

MiningScope

The MiningScope is a specialized probe designed for a broad variety of mining applications. With its unique design, it can withstand the harsh and abrasive conditions in mining slurries. The MiningScope is mainly designed for production environments.



This probe can be directly inserted into a running process to retrieve particle size and shape information in different mining slurries, e.g. downstream of ball mills, SAG mills, hydrocyclones, and flotation tanks. The advanced image analysis can distinguish different particles types and can differentiate bubbles from particles.

The probe is equipped with very robust, easily replaceable ceramic tip. The dedicated process connector facilitates the maintenance procedure. A sun shield is available for outdoor usage.



Complete your system:

- Exchangeable protection tube
- Exchangeable ceramic tip
- Sun shield
- Ball or knife gate valve
- Insertion guide rod system

Parameter	Specification
Particle Size Range	1 – 1,200 µm
Field of View (diag.)	750 µm or 2,500 µm
Dimensions & Weights	
Housing	Length: 240 mm Diameter: 72 mm
Replaceable Protection Tube	Immersible length: 320 mm Tube diameter: 38.1 mm (1.5")
Weight	8 kg
Materials	
Housing	1.4404 (316L)
Protection Tube	1.4404 (316L) with TiN coating
Probe Tip and window	Tip: Ceramic (proprietary Yttrium stabilized Zirconia); window: epoxy glued artificial optical sapphire
Cable	Adaptaflex® cable protection, type SPLHC, thermoplastic rubber covered galvanized steel, flexible, liquid resistant, IP67, black
Technical Data	
Permissible Process Temperature	10 – 130°C
Permissible Ambient Temperature	0 – 50°C
Permissible Process Pressure	0.01 – 10 bar (higher pressure ratings on request)
Camera	5.1 MP Machine Vision Camera with GigE Interface, 15 fps, 7 fps (color)
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