Optics (FOV)  
- 15° x 11° FOV / f = 41.5 mm (f = 1.6 in)
- 33° x 25° FOV / f = 18.7 mm (f = 0.7 in)
- 60° x 45° FOV / f = 10.5 mm (f = 0.4 in)
- 90° x 64° FOV / f = 7.7 mm (f = 0.3 in)

Thermal sensitivity (NETD) 40 mK

Accuracy ±2 °C or ±2 % (±3.6 °F or ±2 %), whichever is greater

PC interface USB 2.0 / optional USB to Gig* (PoE) interface

Process interface (PIF), standard 0 – 10 V input, digital input (max. 24 V), 0 – 10 V output

Process interface (PIF), industrial 2x 0 – 10 V input, 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 (standard) / 5 m / 10 m / 20 m (3.3 / 16.4 / 32.8 / 65.6 ft)

Ambient temperature 0 °C ... 50 °C (32 °F ... 122 °F)

Storage temperature –40 ... 70 °C (–40 ... 158 °F)

Relative humidity 20 – 80 %, non-condensing

Enclosure (size / rating) 46 x 56 x 76 - 100 mm (1.8 x 2.2 x 3.0 - 3.9 in) (depending on lens + focus position) / IP 67 (NEMA 4)

Weight 269 - 340 g (10.59 - 13.38 oz), depending on lens

Shock / Vibration 2) 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 USB powered

Scope of supply • USB camera with 1 lens
• USB cable (1 m [3.3 ft])
• Table tripod
• Standard PIF with cable (1 m [3.3 ft]) and terminal block
• Software package optris PIX Connect
• Hard transport case

Features:
- 640 x 480 pixels
- Superb thermal sensitivity of 40 mK
- Radiometric video recording with 32 Hz / 125 Hz in subframe mode
- Interchangeable lenses: 15°, 33°, 60° and 90°
- Licence-free analysis software and complete SDK inclusive

1) Accuracy effective starting at 150° C (302 °F)
2) For more details see operator’s manual
**Dimensions**

- **M4** (0.24) deep
- ca. 15 (0.59)
- ø 14 (0.55)
- ø 12 (0.47)
- 1/4" - 20 UNC
- 6 (0.24) deep
- 6 (0.24) deep
- ø 6 (0.24)
- 6 (0.24)
- 5 (0.20)
- 5 (0.20)
- 39 (1.54)
- ø 16 (0.63)
- 24-29 (0.94-1.14)
- 24-29 (0.94-1.14) depending on lens and focus position

**Process integration**

- **optris PI NetBox**
  - Miniature PC as add-on to the PI series
  - 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

- **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 relais, 1 fail-safe relay

For further information please visit [www.optris.com/pi-netbox](http://www.optris.com/pi-netbox) and [www.optris.com/industrial-process-interface](http://www.optris.com/industrial-process-interface)

- **optris 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<sub>RMS</sub>
  - Remotely configurable via web based management

For further information please visit [www.optris.com/usb-server-industry-isochron](http://www.optris.com/usb-server-industry-isochron)