Xi 80
Spot finder IR camera
when temperature matters
Compact spot finder
IR camera

**Features:**
- Industrial imager with 80 x 80 pixels for exact temperature measurement of -20 °C to 900 °C
- Small sized rugged camera with motorized focus
- Superb distance-to-spot-size ratio up to 190:1 with sighting capabilities
- Autonomous operation with automatic spot finder and direct analog output – ideal for OEM use
- Optional stackable industrial process interface with up to 9 analog or alarm outputs
- Extensive ready-to-use package for an attractive price – including versatile image processing software and connection cables

**Technical Specifications**

- **Optical resolution**: 80 x 80 pixels
- **Detector**: FPA, uncooled (34 µm pitch)
- **Spectral range**: 8 – 14 µm
- **Temperature ranges**: -20 °C ... 100 °C, 0 °C ... 250 °C, (20) 150 °C ... 900 °C
- **Frame rate**: 50 Hz
- **Optics (FOV)**: 12° (f = 12.7), 30° (f = 5.1), 55° (f = 3.1), 80° (f = 2.3)
- **Focus**: Manual motor focus
- **Thermal sensitivity (NETD)**: 100 mK
- **Accuracy**: ±2 °C or ±2 %, whichever is greater
- **PC interface**: USB 2.0 / Ethernet (100 Mbit/s) / PoE / RS 485
- **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**: USB: 1 m (standard), 3 m, 5 m, 10 m and 20 m; Ethernet / RS485: 100 m
- **Ambient temperature**: 0 °C ... 50 °C
- **Enclosure (size / rating)**: Ø 36 mm x 90 mm (M30x1 thread) / IP 67 (NEMA 4)
- **Weight (without mounting bracket)**: 201 - 210 g (depending on lens)
- **Shock / Vibration**: IEC 60068-2-27 (25G and 50G) / IEC 60068-2-6 (sinus shaped), IEC 60068-2-64 (broadband noise)
- **Power supply**: USB / PoE / 5-30 VDC
- **Scope of supply**: • Process imager Xi • USB cable (1 m) • Cable for output/input (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) Direct out- and inputs are not available while using the RS485 interface
3) For more details see operator’s manual