

VI Probe - PI


The PI Probe is a high-resolution inline endoscope for various industrial applications in laboratory 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 cooling and purging tubes to increase its applicability range. There are also numerous process connectors available, such as flanges, compression fittings, and the Knick Ceramat W155 retractable fitting.



Complete your system:

- Reflectors for transfection
- Purging & cooling tube
- U-Light transmission tube
- Exchangeable protection tube
- Ceramat WA155 compatible
- ATEX 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
Protection Tube	Wetted length: 320 mm* Wetted tube diameter: 12 mm
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; 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
Power Supply	141 VA (50-60 Hz)
Cable	Standard length: 2.5 m Diameter: 27 mm Bending Radius: 20 cm
Approvals	
Protection	IP 65
Compliance	RoHS conform according to 2011/65/EU

* Longer probes available on request.

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