

**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*

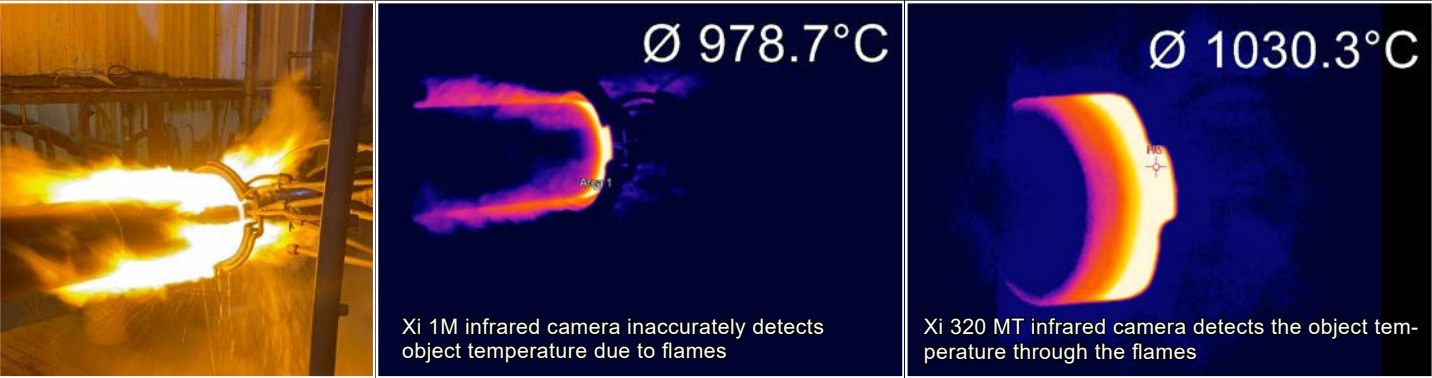
Technical Specifications

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

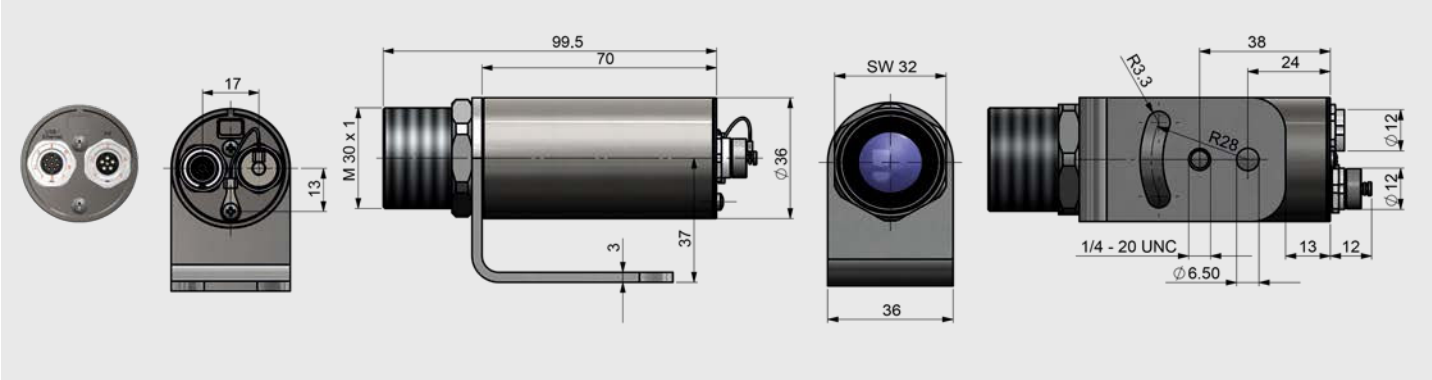
¹⁾ For more details see operator's manual

optris Xi 320 MT

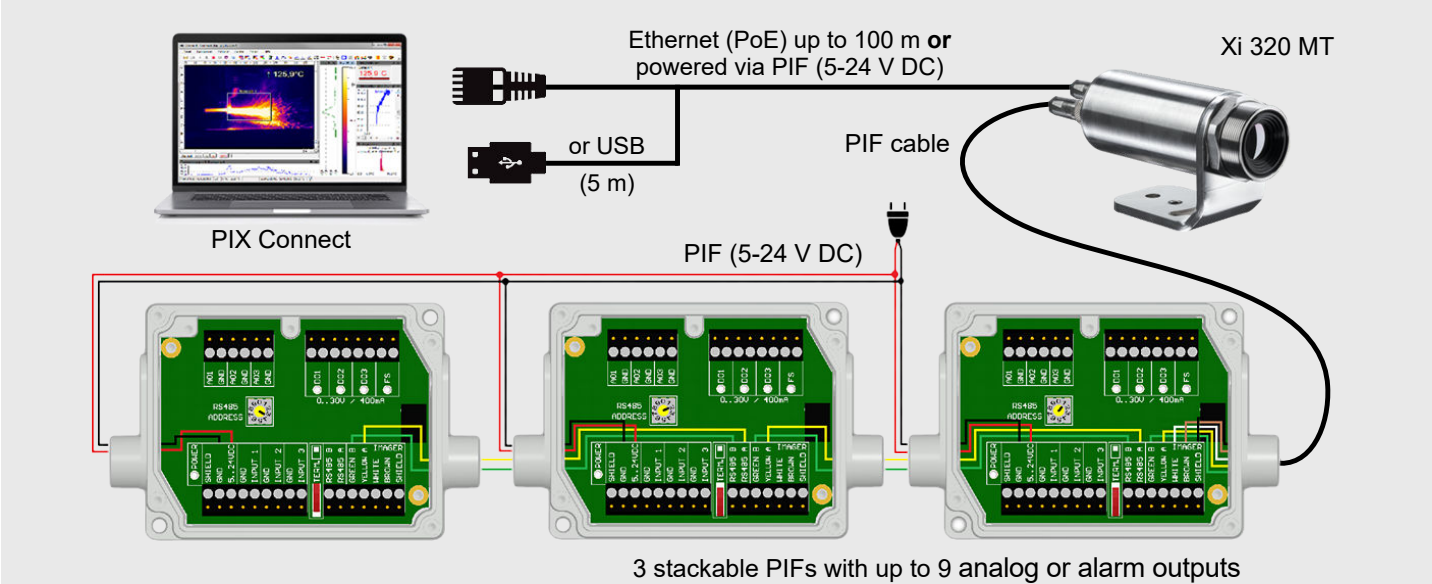
Practical example - Measuring object temperature using flames



Dimensions in mm



Operation with PIX Connect software and 3 stackable PIFs



Accessories

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



ACXIMW (Water cooled housing)



ACXISCBxx* (Shutter) + **ACXIAPLAB** (Mounting bracket)



*) xx = for different cable lengths