



Xi 80

Spot finder IR camera

when temperature matters

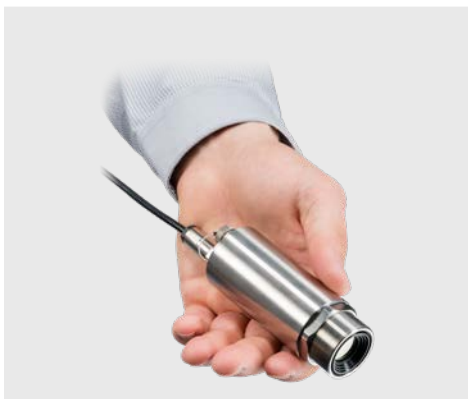
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TECHNICAL DATA

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	8 – 14 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	$\pm 2^{\circ}\text{C}$ or $\pm 2\%$ ($\pm 3.6^{\circ}\text{F}$ or $\pm 2\%$), 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)	\varnothing 36 mm x 90 mm (\varnothing 1.42 in x 3.54 in) (M30x1 thread) / IP 67 (NEMA 4)
Weight (without mounting bracket)	201 - 210 g, (7.1 - 7.4 oz) depending on lens
Shock / Vibration ³⁾	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"> • 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