

EOD VII Explorer Videoscope System



FEATURES

- Fully mobile video system
- Extremely high illumination
- Video files in AVI format (320 x 240), still images in JPEG format (640 x 480)
- Excellent flexibility due to the probe tip which bends in four directions
- Document your inspection with one-touch recording of photos or videos
- Brilliant crystal clear photos
- 10.4" TFT high resolution monitor
- User controls: white balance, Gain control, window-function, image zoom & image rotate

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 VII Explorer Videoscope System can perform inspections easily and quickly. This modular and mobile system, with its robust and shockproof design, opens entirely new inspection possibilities. The large and fully adjustable TFT monitor delivers crystal clear, true colour images. Inspection results can be documented in video or still image format on a SD card, which is then easily transferable.

The EOD VII Explorer is a fully mobile videoscope system featuring four-way articulation and length up to 7 meters, providing a powerful remote vision tool for aircraft engine inspection. It can capture still images and video sequences. It features a 10.4" TFT/LCD color monitor, fully integrated 50-watt metal halide light source, interchangeable objective tips and videoscope lengths up to 7 meters.

The high resolution flexible fiberscope is designed to withstand tough industrial use, being built up with at least four thin protective coverings. The final covering is watertight PVC (2.9mm diameter) reinforced PUR (3.8mm diameter) or fine braid teflon impregnated stainless steel (diameter 5.5mm and up).

These instruments are used for remote visual inspection of plant and machinery without strip down and for a variety of security applications such as drug search. Interchangeable objectives allow the direction or field of view to be changed as required and sharp focus can be obtained by adjustment of the focus control.

TECHNOLOGY

Different resolution image bundles are used according to the particular diameter and length of the fiberscope supplied. Some fiberscopes employ quartz imaging fiber bundles with fiber size down to 3 microns which give superb resolution and brightness previously unobtainable with flexible instruments. Others employ high resolution glass fiber image bundles for maximum light transmission. Light is transmitted from a cold light source through optical fibers inside the instrument to the object being viewed. ■

TECHNICAL SPECIFICATIONS

Base Unit

Control Panel	White balance, GAIN (3 presets), window function (4 presets), zoom (1.5x, 2x, 3x), image rotation (0° & 180°)
Camera System	PAL or NTSC
Video Outputs	1x S-Video (Y/C), 1x Video (CVBS)
Digital Output	USB 2.0
Display	10.4" TFT, resolution: 640 (H) x 480 (V)
Media	SD memory card Record and view videos in AVI format (320 x 240) Record and view still images in JPEG format (640 x 480)
Light Source	50W metal halide illumination
Power Supply	100-250VAC, 50/60Hz or 12V battery operation for mobile use
Operating Temperature	0° up to +40°C
Dimensions (W x H x D)	305 x 140 x 305mm
Weight	Approx 7Kg

Battery Pack & Charger

Technology Battery	Lead-acid battery, maintenance-free and leak proof
Output Voltage	12 V, 7.0 Ah
Typical Operating Time	45 minutes, Charge Time 15 hours
Operating Temperature	-15°C up to +50°C
Weight with carrying bag	3.5Kg

Video Fiberscope

Diameter	8mm (5.5, 6.4, 10.8mm optional)
Length	3000mm (others available upon request)
Tip Deflection	4 Way
Forward Viewing	0°
Field of View	45° & 80° interchangeable (8mm diameter)

Environmental Parameters – Flexible Insertion Tube & Articulation section

Air temperature of operation	-10°C to +80°C
Water temperature of operation	0°C to +30°C
Range of pressure in air	1 to 1.3 atmospheres
Range of pressure in water	1 to 1.3 atmospheres
Flexible portion is stable in a water solution of	5% NaCl



PRODUCT CODES

EOD VII Explorer Videoscope - Full Systems

3-299-075

EOD VII Explorer Videoscope System with Fully mobile Video Workstation with built-in 50W metal halide illumination, 10.4" flip up TFT daylight viewable monitor, still and video recording onto SD card, control for white balance, image zoom and rotate. 12VDC or 100-250VAC. Video Fiberscope Diameter 8mm, Length 3000mm with 4-way tip angulation (4x120°) and Forward Viewing (0°) objective with 45° Field of View, Interchangeable Objective for 8mm Videoscope Forward view (0°) with 80° field of view, Rechargeable Compact Battery 12V Lead Acid Battery Pack complete with protection pouch and shoulder strap, charger and connecting leads (at time of order please specify PAL or NTSC).

For further information contact

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