power supply	via USB
Scope of supply (standard)	<ul style="list-style-type: none"> • USB camera with 1 lens • Lens protection tube incl. protective window • USB cable (1 m) • Table tripod • PIF cable (1 m) incl. terminal block • Software package optris® PIX Connect • Aluminum case, Optional: CoolingJacket, • High temperature cable

¹⁾ Can be placed anywhere within the full FOV

²⁾ Only applies when lens protection tube is used

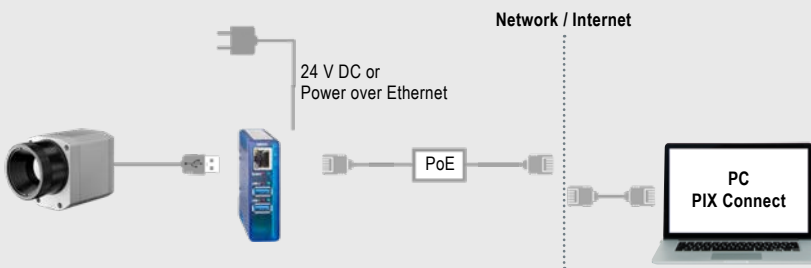
³⁾ For more details see operator's manual

Dimensions



Dimensions in mm

Process integration

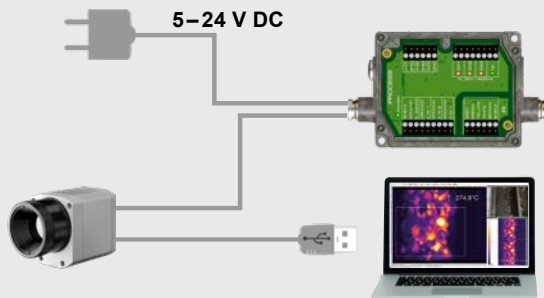


optris® USB Server Gigabit 2.0

- Network connection via Gigabit Ethernet
- Full TCP/IP support incl. routing and DNS
- Two independent USB portschlüsse
- Power over PoE or external voltage supply at 24 - 48 V DC
- Galvanic isolation 500 V_{RMS}
- Remotely configurable via web based management

For further information please visit

www.optris.global/usb-server-gigabit

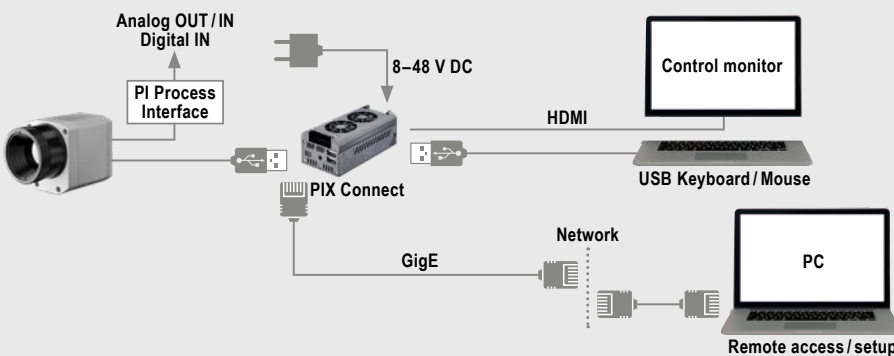


optris® Industrial process interface

- Use of camera for process monitoring in industrial environments
- Continuous fail safe monitoring of imager, software and cable connections
- 3 analog / alarm outputs, 2 analog inputs, 1 digital input, 3 alarm relay 1 fail-safe relay

For further information please visit

www.optris.global/neu-industrial-process-interface



optris® PI NetBox

- Miniature PC as add-on to the PI series for stand-alone system
- Integrated hardware and software watchdog
- Connections: 2x USB 2.0, 1x USB 3.0, 1x Mini-USB 2.0, Micro-HDMI, Ethernet (Gigabit Ethernet), micro SDHC / SDXC card

For further information please visit

www.optris.global/pi-netbox

DISTRAME SA

Parc du Grand Troyes - Quartier Europe Centrale 40 rue de Vienne - 10300 SAINTE-SAVINE
Tél. : 03 25 71 25 83 - Fax : 03 25 71 28 98 - infos@distrame.fr - www.distrame.fr