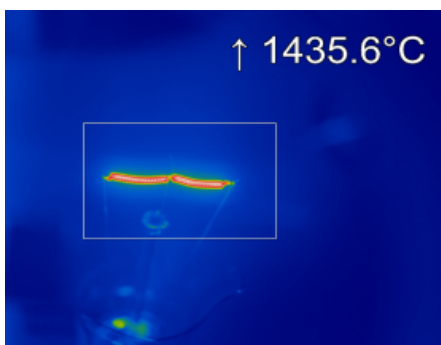
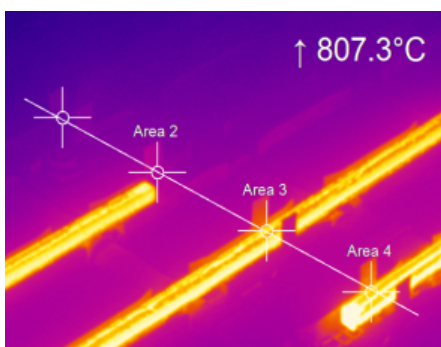
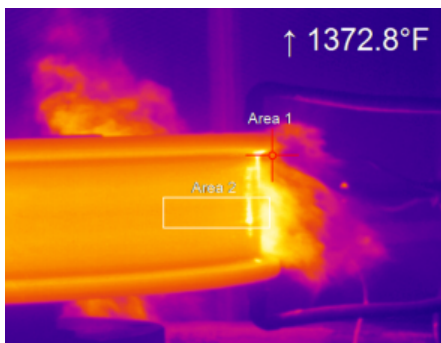


Ultra compact short wavelength infrared camera for metal surfaces

Features:

- High dynamic CMOS detector with up to 764 x 480 pixel resolution
- Wide measurement ranges from 450 °C to 1800 °C
- Up to 1 kHz frame rate for fast processes
- Real-time analog output with 1 ms response time
- Extensive software package and SDK included
- 1 kHz linescanning function possible



Model	PSC-764-1M	
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 764 x 8 pixels @ 1 kHz (fast linescanning mode)	
Detector	CMOS (15 μm x 15 μm)	
Spectral range	0.85 – 1.1 μm	
Temperature ranges	450 ¹⁾ ... 1800 °C (27 Hz mode) 500 ¹⁾ ... 1800 °C (80 Hz and 32 Hz mode) 600 ¹⁾ ... 1800 °C (1 kHz mode)	
Optics	FOV @ 764 x 480 pixel: FOV @ 382 x 288 pixel: 39° x 25° (f = 16 mm) 20° x 15° (f = 16 mm) 26° x 16° (f = 25 mm) 13° x 10° (f = 25 mm) 13° x 8° (f = 50 mm) 7° x 5° (f = 50 mm) 9° x 5° (f = 75 mm) 4° x 3° (f = 75 mm)	
Thermal sensitivity (NETD) ²⁾	< 1 K (700 °C), < 2 K (1000°C)	
Accuracy (at T _{amb} = 23 °C)	± 1 % of reading (object temperature < 1400°C)	
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 the center pixel (1 ms response time)	
Standard process interface (PIF)	0–10 V output or switchable to 0-10 V input, digital input (max. 24 V)	
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 relays	
Cable length (USB)	1 m (standard), 5 m, 10 m 5 m and 10 m also available as HT cable (180°C)	
Ambient temperature	5°C to 50°C // 41°F to 122°F	
Storage temperature	–40°C to 70°C // -40°F to 159°F	
Relative humidity	20–80 %, non-condensing	
Enclosure (size/ rating)	46 mm x 56 mm x 90 mm/ IP 67 (NEMA 4) ³⁾	
Weight	320 g, incl. lens	
Shock ⁴⁾	IEC 60068-2-27 (25 g and 50 g)	
Vibration ⁴⁾	IEC 60068-2-6 (sinus-shaped)/ IEC 60068-2-64 (broadband noise)	
Tripod mount	¼–20 UNC	
Power supply	USB powered	
Scope of supply (standard)	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® PI Connect, Aluminum case, Optional: CoolingJacket, High temperature cable	

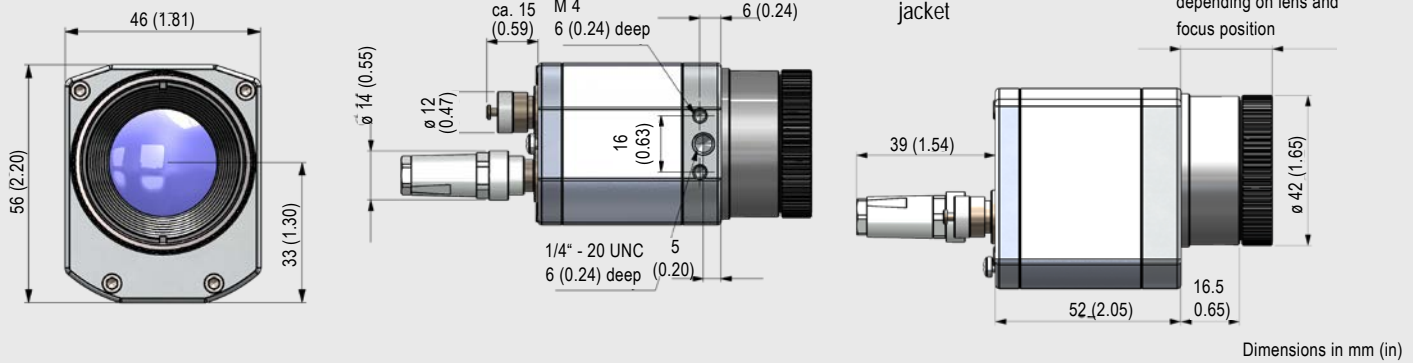
¹⁾ +75 °C start temperature for optics with focal length f = 50 mm, f = 75 mm

²⁾ at 27 Hz, 32 Hz and 80 Hz

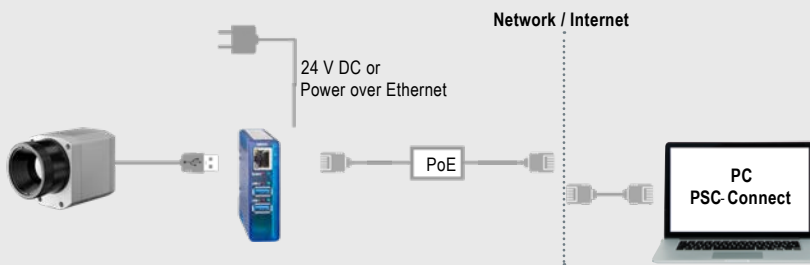
³⁾ Only applies when lens protection tube is used

⁴⁾ For more details see operator's manual

Dimensions

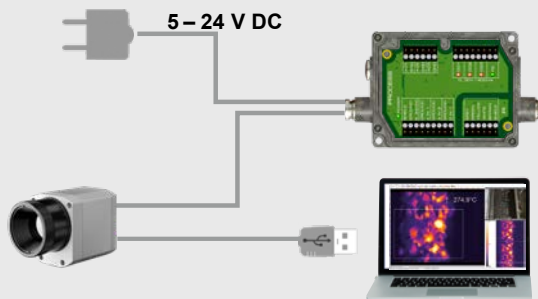


Process integration



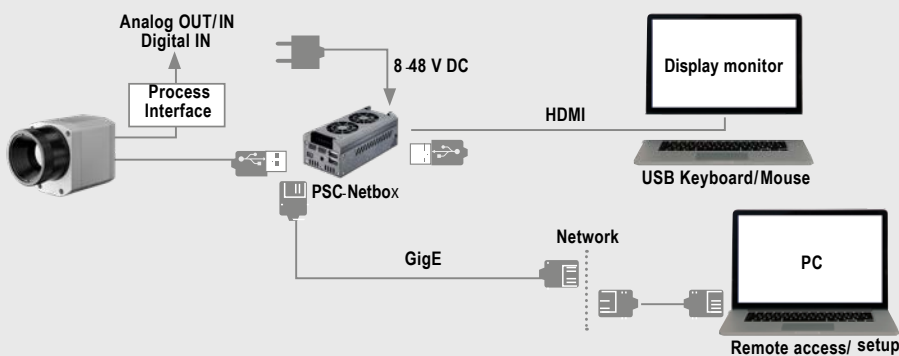
USB-Server Gigabit 2.0

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



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 relays 1 fail safe relay



Surveyor NetBox

- Miniature PC as add-on to the Surveyor 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

787 Susquehanna Avenue
Franklin Lakes, NJ 07417
PH: 201-485-8773, 8772
FX: 201-485-8770

PROCESS SENSORS CORPORATION
www.processsensors.com
irtemp@processsensors.com

113 Cedar Street,
Milford, MA 01757
PH: 508-473-9901
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