

Datenblatt

Infrarotkamera Optris Xi 05M MeltScope

OPTXI05M



Bezeichnung	OPTXI05M
Modell	Infrarotkamera Optris Xi 05M
Artikelnummer	OPTXI05MO14T245
Baureihe IR-Kameras	Compact Line Xi
Optische Auflösung	396 x 300 Pixel
Temperaturmessbereich	950°C ... 2450°C (20 Hz-Modus), 1050°C ... 2450°C (500 Hz-Modus)
Spektralbereich	0,50 - 0,54 µm
Bildwiederholfrequenz	20 Hz, 500Hz
Optiken (FOV)	14° x 10° / f = 25 mm
Thermische Empfindlichkeit (NETD)	< 4,5 K (+1800°C)
Systemgenauigkeit	±1 % vom Messwert (2000 °C)
Standard Prozess Interface (PIF)	1x Analogausgang (0/4-20 mA) / Eingang (analog oder digital); galvanisch getrennt
Industrielles Prozess Interface (PIF) optional	3x Analogausgänge (0/4-20mA o. 0-10V), 3x Alarmausgänge (Relais), 3x Eingänge (analog o. digital), Failsafe (LED und Relais) bis auf zu 3 PIFs erweiterbar; galvanisch getrennt
Schnittstelle	USB 2.0, RS485, Fast-Ethernet

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Spannungsversorgung	via USB, PoE, 8 - 30 VDC
Schutzgrad	IP67
Umgebungstemperatur	5°C ... 50°C
Gewicht	270 g
Abmessungen	Ø 36 x 1112 mm (M30x1 Gewinde)
Software	optris PIX Connect inklusive
Anwendung	Metallschmelzen
Bedienungsanleitung	Bedienungsanleitung Optris Xi Serie

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optris Xi 05M MeltScope

TECHNICAL DATA

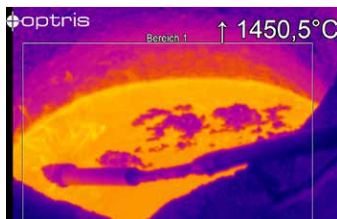
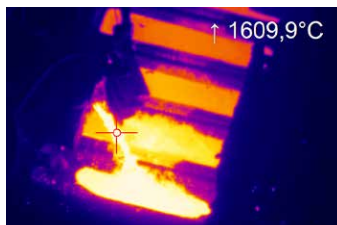


**Compact
short wavelength
spot finder IR camera
for very hot applications:**

Xi 05M MeltScope

Features:

- Small sized rugged camera with motorized focus
- Wide measurement range from 950 °C to 2450 °C without sub-ranges
- Highly dynamic CMOS detector with 396 x 300 pixels resolution
- Fast line scanning mode with 500 Hz
- Autonomous operation with auto hot spot finder and direct analog or alarm output
- Software with extensive analysis features and web server capability included



Technical Specifications

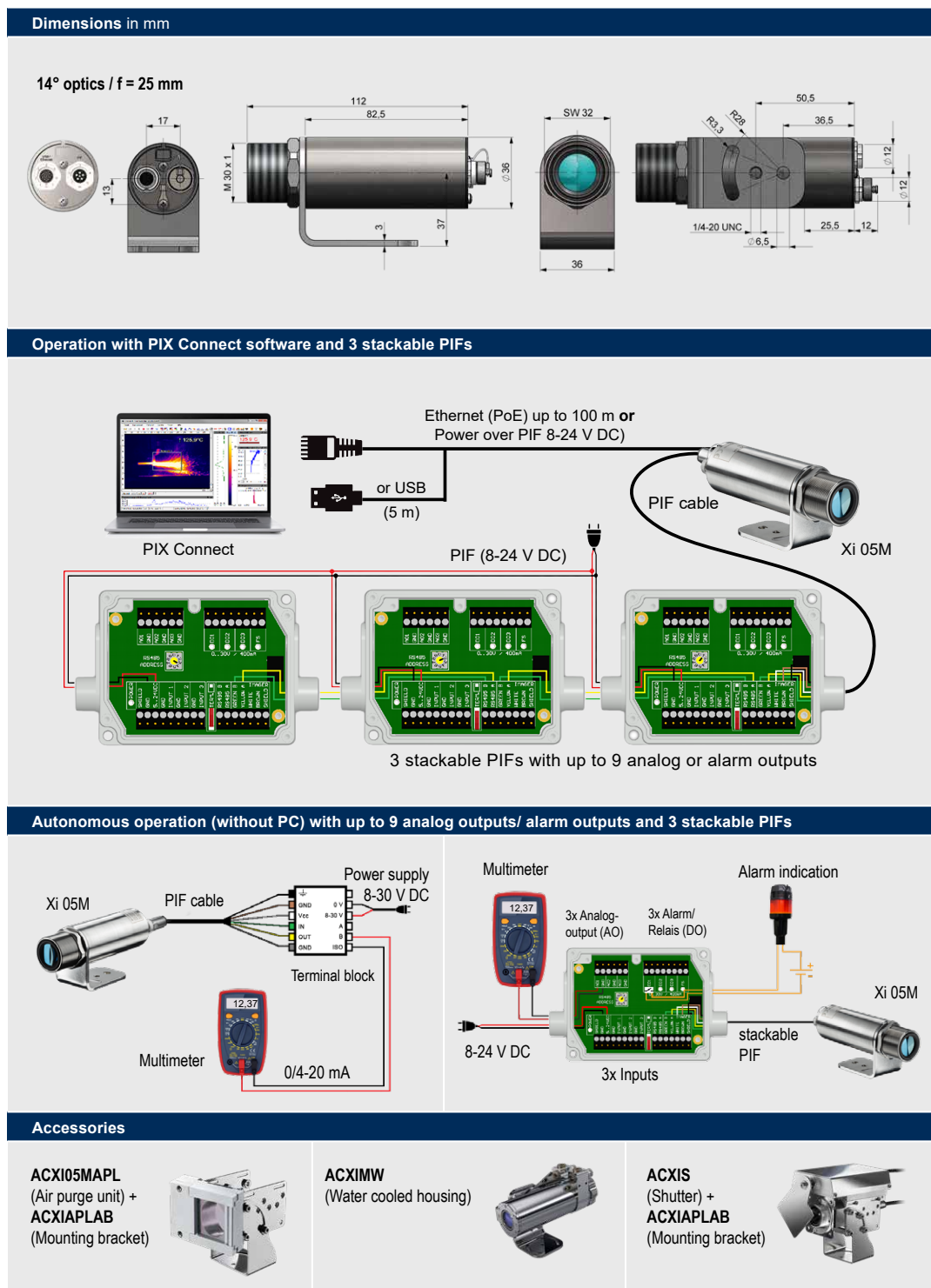
Optical resolution	396 x 300 pixels	
Detector	CMOS (15 µm pitch)	
Spectral range	500 – 540 nm	
Temperature ranges	25mm - Optics: 20Hz: 950 ... 2450 °C 500Hz: 1050 ... 2450 °C	
Optical resolution / Frame rate	Ethernet: 396 x 300 pixels @ 20 Hz 396 x 8 pixels @ 500 Hz USB: 132 x 100 pixels @ 20 Hz	autonomous operations: 132 x 100 pixels @ 20 Hz 396 x 1 pixels @ 500 Hz
Optics (FOV)	14° x 10° (f = 25 mm)	
Focus	Motorized focus	
Thermal sensitivity (NETD) ¹⁾	< 2,5 K (< 1800 °C) / < 4,5 K (> 1800 °C)	
Accuracy (at T _{Amb} = 23 ± 5 °C)	For object temperature < 2000 °C: ±1 % of reading for 20 Hz, 500Hz For object temperature > 2000 °C: ±2 % of reading for 20 Hz, 500Hz	
PC interface	Fast Ethernet / USB 2.0 / RS485	
Industrial network interface ²⁾	EtherNet/IP Ethernet TCP Modbus TCP Profinet	
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 (standard), 5 m, 10 m, 20 m (up to 100 m) USB: 1 m, 3 m, 5 m	
Ambient temperature	5 °C ... 50 °C	
Enclosure (size / rating)	Ø 36 mm x 112 – 126.5 mm, depending on lens (M30x1 thread) / IP 67 (NEMA 4)	
Weight (without mounting bracket)	270 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	8 - 30 V DC / PoE / USB	
Scope of supply	• Process imager Xi 05M • Ethernet / PoE cable (1 m) / USB cable (1 m) • IN/ OUT cable incl. terminal block (1 m) • Mounting bracket with tripod thread, mounting nut • Software package optris PIX Connect	

¹⁾ Specified NETD value applies to all frequencies

²⁾ Optional

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Specifications are subject to change without notice · Xi 05M MeltScope DS-EN2025-06-B