

**inspectahire**<sup>TM</sup>  
The industrial inspection specialists



Since there are currently no intrinsically safe borescope cameras on the market, our new military tested **explosion-proof borescope camera VIDEOSCOPE-XT** is the best choice to carry out inspections in hazardous environments. These units have been tested under MIL-STD 810G method 511.6 (explosive environment) in accordance with UL standards for NFPA 70: class 1 division 2 requirements for hazardous locations. They also UL certified for Class I Division 2 and have ATEX Certificate of Conformity for Group II Category 3 Equipment Intended for Use in Potentially Explosive Atmospheres Directive 2014/34/EU.

The **explosion-proof borescope camera VIDEOSCOPE-XT** is great for fuel tank inspections, police and military applications, customs and border protection, aviation and gas turbine, NDT, and power generation inspections.

The VIDEOSCOPE-XT inspection system is a full set, with a built-in monitor and integrated design. These units feature a great colour CMOS camera chip in the tip of the probe, which will provide you with a small bend radius to access tight areas or corners. This camera chip has a 90-degree field of view, 4-way tip articulation of 120 degrees in each direction, with 360-degree rotation, controlled via 2 knobs on the ergonomic handle for easy one-handed operation. The extra powerful LED light is located in the handle, so there is no chance of a spark in explosive environments, and it has 3-step intensity control. The live image is displayed on a large color 5" TFT monitor, with image and video captured to an SD memory card. These units also feature digital zoom, text input for captured files, video output to a separate monitor, and a rechargeable battery for portable use.

The **VIDEOSCOPE-XT explosion proof borescope cameras** are available in a 4mm (0.16") diameter probe with standard lengths of 1.5 meters (4.9 feet) to 3 meters (9.8 feet), or there are larger 6mm (0.24") and 8mm (0.314") diameter probes with lengths from 1.5 meters (4.9 feet) to 10 meters (33 feet).

Note: VIDEOSCOPE-XT is a specially ordered product. Conditions apply. Call for details.

## Specifications

- **Tested Under MIL STD 810G method 511.6 (explosive environment)**
- **UL Certified for Class I Division 2 Hazardous Locations**
- **ATEX Certificate of Conformity for Group II Category 3 Equipment Intended for Use in Potentially Explosive Atmospheres Directive 2014/34/EU**

## **Operating Unit**

- Display Size: 5" (12.7 cm) TFT Colour
- Display Resolution: VGA (640x480 Pixel)
- Operating System: Realtime operating System, with On-Screen-Menu
- User Interface: Direct Action Keys, Function-Keys, Arrow-Keys
- Languages: English, French, Spanish, Italian, German, Polish, Turkish
- Video interface: Composite Video-out (BNC)
- Power Supply, primary: re-chargeable Li-Ion-Battery (Charger is provided)
- Power Supply, secondary: 12V Adapter (optional)

## **Documentation**

- Video Format: AVI (.avi) with time and date stamp
- Image Format: BMP (.bmp) time and date stamp
- Storage: SDHC Memory Card up to 32GB (FAT32) (8Gb card is included)

## **Camera Control**

- Image Sensor: Advanced CMOS chip
- White Balance: yes, factory default or user defined

## **Image Control**

- Zoom: x3.5 (Digital)
- Invert: horizontal and vertical Image Inversion
- Brightness: yes, adjustable
- Contrast: yes, adjustable
- Colour: yes, adjustable
- Text Annotation: Built-in full screen text overlay generator

## **Illumination**

- Illumination Control: yes, 3-steps
- Type: High-power cold LED with high transmission fiberoptics
- Colour Temperature: ca. 6500k
- Average Lamp Lifetime: ca. 5000 hours

## Probe

- Diameter: 6.0mm
- Working Length: Can be 4.9 - 33ft (1.5 - 10m) – please specify
- Articulation: 4-way, 360° control (Control Levers)
- Articulation Angle L/R | U/D: 4mm: 100°/100° | 100°/100° 6mm: 100°/100° | 160°/130°
- Integrated Objective Lens: 90° FOV
- Braid: Tungsten Braid on Poly-Urethane-Jacket

## Construction

- Ergonomics: ± 90° rotatable Display Unit, alt. ±90° rotatable Scope Handle
- System Weight: 2.97lb (1.35kg) Operating Unit
- Dimensions: 180mm x 105mm x 45mm
- Housing: rugged PU, with integrated rubber shock caps
- Monitor Protection Class: IP53

## Operating Environment

- Tip Operating Temperature: -13°F to 176°F (-25°C +80°C)
- System Operating Temperature: -13°F to 115°F (-25°C +46°C)
- Storage Temperature: -13°F to 140°F (-25°C +60°C)
- Relative Humidity: 95% max. – non-condensing
- Waterproof: Probe and distal end up to 14,7 psi (1 bar- 10,2 m H2O)
- Resistance: Probe to oils and 5% saline

**Optic: Made in Germany**

**Inspection Unit: Made in USA**