

EOD V Flexible Endoscope (Fiberscope) Search Kit



Features

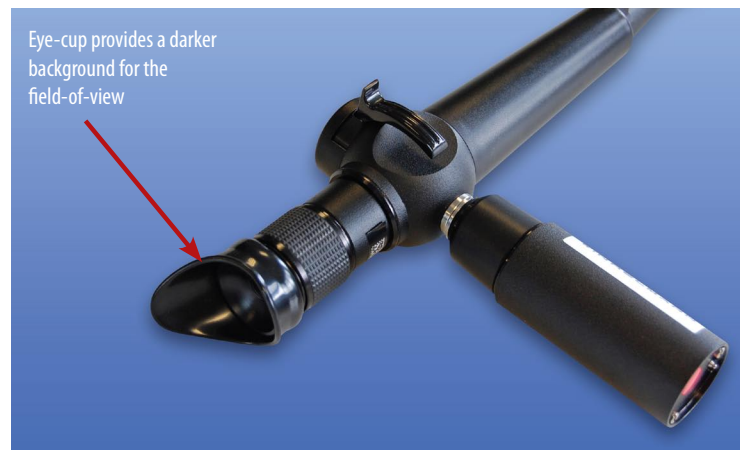
- Working length from 400mm to 2700mm
- 2-way tip articulation in 2.4mm, 3.5mm, 4mm & 6mm diameter
- Excellent light transmission
- 90° side view tip adapter (optional)
- Clever lever controls to allow real one-handed operation
- Sensitive zero-point of the articulation
- Liquid tight probe up to 1 bar
- Tungsten braid outer covering for tough industrial use
- Miniature 3W LED light source



Applications

- Remote visual inspection
- 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

Eye-cup provides a darker background for the field-of-view



The EOD V Flexible Endoscope (Fiberscope) is designed and especially suited for use in small inspection areas e.g. drill holes, injection valves, internal cavities, castings, engines or turbine blades.

All EOD V Flexible Endoscopes (Fiberscopes) are equipped with a 32mm standard DIN eyepiece that can be focused. The visible marks in the eyepiece can be used for orientation and allow safe and accurate navigation within the inspection object. Besides the excellent direct-view feature, the interchangeable 90° side view tip adapter offers new examination options.

The ergonomic hand piece allows right and left handed people a precise, real one-handed operation. Due to the special mechanics there are only minimal hand movements needed by the operator. Every contact made with the inspection item at the probe head are immediately realized and will be conducted to the zero-position of the articulation.

The articulation section is very bendable and in the area of the probe head of the flexible endoscope (fiberscope) the movement is very precise and the articulation is maximum. This is very important when using the flexible endoscope (fiberscope) in applications when guiding through tight radiuses. The control is permanently limited; this also extends the lifetime of the product.

Technology

The Flexible Endoscope (Fiberscope) contains an optical image guide made of highly flexible, thin and parallel single fibers. A focusable ocular adjusts the optic system to the visual acuity of the viewer. Additional to the direct view objective, a side view tip adapter can be provided.

The Flexible Endoscope (Fiberscope) is available in different variants regarding diameters of probes and working lengths. ■

Technical Specifications

Diameter	6mm (2.4, 3.5, 4.0mm optional)	
Length	1000mm (400, 700, 1300, 1500, 2000, 2700mm available upon request)	
Articulation	2-way ($\pm 120^\circ$ up/down)	
FOV (Field of View)	60° (2.4mm-45°; 3.5/4.0mm-50°)	
DOV (Direction of View)	0° (90° with optional side view tip adapter)	
Pixel	12000 (2.4mm-6000; 3.5mm-8000; 4.0mm-11500)	
Insertion Tube Sheathing	Tungsten Braid	
Min. radius of the flexible body bend	45mm (6mm diameter)	
Environmental Parameters		
Flexible insertion tube & articulating section:		
Environmental parameters	min.	max.
Air temperature of operation	-10°C	+80°C
Water temperature of operation	0°C	+30°C
Range of pressure in air	1 at	1.3 at
Range of pressure in water	1 at	1.3 at
flexible portion is stable in a water solution of 5% NaCl		
The flexible Portion is made according to the protection class IP68		
Housing:		
Environmental parameters	min.	max.
Air operating temperature	-10 °C	+50 °C
Range of pressure in air	1at	1.3 at
Splash proofed		
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	

Product Codes

EOD V Flexible Endoscope Search Kit – Full System

3-299-083	EOD V Flexible Endoscope (Fiberscope) Search Kit with focusing eyepiece, Diameter: 6mm, Length: 1000mm with 2-way tip articulation (2x120°) featuring single hand operation lever control, with built in objective forward view (0°) with (60°) field of view. Outer covering: tungsten braid sheathing. Water and petrol resistant. 3W LED Light Handle, voltage input: 6V (4x AAA Alkaline Battery), AVG Lifetime: 5000h
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EOD V Flexible Endoscope Search Kit – Upgrades

3-299-091	Camera adapter for 6mm Endoscope (Fiberscope)
3-299-096	Camera adapter for 4mm Endoscope (Fiberscope)
3-299-141	90° side view tip adapter for 6mm Endoscope (Fiberscope)
3-299-142	90° side view tip adapter for 4mm Endoscope (Fiberscope)

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