



New

Xi 400

Spot finder IR camera

innovative infrared technology

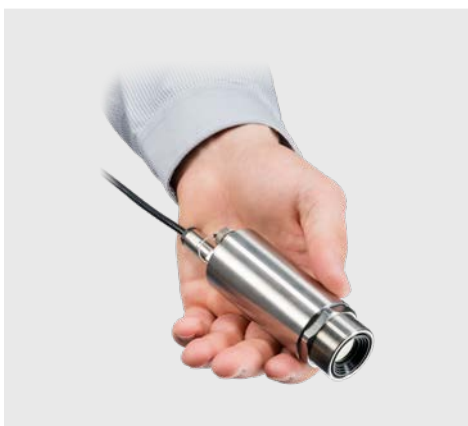
optris® Xi 400

TECHNICAL DATA

Compact spot finder IR camera

Features:

- Industrial imager with 382 x 288 pixels for exact temperature measurement of -20°C to 900°C (-4°F to 1652°F)
- Small sized rugged camera with motorized focus
- Superb distance-to-spot-size-ratio up to 390:1 with sighting capabilities
- 80 Hz frame rate for monitoring of fast thermal processes
- Extensive ready-to-use package for an affordable price – including versatile image processing software with line-scan feature and connection cables



Type	Xi 400
Optical resolution	382 x 288 pixels
Detector	FPA, uncooled (17 μm x 17 μm pitch)
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 ... $900^{\circ}\text{C}^{1)}$ (302°F ... $1652^{\circ}\text{F}^{1)}$
Frame rate	80 / 27 Hz
Optics (FOV)	18° x 14° (f = 20 [0.79]), 29° x 22° (f = 12.7 [0.50]), 53° x 38° (f = 7.7 [0.30]), 80° x 54° (f = 5.7 [0.22])
Optical resolution (D:S)	390:1 (18° optics)
Thermal sensitivity (NETD)	80 mK
Accuracy	$\pm 2^{\circ}\text{C}$ or $\pm 2\%$ ($\pm 4^{\circ}\text{F}$ or $\pm 2\%$), whichever is greater
PC interface	USB 2.0 / optional USB to GigE (PoE) conversion
Process interface (PIF), standard	0–10 V input, digital input (max. 24 V), 0–10 V output
Process interface (PIF), industrial	2 x 0–10 V inputs, digital input (max. 24 V), 3 x 0–10 V outputs, 3 x relay (0–30 V / 400 mA), fail-safe relay
Cable length (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)
Ambient temperature	0°C to 50°C (32°F to 122°F)
Enclosure (size / rating)	\varnothing 36 mm x 100 mm (\varnothing 1.42 in x 3.9 in) (M30x1 thread) / IP 67 (NEMA 4)
Weight	200 g (7.1 oz)
Shock ²⁾	IEC 60068-2-27 (25 G and 50 G)
Vibration ²⁾	<ul style="list-style-type: none"> • IEC 60068-2-6 (sinusoidal form) • IEC 60068-2-64 (broadband noise)
Power supply	USB
Scope of supply	<ul style="list-style-type: none"> • Process imager Xi • Standard PIF cable (1 m) incl. terminal block • Mounting bracket with nut • USB cable (1 m [3.3 ft]) • Software package optris® PIX Connect

¹⁾ Accuracy statement effective from 150°C (302°F)

²⁾ For more details see operator's manual