

# EOD IV

## Rigid Endoscope Search Kit



### FEATURES

- Optimised distortion free optics for outstanding quality
- Ergonomic all metal stainless steel construction and detachable handgrip
- Rotational scanning 340° on side viewing models
- Diameters from 2.8mm to 15mm
- Lengths from 120mm to 3295mm
- Digital image capture (requires optional adapter & SX600 digital camera)
- Temperature resistant to 150°C and pressure resistant to 3 bars
- Resistant to petrol, water, fuels and machine oils

### APPLICATIONS

- Remote visual inspection (RVI)
- Research & development
- Aircraft and ship inspection and maintenance
- Turbine blade and wave guide inspection
- UV curing and crack detection (NDT)
- Examination of internal structures without teardown, or for 'machine vision' applications
- (EOD/IEDD) search, explosive and hazardous area inspection



The EOD IV Rigid Endoscope is designed for the observation of internal cavities and hard to reach areas in machinery and components such as turbines, castings, engines etc which cannot be viewed from the outside or with direct line of sight.

High grade stainless steel tubes are built up in a sandwich construction to achieve maximum stability. Each component in the system is temperature resistant to 150°C.

Every rigid endoscope incorporates a fine focusing control allowing adjustment of working distance from practically zero to infinity regardless of the objective employed. Smaller diameter rigid endoscopes incorporate a light amplification cone to maximize transmission.

All instruments from 2.8mm diameter have orbital scanning on side viewing models which enables 370° rotation of the insertion probe. The EOD IV Rigid Endoscope can be supplied in different lengths and different diameters. The working length, diameter should be based upon individual requirements with consideration of the geometric parameters of the article or object to be inspected, viewed or checked.

## TECHNOLOGY

Our computer based lens designs are being constantly updated to allow the use of the latest optical materials. Anti-reflection coatings are optimised for easy viewing with the eye and enhanced results using the optional special endoscope adapter & Ricoh SX600 Digital Camera. ■

## TECHNICAL SPECIFICATIONS

Diameter	8mm (2.8, 4.0, 5.8, 10.0, 12.0, 15.0mm optional)
Length	636mm (others available upon request)
Forward Viewing	0°
Field of View	100° (8mm diameter)
Construction	Main endoscope is stainless steel, handgrip is anodised aluminium
Rotational scanning	340° (allows complete all round viewing without moving the head section)
Eyepiece	Standard 32mm eyecup with focusing control
Depth of field	1mm to infinity
<b>Environmental Parameters – Insertion Tube</b>	
Air temperature of operation	-10°C to +150°C
Water temperature of operation	0°C to +30°C
Range of pressure in air	3 bars
Range of pressure in water	3 bars
Flexible portion is stable in a water solution of	5% NaCl
<b>Head Section (eyepiece)</b>	
Air temperature of operation	-10°C to +50°C
Range of pressure in air	3 bars
Water resistant	to light splashes or drops hitting the device

Optional SX600 Digital Camera with optional endoscope adapter



## PRODUCT CODES

### EOD IV Rigid Endoscope Search Kit - Full Systems

**3-299-086** EOD IV Rigid Endoscope with rotational scanning (340°) and focusing eyepiece, Diameter 8mm. Length 636mm, Forward view (0°) with 100° field of view

### EOD IV Rigid Endoscope Search Kit - Accessories & Upgrades

**3-299-084** 2x Endoscope Entry Tools EET.0 straight angle tool ideal for lifting floor boards & EET.90 right angle tool ideal for window/seal entry of vehicle car doors

**3-299-087** 120° Angled Eyepiece adapter, length of branch 120mm

**3-299-091** Endoscope Adapter for Ricoh Digital Camera SX600 with 37mm filter thread. With quick clutch adapter fitting for direct connection to 32mm endoscope eyepieces.

**3-299-092** Ricoh SX600 Digital Camera, Lightweight, water, dust and shock resistant ideal for industrial and outdoor use. 10 Mega Pixels, 5x Optical Zoom, ISO 3200 Low Light Sensitivity, 2.7" LCD screen, Flash range of 10m, battery good for 360 shots.

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