

EOD VIII Tactical Videoscope System



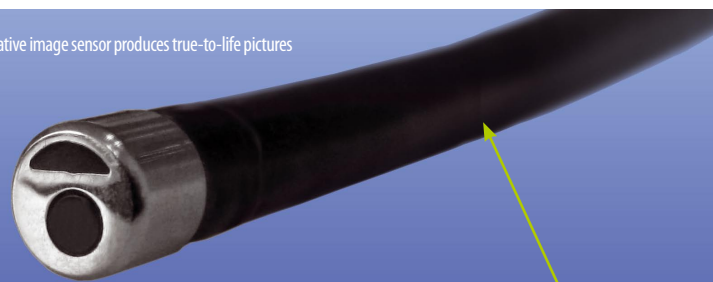
Features

- High-contrast, 6.35cm (2.5") colour display
- Image capturing and video recording (with optional frame grabber)
- Integrated high power LED light source
- Built-in lithium-polymer battery pack (approx 1.5h)
- One-hand operation, for left or right-handed
- Mechanical lever control of the probe tip (2-way control)
- Working length 600 to 1500mm
- Probe diameter 5.0mm
- Robust probe construction with PU coating
- Documentation of RVI results (with optional frame grabber)
- LED significantly more intense/homogeneous illumination
- Lightweight operating unit 640gr (1.41lb)

Applications

- Optical remote visual search and inspection
- Tactical search, special task forces
- Aircraft and ship inspection and maintenance
- Turbine blade and wave guide inspection
- UV curing and crack detection (NDT)
- Research & development
- Examination of internal structures without teardown, or for 'machine vision' applications

Innovative image sensor produces true-to-life pictures



Diameter 5.0mm

Technical Specifications

Operating Unit

Display size	Intergrated 6.35cm (2.5") TFT colour display (external optional)
Display resolution	234x160 pixels
Video interface	Composite video-out
Illumination	High-Power white light LED's with fiber optic light guides
Illumination control	3 Levels
Colour temperature	Approx. 5000K
Average lamp lifetime	Approx. ca. 5000h
Input voltage	12VDC, Consumption 1.3A
Battery power supply	Rechargeable Li-Polymer battery (up to 1.5h operating time)
Mains operation	12V AC adapter, 110V-240V / 50-60Hz
Housing	ABS plastic, alloy frame
System weight	640gr (1.41lb) incl. Probe
Dimensions	38x8x8cm (LxWxH)

Videoprobe

Diameter	5.0mm
Tip articulation	2-way
Articulation angle	+180° / -100°
Length	600mm (1000, 1500mm optional)
Jacket / Braid	PU-Jacket (Tungsten Braid on PU-Jacket optional)
Direction-of-view (DOV)	0°
Field-of-view (FOV)	90°
Image sensor	CMOS
Image sensor resolution	76,800 pixel

Operating Environment

Tip operating temperature	-10°C to +80°C (+14°F to 176°F)
Operation/storage temperature	-25°C to +45°C (-13°F to 115°F)
Relative humidity	95% max. – non condensing
Waterproof	1.0at bis 1.3at (H2O)
Liquid tight	Water, mineral and synthetic oils, gasoline, diesel

Frame-Grabber (optional)

Video-in	5-Pin
Video-out	USB 2.0 and composite video-out
Housing	ABS, alloy frame
Dimensions	115x53x30mm
Weight	140g (0.3lb)

Frame-Grabber System Requirements PC / laptop for software (optional)

Processor	Intel / AMD processor min. 500MHz
Memory	min. 512MB
Hard-drive	min. 30MB
Optical drives	CD or DVD Drive
USB interface	2.0
Operating system	min. Microsoft Windows 2000
Recommended screen resolution	min. 1024x768 Pixels

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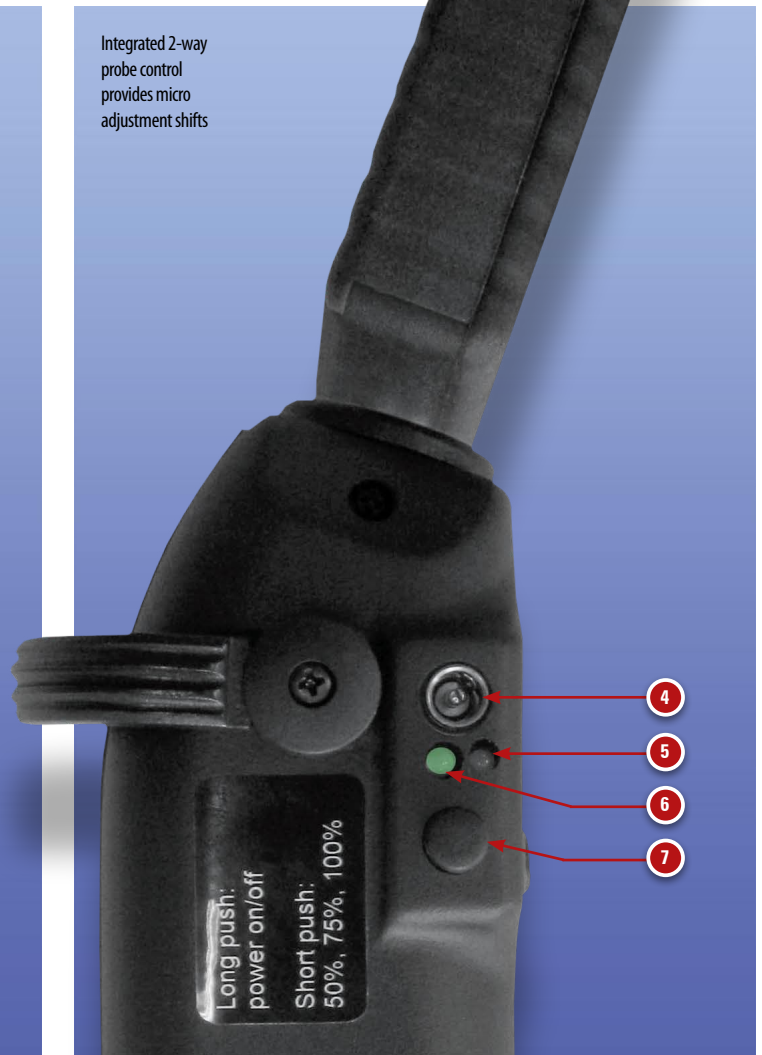
Legend:

- 1:** 6.35cm (2.5") TFT screen
- 2:** Integrated display
- 3:** Integrated probe control
- 4:** 12V input
- 5:** Power indicator
- 6:** Low battery indicator
- 7:** On/Off and light intensity control

Integrated light source with 3-step adjustment for optimal illumination



Integrated 2-way probe control provides micro adjustment shifts



The EOD VIII Tactical Videoscope System is one of the lightest videoscope systems on the market. The unique portable and robust design combines built-in 2.5" colour display, integrated rechargeable lithium battery and 2-way tip articulation.

The innovative CMOS image sensor of the EOD VIII Videoscope captures images with realistic colour reproduction.

With an angle of view (FoV) of 90° and a focus range from 5mm to infinity, the objective lens delivers the visual basis for optimal image reproduction.

The extreme articulation of the probe (+180° to -100°) lets the user control the videoscope with great precision and maximum bending angle. With 5.0mm probe diameter the scope is highly flexible and allows to perform the tightest radii. A stainless steel coil inside the 600mm to 1500mm long probe provides the necessary shear strength and robustness.

The integrated rechargeable battery provides power to the LED light source and the colour display. Even with high light incidence, great light intensity, or viewing from the side, the exposure on the bright 6.35cm (2.5") TFT-display with the backlight is still ideal.

Switch on the EOD VIII Tactical Videoscope System and immediately start visual inspection. It's that simple. No cables, no plugs, no long booting process, no long warm up phase of the light source.

Just press a button and instantly delivers the inspection images with up to 7 times higher resolution/quality compared to conventional fiber optic endoscopes.

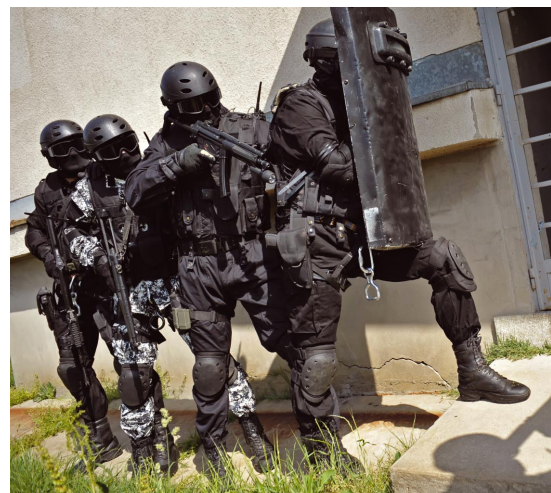
Additionally, you can run the videoscope with 12V to an external power source (220V outlet). The battery is automatically charged during the operation with external power source.

Technology

The probe tip is articulated with a control lever in the hand-piece which conveys each movement instantaneously, precise and directly. Each contact that is made in the inspection object can be felt, this simplifies the orientation in any cavity.

The LED light-source is integrated in the operating unit of the EOD VIII Videoscope. In addition, this technology concept saves repair costs in case of damage, e.g. crushing of the probe tip.

The integrated 3-level adjustable LED ensures optimum illumination of the inspection object. Simply increase the intensity if the cavity is too dark or reduce the intensity if you inspect reflective surfaces or the illumination is too bright. ■



Reliable tactical videoscope ideal for special task forces

Warranty

The EOD VIII comes with a return-to-base warranty against defective materials and workmanship for a period of 2 years from delivery.

After Sales Support

Technical Support business hours (GMT)
Monday – Friday 8.30am – 5.30pm
E: technicalsupport@winkelmann.co.uk

Training

Winkelmann and its partners are able to offer training in the operation of products – contact us today for more information.

Product Code

EOD VIII Tactical Videoscope System – Full Systems

3-299-105 EOD VIII Tactical Videoscope System with integrated 2.5" TFT display, integrated probe control with 2-way tip articulation, integrated 3W LED light source with 3 step adjustment & integrated re-chargeable Li-Pro battery powers all electronic components (run time approx. 1.5hrs). Videoscope diameter 5.0mm, working length 600mm, 2-way tip articulation (+180°/-100°), FOV 90°, DOV 0°, with PU (Polyurethane) insertion tube, 12V DC power supply, guidance manual and carrying case

3-299-106 EOD VIII Tactical Videoscope System, videoscope diameter 5.0mm, working length 1000mm

3-299-107 EOD VIII Tactical Videoscope System, videoscope diameter 5.0mm, working length 1500mm

EOD VIII Tactical Videoscope System – Accessories

3-299-108 USB 2.0 Frame Grabber - Analogue video convertor USB 2.0, incl. software, provides video recording and image capture, image control & professional documentation

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