

VI Probe - PI

The PI Probe is a high-resolution inline endoscope for various industrial applications in laboratory, pilot scale or production environments.



This probe can be directly inserted into a running process to retrieve particle size and shape information via image analysis. The probe can be equipped with a U-Light transmission tube, as well as cooling and purging tubes to increase its applicability range.

There are also numerous process connectors available, such as flanges, compression fittings, and (for probes with non-replaceable protection tubes, 320 mm length and 12 mm diameter) the Knick Ceramat W155 retractable fitting.



Complete your system:

- Reflectors for transfection
- Purging & cooling tube
- U-Light transmission tube
- Exchangeable protection tube
- ATEX ex-d/p version available



Parameter	Specification
Particle Size Range	2 – 300 µm
Field of View (diag.)	710 µm
Dimensions & Weights	
Housing	Length: 240 mm Diameter: 72 mm
Replaceable Protection Tube	Immersible length: 290 mm* Tube diameter: 19.05 mm (3/4")**
Weight	4.5 kg
Materials	
Housing	1.4404 (316L)
Protection Tube	1.4404 (316L)***
Probe Tip Window	Sapphire
Solder	Au/Sn 80/20
Cable	Adaptaflex® cable protection, type SPLHC, thermo plastic rubber covered galvanised steel, flexible, liquid resistant, IP67, black
Technical Data	
Permissible Process Temperature	-10 – 130°C (temperatures up to 450°C achievable with cooling tube accessory)
Permissible Ambient Temperature	0 – 40°C
Permissible Process Pressure	0.01 – 10 bar (higher pressure ratings up to 320 bar on request)
Camera	5.1 MP Machine Vision Camera with GigE Interface, 15 fps, color camera optional
Power Supply	141 VA (50-60 Hz)
Cable	Standard length: 2.5 m Diameter: 27 mm Bending Radius: 190 mm
Approvals	
Protection	IP 65
Compliance	RoHS conform according to 2011/65/EU

* Longer and shorter probes available on request.

** Available diameters on request: 12 mm, 12.7 mm (1/2").

*** The following materials are also available on request: 1.4571 (316Ti), 2.4602 (C22 Hastelloy), 3.7165 (Titanium).

so:mat

Make every detail count