



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

Xi 05M MeltScope

Features:

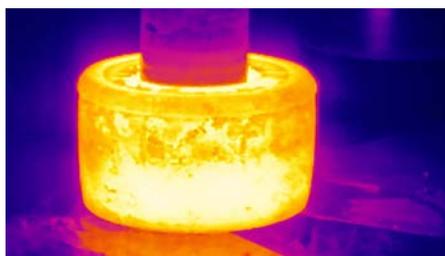
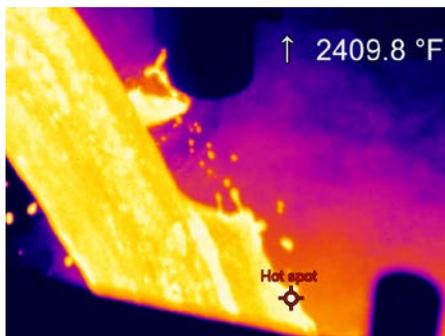
- Small sized rugged camera with motorized focus
- Wide measurement range from 950 °C to 2450 °C (1742 °F to 4442 °F) without sub-ranges
- Highly dynamic CMOS detector with 396 x 300 pixels resolution
- Fast line scanning mode with 500 Hz
- Autonomous operation with auto hot spot finder and direct analog 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 (1742 ... 4442°F) 500Hz: 1050 ... 2450°C (1922 ... 4442°F)
Optical resolution / Frame rate	Ethernet: 396 x 300 pixels @ 20 Hz 396 x 8 pixels @ 500 Hz USB: 132 x 100 pixels @ 20Hz	autonomous operations: 132 x 100 pixels @ 20 Hz 396 x 1 pixels @ 500 Hz
Optics (FOV)	14° x 10° (f = 0.98 in)	
Focus	Motorized focus	
Optical resolution (D:S)	400:1 (14° optics)	
Thermal sensitivity (NETD) ¹⁾	< 2 K (< 900 °C [1652 °F]) / < 4 K (< 1400 °C [2552 °F])	
Accuracy (at T _{Amb} = 23 ±5°C [73.4 ±41 °F])	For object temperature < 1400 °C (2552 °F): ±1 % of reading for 20 Hz, 500Hz For object temperature < 1600 °C (2912 °F): ±2 % of reading for 20 Hz, 500Hz	
PC interface	Fast Ethernet / USB 2.0 / RS485	
Industrial Network Interface	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 (relays) / 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 (41 °F ... 122 °F)	
Enclosure (size / rating)	Ø 36 mm x 112 – 126.5 mm (1.4 in x 4.4 – 5.0 in), depending on lens (M30x1 thread) / IP 67 (NEMA 4)	
Weight (without mounting bracket)	270 g (9.5 oz), 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	<ul style="list-style-type: none"> • Process imager Xi 05M • 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 	

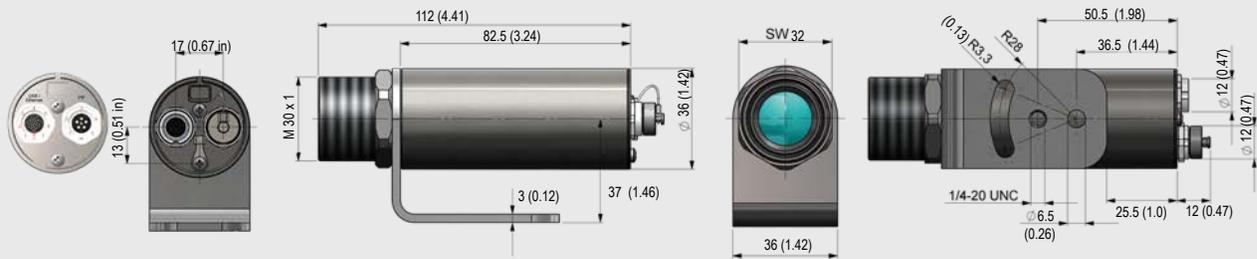
¹⁾ Specified NETD value applies to all frequencies



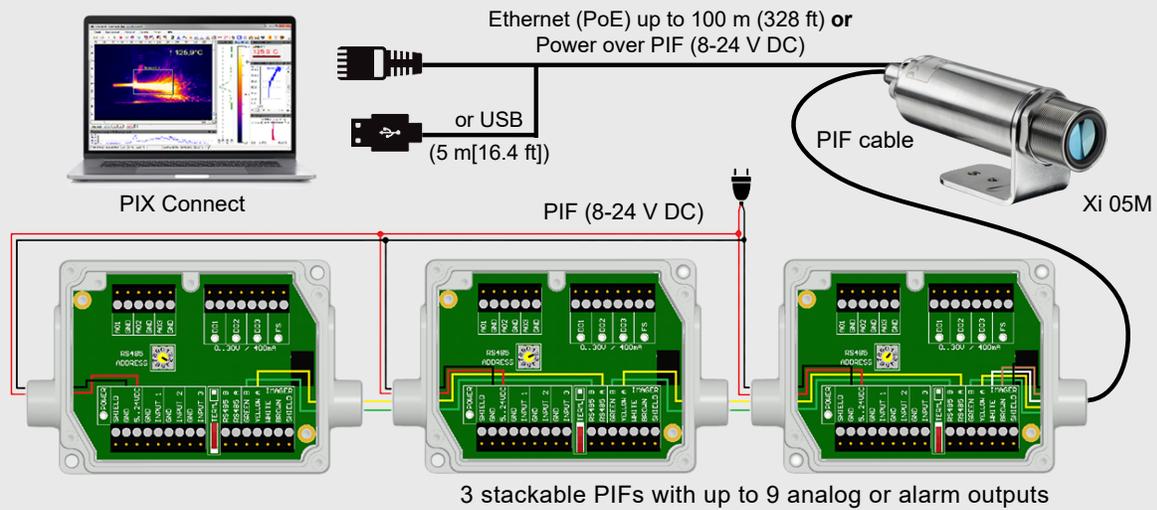
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Dimensions in mm (in)

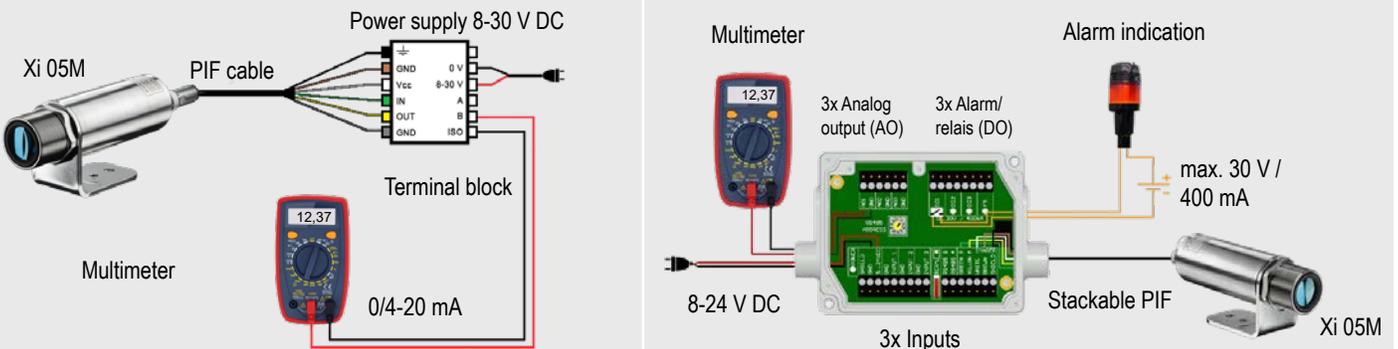
14° optics / f = 25 mm



Operation with PIX Connect software and 3 stackable PIFs



Autonomous operation (without PC) with up to 9 analog outputs/ alarm outputs and 3 stackable PIFs



Accessories

ACXI1MAPL
(Air purge unit) +
ACXIAPLAB
(Mounting bracket)



ACXIMW
(Water cooled housing)



ACXIS
(Shutter) +
ACXIAPLAB
(Mounting bracket)

