



Xi 400

Spot finder IR camera

when temperature matters

Compact spot finder IR camera



Xi400 microscope optics lens kit

Features:

- Industrial imager with 382 x 288 pixels for exact temperature measurement of -20 °C ... 900 °C
- 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 attractive price – including versatile image processing software with line-scan feature and connection cables

Technical Specifications

| | |
|---|---|
| Optical resolution | 382 x 288 pixels |
| Detector | FPA, uncooled (17 µm pitch) |
| Spectral range | 8 – 14 µm |
| Temperature ranges | -20 ... 100 °C, 0 ... 250 °C, (20) 150 ... 900 °C ¹⁾ |
| Frame rate | 80 Hz / 27 Hz |
| Optics (FOV) | 18° x 14° (f = 20), 29° x 22° (f = 12.7), 53° x 38° (f = 7.7), 80° x 54° (f = 5.7) |
| Microscope lens (FOV) | 18° x 14° (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 | ±2 °C or ±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), 3x 0/4-20 mA outputs, 3 x relay (0–30 V / 400 mA), fail-safe relay |
| Cable length (USB) | 1 m (standard), 3 m, 5 m, 10 m, 20 m |
| Ambient temperature | 0 °C ... 50 °C |
| Enclosure (size / rating) | Ø 36 mm x 100 mm (M30x1 thread) / IP 67 (NEMA 4) |
| Weight (without mounting bracket) | 216 - 220 g, depending on lens |
| Shock ²⁾ / Vibration ²⁾ | IEC 60068-2-27 (25G and 50G) / IEC 60068-2-6 (sinus shaped), IEC 60068-2-64 (broadband noise) |
| Power supply | USB |
| Scope of supply | <ul style="list-style-type: none"> • Process imager Xi • USB cable (1 m) • Standard PIF cable (1 m) incl. terminal block • Mounting bracket with tripod thread, mounting nut • Software package optris PIX Connect |

¹⁾ Accuracy statement effective from 150 °C

²⁾ For more details see operator's manual