

EOD IV

Multi Swing Prism Rigid Endoscope (Borescope)



Features

- Working length from 115mm to 945mm
- Probe diameter 6mm, 8mm & 9mm
- Adjustable direction of view -7° to $+133^{\circ}$
- 370° scope rotation for orbital view
- Tilttable 140° multi swing prism
- Single hand rotation control
- Optimised distortion free optics for outstanding quality
- Ergonomic detachable handpiece
- Image focussing and palpable orientation
- Miniature 3W LED light source

Applications

- Remote visual inspection (RVI)
- Research & development
- Aircraft and ship inspection & maintenance
- Turbine blade and wave guide inspection
- UV curing and crack detection (NDT)
- Examination of internal structures without teardown, or for "machine vision" applications
- Engineer search teams, inspection of hazardous areas



The EOD IV Multi Swing Prism Rigid Endoscope (Borescope) is designed for the observation of inside car door panels, internal cavities, castings, machinery, engines and other hard to reach areas which cannot be viewed from the outside or with direct line of sight.

Multi Swing Prism Endoscopes (Borescopes) are highly developed inspection devices, assembled from highly precise optical and mechanical parts. Design, construction and special manufacturing make them suitable for professional use in daily rough industrial applications. By means of Multi Swing Prism an individually adjustable direction of view is provided. This allows prograde (forward) or retrograde (backward) view during the inspection without changing the scope.

Every Multi Swing Prism Rigid Endoscope (Borescope) incorporates a fine focusing control allowing adjustment of working distance from practically zero to infinity regardless of the objective employed. The Multi Swing Prism Rigid Endoscope (Borescope) can be supplied in different lengths and different diameters.

The construction and high quality materials guarantee a long lifetime. The EOD IV Multi Swing Prism Rigid Endoscope (Borescope) provides low-maintenance operation and easy handling is sustained with the ergonomic grip.

Technology

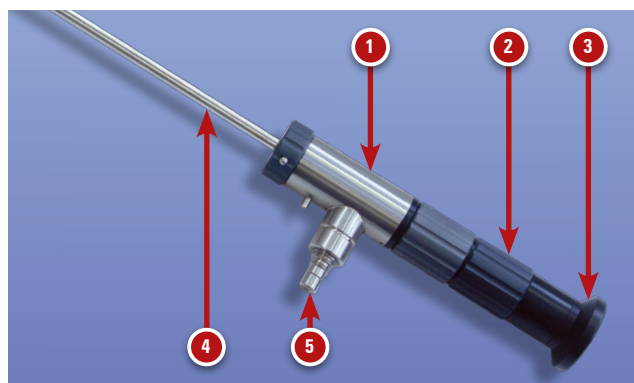
For every Multi Swing Prism-type special lens-systems were calculated. The results are optimal optical data and best image quality due to achromatic- (from 8.0mm) or mixed systems (6.0mm). The focusing will be achieved by an exactly and easily moving focusing ring. ■

Technical Specifications

Diameter	8mm (6.0, 9.0mm optional)
Length	325mm (115, 175, 185, 205, 245, 255, 305, 315, 385, 395, 405, 455, 465, 505, 605, 705, 945mm (available upon request)
FOV (Field of View)	45°
DOV (Direction of View)	-7° to + 133°
Rotation (orbital view)	370°
Tiltable	140° multi swing prism
Eyepiece	Focusable 32mm standard DIN
Construction	Stainless steel
Environmental Parameters	
Air temperature of operation	-20°C to +50°C
Pressure resistance in air	to 2 bar
Relative humidity	non-condensing to 95% at 40°C
Liquids	Water, NaCl 5%, Alcohol 70%, Gasoline, Diesel
Light Source	
Voltage input	6V (4x 1.5V AAA Batteries)
Lamp type	3W LED
AVG lifetime	5000h
Operating/storage temperature	-20°C to +45°C
Weight	330g
Case	
Dimensions	1000(W)x290(H)x110(D)mm
Weight	2.5Kg (case only)

Legend:

- 1: Body**
- 2: Focus Ring**
- 3: Removable Threaded Eyepiece**
- 4: Tube**
- 5: Mini Torch Connector**



Product Codes

EOD IV Multi Swing Prism Rigid Endoscope (Borescope) - Full System

3-299-102 EOD IV Multi Swing Prism Rigid Endoscope (Borescope) with rotational scanning (340°), 140° multi swing prism and focusing eyepiece. Diameter 8mm, Length 325mm, field of view 45°, direction of view -7° to +133°. 3W LED light source (handle), voltage input: 6V (4x AAA Alkaline Battery), AVG lifetime : 5000h all housed in carrying case

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