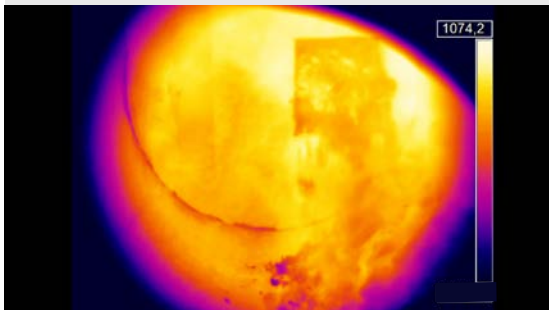


Furnace Package for Thermal Monitoring under harsh conditions



Features:

- Dedicated product package for reliable 24/7 operation under harsh industrial conditions
- Water cooling, Laminar air purge and Shutter system included
- Usable in ambient temperatures up to 250 °C
- Process interface for easy integration in control systems
- Environmental rating IP67
- IR camera with 396 x 300 px with Ethernet (PoE) interface
- Pre-assembled and ready to use

Specifications Furnace Package

Environmental rating	IP 67
Operating Temperature range	0 °C - 250 °C (with water cooling)
Protective window	Borofloat, AR coated
Water / Air connection	R1/8 IG / NW 7.2 quick coupling
Flow rate / pressure	1-5 l/min (water) / 250 l/min (air) at max. 8 bar
Size	220 mm x 200 mm x 140 mm
Weight	2600 g
Material	Stainless steel / Anodized aluminum
Process Interface (PIF)	Standard or Industrial Process Interface, stackable up to 3 PIFs
Cable length	5 m or 10 m high temperature (250 °C max.) cables

Specifications IR camera Xi 1M

Optical resolution	396 x 300 pixels
Spectral range	0.85 µm – 1.1 µm
Frame rate	Full resolution: 20 Hz (Ethernet) Subframe mode: 20 Hz (USB, autonomous) Linescan: 500 Hz (Ethernet, autonomous)
Temperature range	525 °C – 1800 °C 450 °C – 1800 °C
Accuracy	For object temperature < 1400 °C: ±1 % of reading For object temperature < 1600 °C: ±2 % of reading
Thermal Sensitivity NETD	< 2 K (< 900 °C) / < 4 K (< 1400 °C)
Optics (FOV) / D:S	28° x 21° (f = 12 mm) / 195:1 14° x 10° (f = 25 mm) / 401:1 7° x 5° (f = 50 mm) SF / 806:1 7° x 5° (f = 50 mm) CF / 830:1
Interface	Ethernet (100 Mbit/s) (USB 2.0)
Supported Protocols	USB, Ethernet (Static), RS485, Serial Communication Optional: EtherNet/IP, Profinet, Modbus TCP
Size	Ø 36 mm x 112-127 mm (depending on lens), thread: M30x1
Material	Stainless steel
Power Supply	Power over Ethernet or 8-30 VDC
Power Consumption	max. 2.5 W

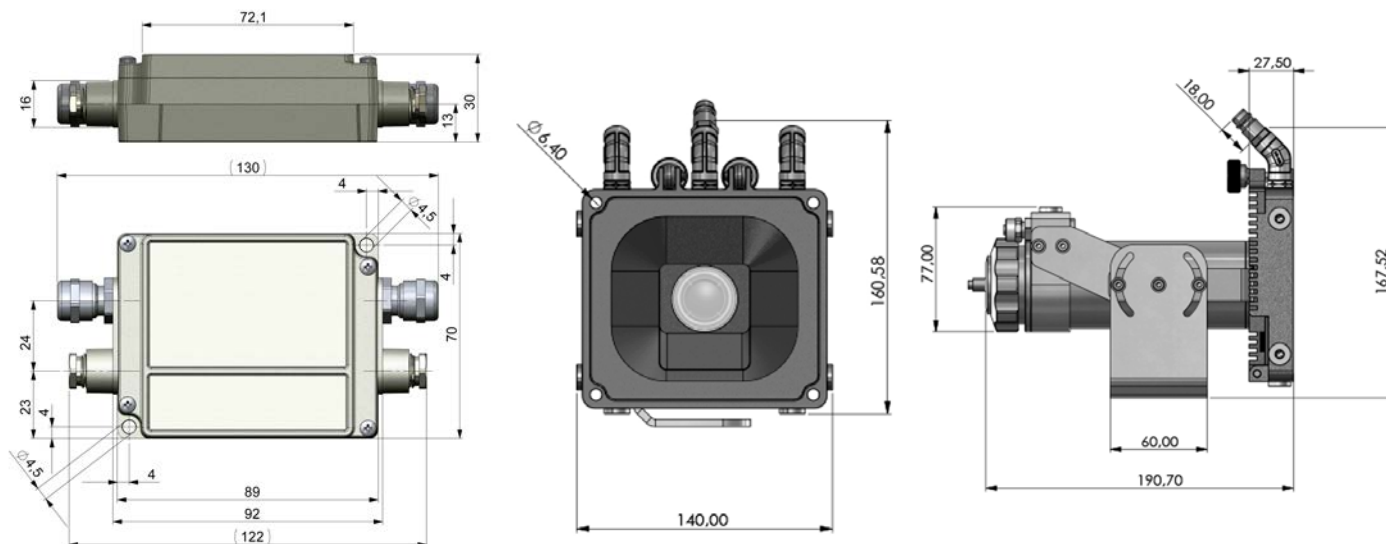
Scope of Supply

- Xi 1M infrared imager
- Water cooled housing
- Air purge flange laminar incl. protective window
- Ethernet or PoE cable
- I/O cable or Industrial PIF
- All cables in 5 m or 10 m length

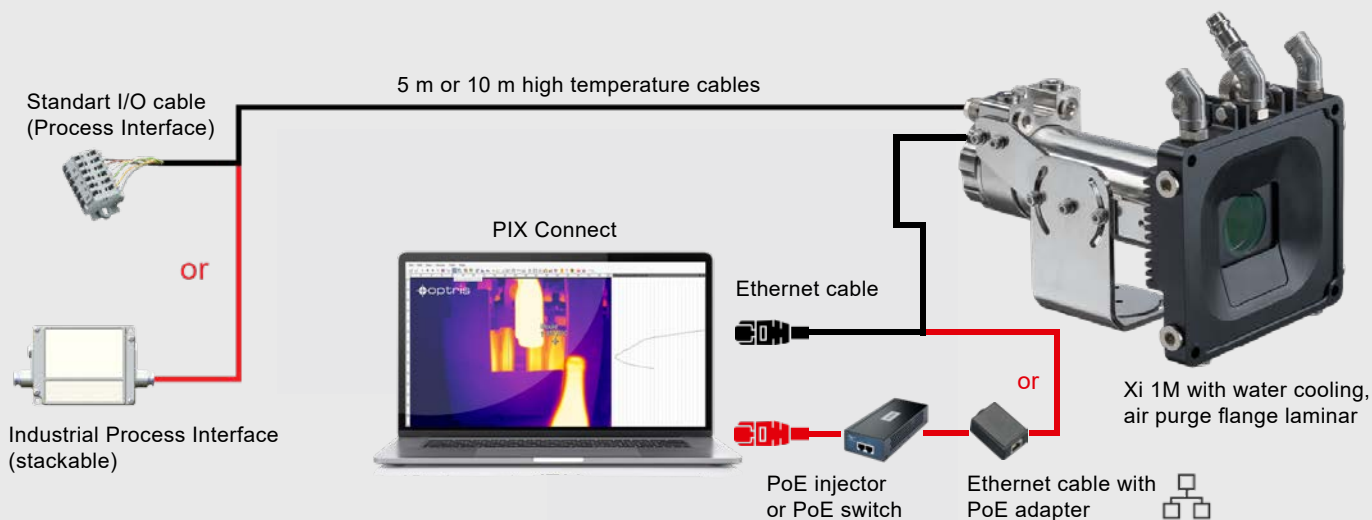
optris Xi 1M FP

TECHNICAL DATA

Dimensions in mm



Components and Variations



More information:

<https://optris.com/products/category/infrared-application-packages/furnace-package/>



Scope of Supply



How the package will be delivered

