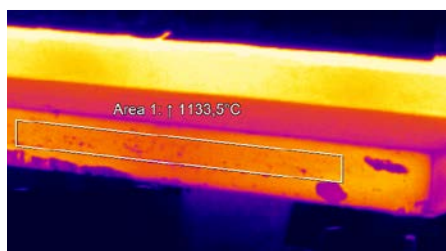
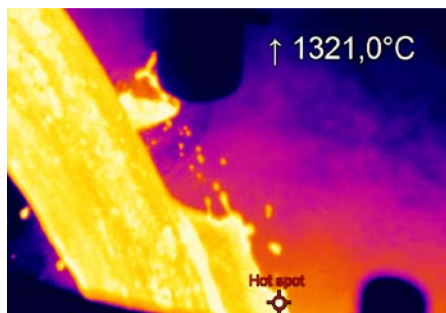




## Short wavelength and ultra compact infrared camera

### Features:

- Wide measurement range from 900 °C to 2450 °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](http://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 <sup>1)</sup> 764 x 8 pixels @ 1 kHz (fast linescanning mode) <sup>1)</sup>	
Detector	CMOS (15 µm x 15 µm)	
Spectral range	500 – 540 nm	
Temperature range	900 °C ... 2450 °C (27 Hz mode) 950 °C ... 2450 °C (32 / 80 Hz mode) 1100 °C ... 2450 °C (1 kHz mode)	
Optics	<b>FOV @ 764 x 480 px:</b> 26° x 16° (f = 25 mm)	<b>FOV @ 382 x 288 px:</b> 13° x 10° (f = 25 mm)
Thermal sensitivity (NETD)	< 2 K (1400 °C/ 27 Hz to 1 kHz) <sup>2)</sup>	
Accuracy	+/- 1 % of reading (<2000 °C)/ +/- 1,5 % of reading (>2000 °C) <sup>3)</sup>	
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 0/4 – 20 mA 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) <sup>4)</sup>	
Weight	245 - 311 g, (depending on lens)	
Shock / Vibration <sup>5)</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	
Software	optris PIX Connect / IRmobile Android App	
Scope of supply (standard)	<ul style="list-style-type: none"> <li>• USB camera with 1 lens</li> <li>• Lens protection tube incl. protective window</li> <li>• USB cable (1 m)</li> <li>• Table tripod</li> </ul>	<ul style="list-style-type: none"> <li>• PIF cable (1 m) incl. terminal block</li> <li>• Software package optris PIX Connect</li> <li>• Aluminum case</li> <li>Optional: CoolingJacket; HT cable</li> </ul>

<sup>1)</sup> Can be placed anywhere within the full FOV

<sup>2)</sup> < 4 K (>1400 °C/ 27 Hz to 1 kHz)

<sup>3)</sup> for 1 kHz mode: +/- 1,5 % of reading (<2000 °C)/ +/- 2 % of reading (>2000 °C)

<sup>4)</sup> Only applies when lens protection tube is used

<sup>5)</sup> For more details see operator's manual

