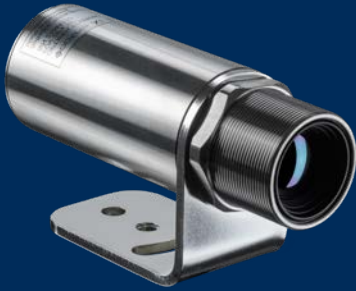


**Compact spot finder
IR camera for measurement
through flames from
475 °C up to 1700 °C**



Features:

- Industrial imager with 320 x 240 pixels
- Accurate temperature measurement through flames in the range from 475 °C to 1700 °C 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

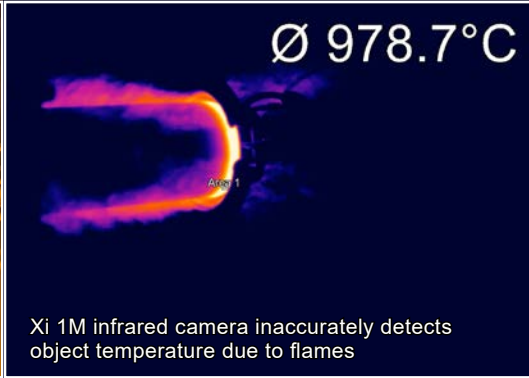
Technical Specifications

Optical resolution	320 x 240 pixels
Detector	FPA, uncooled (12 µm pitch)
Spectral range	3.9 µm
Temperature range	475 ... 1700 °C
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) 17° x 13° (f = 13 mm) 29° x 21° (f = 8 mm) 41° x 30° (f = 6 mm)
Focus	Manual motor focus
Optical resolution (D:S)	550:1 (11° optics)
Thermal sensitivity (NETD)	1 K @ 600 °C
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 (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	0 °C ... 50 °C
Enclosure (size / rating)	Ø 36 mm x 100 mm (M30x1 thread) / IP 67 (NEMA 4)
Weight (without mounting bracket)	216 - 220 g, 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	• Process imager Xi 320 MT • 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

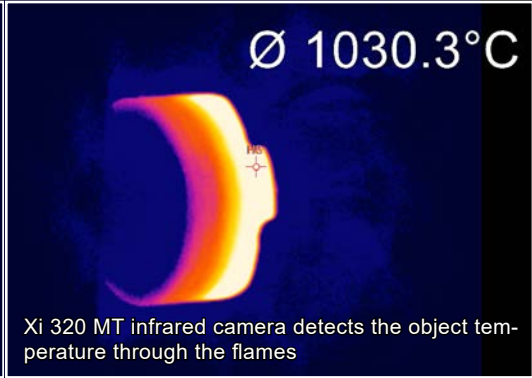
¹⁾ For more details see operator's manual

optris Xi 320 MT



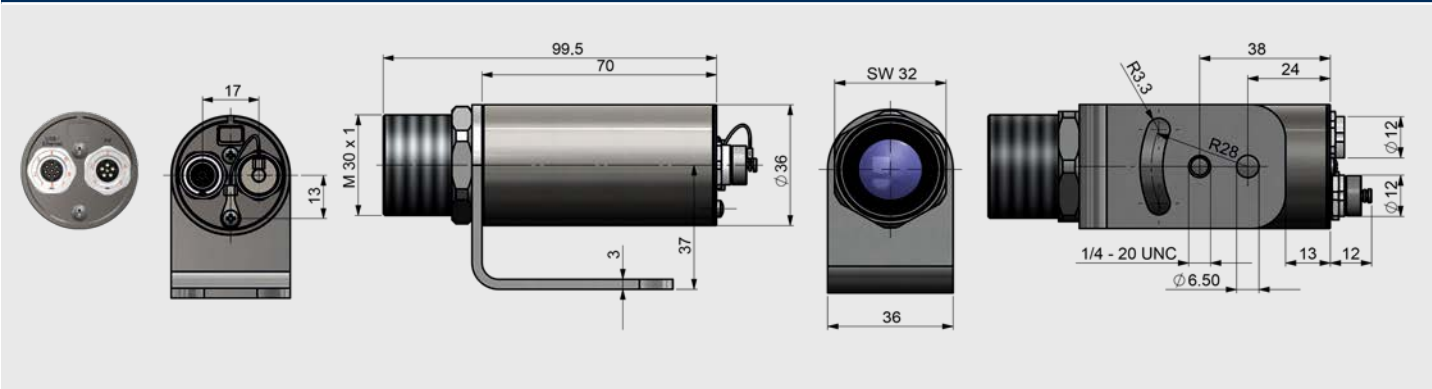


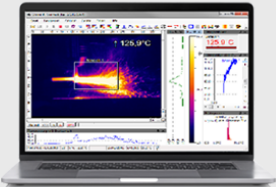
Xi 1M infrared camera inaccurately detects object temperature due to flames



Xi 320 MT infrared camera detects the object temperature through the flames

Dimensions in mm





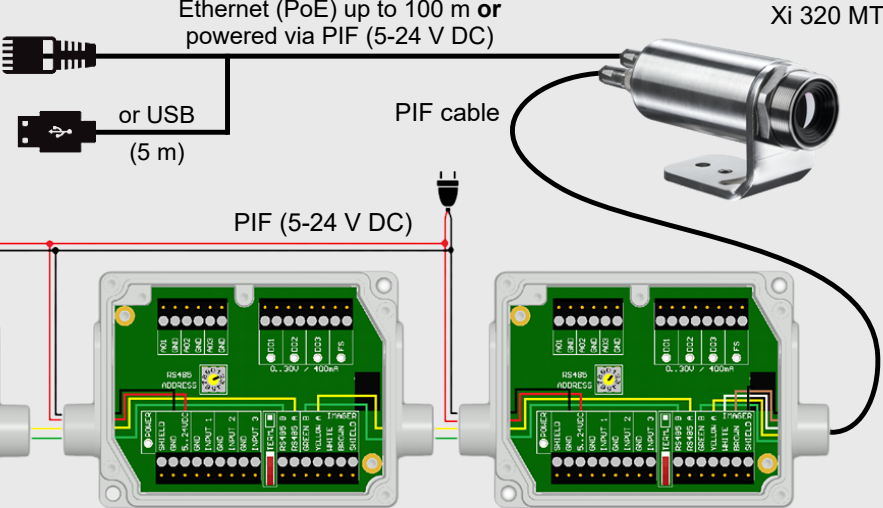
PIX Connect

Ethernet (PoE) up to 100 m or powered via PIF (5-24 V DC)

or USB (5 m)

PIF cable

Xi 320 MT



3 stackable PIFs with up to 9 analog or alarm outputs

Accessories

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



ACXIMW (Water cooled housing)



ACXISCBxx* (Shutter) + ACXIAPLAB (Mounting bracket)



*) xx = for different cable lengths