

# VI Probe - Ma

The Ma Probe is an achromatic inline endoscope with a very narrow depth of field for various 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
- Ceramat WA155 compatible
- ATEX ex-p version available

Parameter	Specification
Particle Size Range	1.5 – 250 µm
Field of View (diag.)	580 µm
<b>Dimensions &amp; Weights</b>	
Housing	Length: 240 mm Diameter: 72 mm
Protection Tube	Wetted length: 320 mm* Wetted tube diameter: 12 mm
Weight	4.5 kg
<b>Materials</b>	
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
<b>Technical Data</b>	
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
<b>Approvals</b>	
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)



Make every detail count