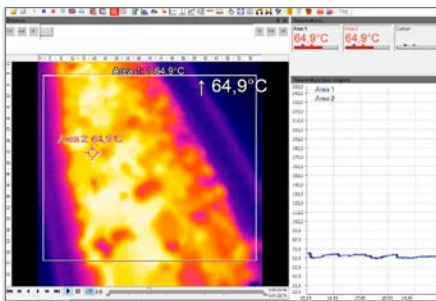


Compact spot finder IR camera



Monitoring conveyor belt - deployment of Xi 80
as an efficient tool for fire safety

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

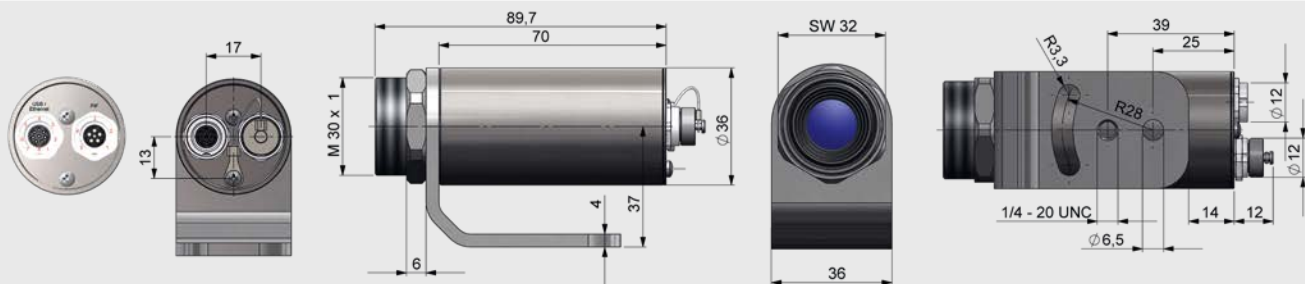
Optical resolution	80 x 80 pixels
Detector	FPA, uncooled ($34\text{ }\mu\text{m} \times 34\text{ }\mu\text{m}$)
Spectral range	8 – 14 μm
Temperature ranges	$-20^{\circ}\text{C} \dots 100^{\circ}\text{C}$ ($-4^{\circ}\text{F} \dots 212^{\circ}\text{F}$), $0^{\circ}\text{C} \dots 250^{\circ}\text{C}$ ($32^{\circ}\text{F} \dots 482^{\circ}\text{F}$), (20 [68]) $150^{\circ}\text{C} \dots 900^{\circ}\text{C}^{(1)}$ ($302^{\circ}\text{F} \dots 1652^{\circ}\text{F}^{(1)}$)
Frame rate	50 Hz
Optics (FOV)	12° (f = 12.7 mm [0.50 in]) 30° (f = 5.1 mm [0.20 in]) 55° (f = 3.1 mm [0.12 in]) 80° (f = 2.3 mm [0.09 in])
Focus	Motorized focus
Optical resolution D:S	190:1 (12° optics)
Direct Output/ Input ²⁾	1x analog output (0/4-20 mA) / 1x input (analog or digital); electrically isolated
Thermal sensitivity (NETD) ³⁾	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⁾
Process interface (PIF), industrial	3x analog outputs (0/4–20 mA or 0–10 V) and 3x alarm outputs (relays) / 3x inputs (analog or digital) / fail-safe (LED and relay); stackable up to 3 PIFs; electrically isolated
Cable length (USB)	Ethernet / RS485: 20 m (65.6 ft), (extendable up to 100 m [328.1 ft]) USB: 1 m (3.3 ft) (standard), 3 m (9.8 ft), 5 m (16.4 ft)
Ambient temperature	0°C to 50°C (32°F to 122°F)
Enclosure (size / rating)	$\varnothing 36\text{ mm} \times 90\text{ mm}$ ($\varnothing 1.42\text{ in} \times 3.54\text{ in}$); (M30x1 thread) / IP 67 (NEMA 4)
Weight (without mounting bracket)	201 - 210 g, (7.1 - 7.4 oz) depending on lens
Shock ³⁾ / Vibration ³⁾	IEC 60068-2-27 (25G and 50G) / IEC 60068-2-6 (sinus shaped), IEC 60068-2-64 (broadband noise)
Power supply	5-30 V DC / PoE / USB
Scope of supply	• 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

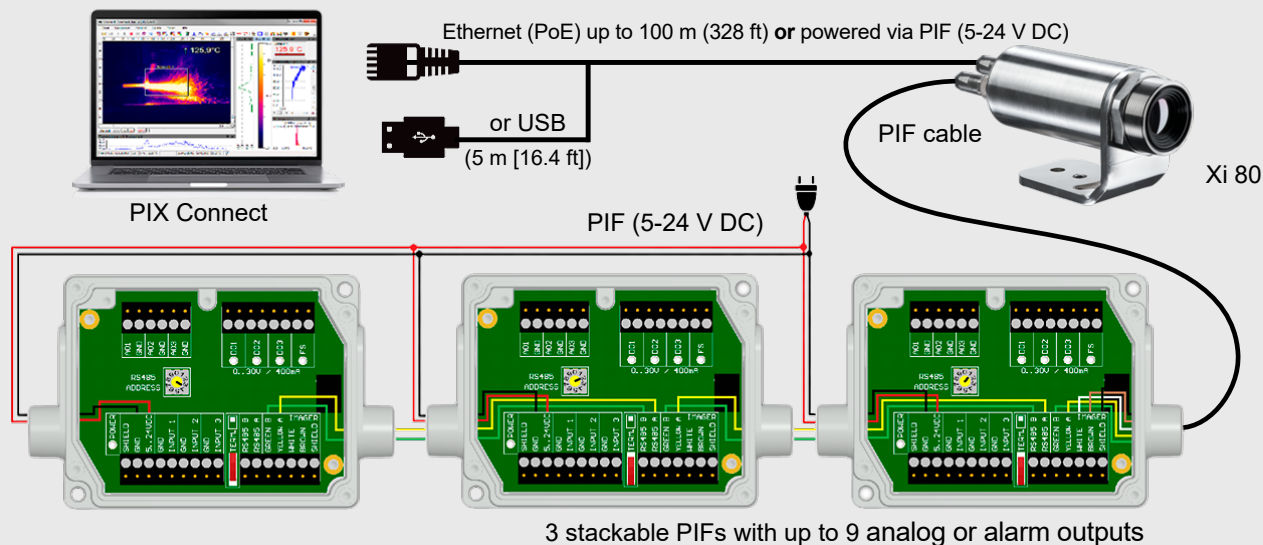
³⁾ For more details see operator's manual

optris Xi 80

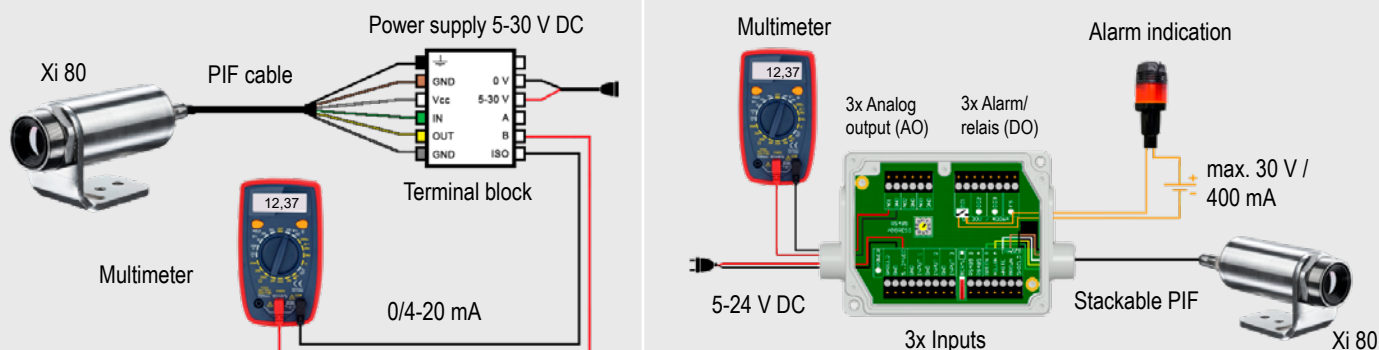
Dimensions in mm (in)



Operation with PIX Connect software and 3 stackable PIFs



Autonomous operation (without PC) with up to 3 analog outputs/ alarm outputs



Accessories

ACXIAPL (Air purge unit) +
ACXIAPLAB (Mounting bracket)



ACXIMW (Water cooled housing)



ACXISCBxx* (Shutter) +
ACXIAPLAB (Mounting bracket)



*) xx = for different cable lengths