



# Xi 80

Spot finder IR camera

when temperature matters



**Compact spot finder  
IR camera**

**Features:**

- Industrial imager with 80 x 80 pixels for exact temperature measurement of -20 °C to 900 °C
- Small sized rugged camera with motorized focus
- Superb distance-to-spot-size ratio up to 190:1 with sighting capabilities
- Autonomous operation with automatic spot finder and direct analog output – ideal for OEM use
- Optional stackable industrial process interface with up to 9 analog or alarm outputs
- Extensive ready-to-use package for an attractive price – including versatile image processing software and connection cables



**Technical Specifications**

Optical resolution	80 x 80 pixels
Detector	FPA, uncooled (34 µm pitch)
Spectral range	8 – 14 µm
Temperature ranges	-20 °C ... 100 °C, 0 °C ... 250 °C, (20) 150 °C ... 900 °C <sup>1)</sup>
Frame rate	50 Hz
Optics (FOV)	12° (f = 12.7), 30° (f = 5.1), 55° (f = 3.1), 80° (f = 2.3)
Focus	Manual motor focus
Optical resolution (D:S)	190:1 (12° optics)
Thermal sensitivity (NETD)	100 mK
Accuracy	±2 °C or ±2 %, whichever is greater
PC interface	USB 2.0 / Ethernet (100 Mbit/s) / PoE / RS 485 <sup>2)</sup>
Direct Output/Input	1x analog output (0/4-20 mA) / 1x input (analog or digital); electrically isolated
Process interface (PIF), industrial	3x analog outputs (0/4–20 mA or 0–10 V) and 3x alarm outputs (relais) / 3x inputs (analog or digital) / fail-safe (LED and relay); stackable up to 3 PIFs; electrically isolated
Cable length	USB: 1 m (standard), 3 m, 5 m, 10 m and 20 m Ethernet / RS485: 100 m
Ambient temperature	0 °C ... 50 °C
Enclosure (size / rating)	Ø 36 mm x 90 mm (M30x1 thread) / IP 67 (NEMA 4)
Weight (without mounting bracket)	201 - 210 g (depending on lens)
Shock / Vibration <sup>3)</sup>	IEC 60068-2-27 (25G and 50G) / IEC 60068-2-6 (sinus shaped), IEC 60068-2-64 (broadband noise)
Power supply	USB / PoE / 5-30 VDC
Scope of supply	<ul style="list-style-type: none"> <li>• Process imager Xi</li> <li>• USB cable (1 m)</li> <li>• Cable for output/input (1 m) incl. terminal block</li> <li>• Mounting bracket with tripod thread, mounting nut</li> <li>• Software package optris PIX Connect</li> </ul>

<sup>1)</sup> Accuracy statement effective from 150 °C

<sup>2)</sup> Direct out- and inputs are not available while using the RS485 interface

<sup>3)</sup> For more details see operator's manual