

**Compact spot finder
IR camera for
measurement through
flames from 475 °C (887 °F)
up to 1700 °C (3092 °F)**



Features:

- Industrial imager with 320 x 240 pixels
- Accurate temperature measurement through flames in the range from 475 °C up to 1700 °C (887 °F up to 3092 °F) to monitor workpieces inside furnaces, to measure inside chemical reactors or to observe brick temperature in combustion chambers
- Small sized rugged camera with motorized focus and optional cooling and protection accessories for use under harsh environments
- Optional stackable industrial PIF with up to 9 analog or alarm outputs
- Software with extensive analysis features and web server capability included



Xi 320 MT in combination with the air purge flange laminar



Xi 320 MT infrared imager measuring through flames inside a furnace

Technical Specifications

| | |
|---|---|
| Optical resolution | 320 x 240 pixels |
| Detector | FPA, uncooled (12 µm pitch) |
| Spectral range | 3.9 µm |
| Temperature range | 475 ... 1700 °C (887 ... 3092 °F) |
| Optical resolution / Frame rate | Ethernet: 320 x 240 pixels @ 30 Hz USB: 320 x 240 pixels @ 5 Hz |
| Optics (FOV) | 11° x 8° (f = 20 mm [0.79 in]) 17° x 13° (f = 13 mm [0.51 in]) 29° x 21° (f = 8 mm [0.31 in]) 41° x 30° (f = 6 mm [0.24 in]) |
| Focus | Manual motor focus |
| Optical resolution (D:S) | 550:1 (11° optics) |
| Thermal sensitivity (NETD) | 1 K @ 600 °C (1112 °F) |
| Accuracy | ±2 % |
| PC interface | Fast Ethernet / USB 2.0 |
| Direct Output / Input | 1x analog output (0/4-20 mA) / 1x input (analog or digital); electrically isolated |
| Process interface (PIF), industrial | 3x analog outputs (0/4-20 mA or 0-10 V) and 3x alarm outputs (relais) / 3x inputs (analog or digital) / fail-safe (LED and relay) stackable up to 3 PIFs; electrically isolated |
| Cable length | Ethernet: 1 m (3.3 ft) (standard), 5 m (16.4 ft), 10 m (32.8 ft), 20 m (65.6 ft) (up to 100 m [328 ft]) USB: 1 m (3.3 ft), 3 m (9.8 ft), 5 m (16.4 ft) |
| Ambient temperature | 0 °C ... 50 °C (32 ... 122 °F) |
| Enclosure (size / rating) | Ø 36 mm x 100 mm (Ø 1.42 in x 3.9 in) (M30x1 thread) / IP 67 (NEMA 4) |
| Weight (without mounting bracket) | 216 - 220 g (7.6 - 7.7 oz), depending on lens |
| Shock ¹⁾ / Vibration ¹⁾ | 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 | <ul style="list-style-type: none"> • Process imager Xi 320 MT • Ethernet/ PoE cable (1 m [3.3 ft])/ USB cable (1 m [3.3 ft]) • IN/ OUT cable incl. terminal block (1 m [3.3 ft]) • Mounting bracket with tripod thread, mounting nut • Software package optris PIX Connect |

¹⁾ For more details see operator's manual

