

# EOD/TSCM PORTABLE VIDEOSCOPE (Flexible Endoscope)

DATA  
SHEET

The EOD VI is a new Portable Videoscope Kit. The system is wireless meaning there are no connecting cables between the videoscope and the viewing screen.

The wireless viewing screen and recorder with built in 30GB HDD & Removable SD card sits in a pouch on the chest or can be positioned up to 50 metres away.

The EOD VI provides cost-effective examination of internal structures without teardown, or for 'machine vision' applications. Maintenance and troubleshooting tasks can be performed with the minimum downtime, while maximizing safety, efficiency and operational time. The EOD VI is also ideal for inspection of difficult to access areas such as wall cavities, ventilation ducts, pipes, between floorboards, car doors and many other inaccessible areas.

## » APPLICATIONS

- Remote Visual Inspection (RVI) has long been accepted as a valuable technique in the aerospace industry, allowing quality control, maintenance and troubleshooting tasks to be performed with the minimum downtime, while maximizing safety, efficiency and operational time.
- Automotive industry, especially in areas such as research & development, manufacturing and customer service.
- Defense industry, including gas turbine, diesel engine, helicopter and explosive ordnance (EOD) inspection.
- Providing cost-effective examination of internal structures without teardown, or for 'machine vision' applications.
- The need for search and bomb disposal (EOD / IEDD) has increased considerably to counter terrorist activities

## » FEATURES

- High resolution glass fiber image guides with excellent light transmission
- 4-way tip deflection, 6mm diameter
- Integrated light guide
- Tungsten braid outer covering for tough industrial use
- Clever lever controls to allow single hand operation tip deflection
- Wireless pocket recorder with 3.5" display complete with integrated receiver
- Supplied with two interchangeable forward viewing objectives 60° and 90°



## » EOD VI COMPONENTS

Man-portable Flexible Endoscope with 4-way tip angulation 160° up, 130° down, 100° left/right, diameter 6mm, length 2 metres (other lengths available). Supplied with two interchangeable forward viewing objectives 60° and 90° fields of view. Provided with miniature CCD Camera (image sensor 1/6" high resolution CCD chip) with 470 TV Lines. Protective outer sheathing tungsten braid (fuel/organic solvent/water resistant). Miniature metal halide light source (24Watt) in belt mountable condura case with brightness control, providing enough light to give clear images of objects placed in deep cavities. Nicad battery pack 12V 5Ah with built-in miniature 2.4 GHz 4 channel video/audio transmitter all in belt mountable condura case.

Display end includes pocket video/audio recorder/player, recording to built-in hard drive (30GB) and removable SD card. Capacity to store over 1000 images. View on 3.5" TFT/LCD display with backlight, facility of video image processing; output to PC via USB 2.0, connection to TV monitor via RCA cable. Plus integrated 2.4 GHz 4 channel Video/Audio Receiver, power 3.7V rechargeable Li-Ion battery or 100-240 VAC all housed in lockable storage transit case. Accessories include spare lamp, spare NICAD battery pack for light source & spare Li-ION battery for Recorder.

## » PRODUCT CODES

**3-299-071** Flexible Endoscope, diameter 6mm, length 2000mm with 4-way tip angulation (160° up, 130° down, 100° left/right), Image sensor: 1/6" high resolution CCD chip with 470 TV lines, supplied with two interchangeable forward viewing objectives 60° & 90° fields of view, with attached light guide. Miniature metal halide light source in belt mountable condura case. Battery pack with built in miniature 2.4GHz 4 channel video / audio transmitter all in belt mountable condura case. 230 VAC battery charger & charging leads for Nicad Battery Pack. Wireless pocket recorder with 3.5" display complete with integrated receiver all in condura pouch with neck strap

### ■ Consumables

- 3-299-072** Spare lamp
- 3-299-073** NICAD battery pack for Light Source
- 3-299-074** 3.6V Li-Ion Battery for Recorder

## » TECHNICAL SPECIFICATIONS

### ■ Flexible Endoscope

|                                 |  |
|---------------------------------|--|
| <b>Diameter</b>                 | 6mm  |
| <b>Length</b>                   | 2 metres (1.5, 3, 6 metres lengths available upon request)   |
| <b>Tip Deflection</b>           | 4 way (160° up, 130° down, 100° left/right)  |
| <b>Field of View</b>            | Supplied with two interchangeable forward viewing objectives 60° & 90° (wide angle field attachment) |
| <b>Insertion Tube Sheathing</b> | Tungsten Braid   |

### ■ Camera

|                         |                               |
|-------------------------|-------------------------------|
| <b>Image Sensor</b>     | 1/6" high resolution CCD chip |
| <b>Resolution Pixel</b> | 470 TV Lines Colour           |

### ■ Video/Audio Transmitter

|                  |                   |
|------------------|-------------------|
| <b>Frequency</b> | 2.4 GHz 4 Channel |
|------------------|-------------------|

### ■ Battery

|                |   |
|----------------|---|
| <b>Type</b>    | Nicad Battery Pack 12V 5Ah                                |
| <b>Housing</b> | In condura case with belt holder (video cassette size)    |
| <b>Weight</b>  | 1.6Kg includes built-in miniature Video/Audio Transmitter |

### ■ Light Source

|                        |  |
|------------------------|--|
| <b>Type</b>            | High intensity 24W miniature metal halide light source (Cool running) 12VDC input  |
| <b>Shutter Housing</b> | Mechanical shutter dimmer<br>Supplied complete with condura pouch with belt holder |
| <b>Weight</b>          | 0.7Kg  |
| <b>Dimensions</b>      | 11.4 x 8.4 x 8.4 cms   |

### ■ Video/Audio Recorder (Display End)

|                        |  |
|------------------------|--|
| <b>Type</b>            | Pocket Video/Audio Recorder / Player with LCD display  |
| <b>Storage Media</b>   | 30GB Hard Drive & Removable SD card  |
| <b>Display Outputs</b> | 3.5" TFT/LCD with LED backlight<br>PC via USB 2.0 connection, TV via RCA cable   |
| <b>Power</b>           | 3.6V rechargeable Li-Ion battery or 100-240 VAC  |
| <b>Weight</b>          | 265 grams (incl. battery)  |
| <b>Dimensions</b>      | 2.4 x 8 x 13 cms   |
| <b>Accessories</b>     | Earphones, remote control, belt holder, CD-ROM, spare battery, Connections for AV In/Out and CCD In/DC5V out & user manual |

### ■ With Intergrated Video/Audio Receiver (Display End)

|                              |   |
|------------------------------|---|
| <b>Type</b>                  | 2.4 GHz 4 Channels  |
| <b>Power</b>                 | 3.7V Li-Ion battery   |
| <b>Weight</b>                | 405 grams   |
| <b>Dimensions</b>            | 14.6 x 6.4 x 8.8 cms  |
| <b>Operating Temperature</b> | -10° to +50°  |
| <b>Humidity</b>              | Up to 95% (non-condensing)  |
| <b>Storage</b>               | All components housed in lockable storage / transit case with protective foam (weather proof/shock proof) |