optris
infrared measurements

distrame
instruments de mesures électroniques

New

Xi 80

innovative infrared technology

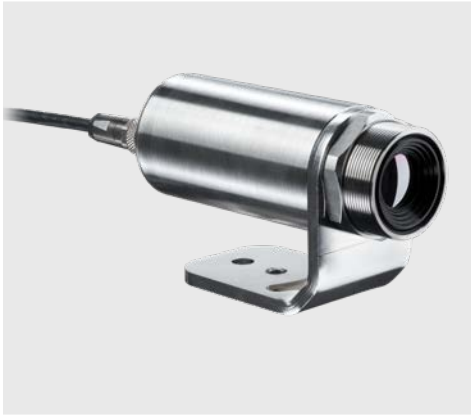
optris® Xi 80

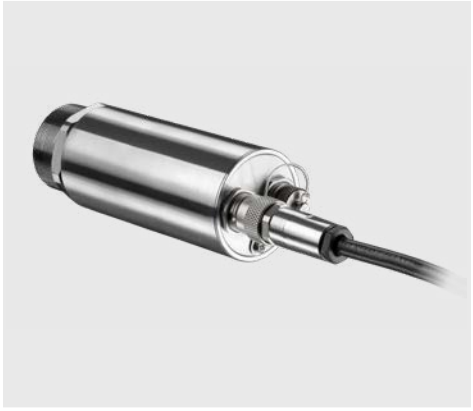
TECHNICAL DATA

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
- g 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	7.5 – 13 µm
Temperature ranges	–20 °C ... 100 °C, 0 °C ... 250 °C, (20) 150 °C ... 900 °C[1]
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
Optical resolution (D:S)	190:1 (12° optics)
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[2]
Direct Output/Input	1x analog output (0/4-20 mA) / 1x input (analog or digital); optically isolated
Process interface (PIF), industrial	3x analog outputs (0/4–20 mA or 0–10 V) or alarm OUT (relais) / 3x inputs (analog or digital) / fail-safe (LED and relay); stackable up to 3 PIFs; optically 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	185 g
Shock / Vibration [3]	IEC 60068-2
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

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