



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



Xi400 macro lens kit

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	$-20 \dots 100^{\circ}\text{C}$ ($-4 \dots 212^{\circ}\text{F}$), $0 \dots 250^{\circ}\text{C}$ ($32 \dots 482^{\circ}\text{F}$), (20 [68]) $150 \dots 900^{\circ}\text{C}^{1)}$ (302 ... 1652 $^{\circ}\text{F}^{1)}$
Frame rate	80 / 27 Hz
Optics (FOV)	$18^{\circ} \times 14^{\circ}$ ($f = 20$ [0.79]), $29^{\circ} \times 22^{\circ}$ ($f = 12.7$ [0.50]), $53^{\circ} \times 38^{\circ}$ ($f = 7.7$ [0.30]), $80^{\circ} \times 54^{\circ}$ ($f = 5.7$ [0.22])
Macro optics	$18^{\circ} \times 14^{\circ}$ ($f = 20$), smallest measuring spot (MFOV): 240 μm
Focus	Manual motor focus
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)	$\varnothing 36 \text{ mm} \times 100 \text{ mm}$ ($\varnothing 1.42 \text{ in} \times 3.9 \text{ in}$) (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⁾	• IEC 60068-2-6 (sinusoidal form) • IEC 60068-2-64 (broadband noise)
Power supply	USB
Scope of supply	• Process imager Xi • USB cable (1 m [3.3 ft]) • Standard PIF cable (1 m) incl. terminal block • Mounting bracket with nut • Software package optris® PIX Connect

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

²⁾ For more details see operator's manual