



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