



New

Xi 80

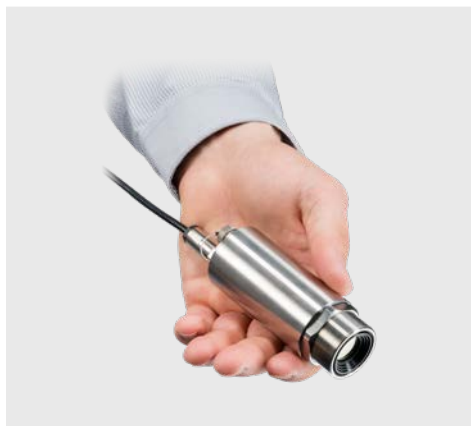
Spot finder IR camera

innovative infrared technology

Compact spot finder IR camera

Features:

- Industrial imager with 80 x 80 pixels for exact temperature measurement of -20 °C to 900 °C (-4 °F to 1652 °F)
- Small sized rugged camera with motorized focus
- Distance-to-spot-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 x 34 µm)
Spectral range	7.5 – 13 µm
Temperature ranges	-20 °C ... 100 °C (-4 °F ... 212 °F), 0 °C ... 250 °C (32 °F ... 482 °F), (20 [68]) 150 °C ... 900 °C ¹⁾ (302 °F ... 1652 °F) ¹⁾
Frame rate	50 Hz
Optics (FOV)	12° (f = 12.7 [0.50]), 30° (f = 5.1 [0.20]), 55° (f = 3.1 [0.12]), 80° (f = 2.3 [0.09])
Focus	Manual motor focus
Optical resolution D:S	190:1 (12° optics)
Thermal sensitivity (NETD)	100 mK
Accuracy	±2 °C or ±2 % (±3.6 °F or ±2 %), whichever is greater
PC interface	USB 2.0 / Ethernet (100 Mbit/s) / PoE / RS 485 ²⁾
Direct Output/Input	1x analog output (0/4-20 mA) / 1x input (analog or digital); optically isolated
Process interface (PIF), industrial	3x analog outputs (0/4-20 mA or 0-10 V) or alarm OUT (relais) / 3x inputs (analog or digital) / fail-safe (LED and relay); stackable up to 3 PIFs; optically isolated
Cable length (USB)	USB: 1 m (3.3 ft) (standard), 3 m (9.8 ft), 5 m (16.4 ft), 10 m (32.8 ft), 20 m (65.6 ft) Ethernet / RS485: 100 m (328.1 ft)
Ambient temperature	0 °C to 50 °C (32 °F to 122 °F)
Enclosure (size / rating)	Ø 36 mm x 90 mm (Ø 1.42 in x 3.54 in) (M30x1 thread) / IP 67 (NEMA 4)
Weight	185 g (6.5 oz)
Shock / Vibration ³⁾	IEC 60068-2
Power supply	USB / PoE / 5-30 VDC
Scope of supply	<ul style="list-style-type: none"> • Process imager Xi • USB cable (1 m [3.3 ft]) • Cable for output/input (1 m) incl. terminal block • Mounting bracket with nut • Software package optris® PIX Connect

¹⁾ Accuracy statement effective from 150 °C

²⁾ Direct out- and inputs are not available while using the RS485 interface

³⁾ For more details see operator's manual