

GE Oil & Gas

XL Lv VideoProbe*

Remote Visual Inspection

GE's Utility Video Borescope

The XL Lv VideoProbe from GE's Measurement & Control business is equipped to handle a wide variety of remote visual inspection needs.



Utility Packed with Features

GE's video borescopes provide one of the best equipment values in the industry.

- Lightweight portable design
- Still image and live video capture
- Full VGA LCD
- Optional automated inspection reporting and data tagging software (Menu Directed Inspection)
- Intuitive, easy-to-use controls
- Servo motor All-Way* Probe articulation
- Shipping and storage case included with system
- 1 GB internal flash memory
- 1 USB® 2.0 port, VGA video out
- Full-tip optic interchangeability with secure double threads
- Two or four hour Lithium Ion Battery

Portability

Our XL Lv VideoProbe system provides inspectors with unparalleled access—without a bulky base unit. Weighing as little as 1.77 kg (3.90 lb), the XL Lv VideoProbe system can easily “view anywhere.”

Image Quality

GE's XL Lv borescope utilizes LED illumination to display excellent image quality. You can save clear, accurate still images and motion video to the internal flash memory or removable USB ThumbDrive™.



Insertion Tube Length and Diameter Options

| CAMERA DIAMETER | INSERTION TUBE WORKING LENGTH | | | |
|-------------------|-------------------------------|----------------|-----------------|------------------|
| 3.9 mm (0.154 in) | 2.0 m (6.6 ft) | 3.0 m (9.8 ft) | | |
| 6.1 mm (0.242 in) | 2.0 m (6.6 ft) | 3.0 m (9.8 ft) | 4.5 m (14.8 ft) | 6.0 m (19.7 ft) |
| 8.4 mm (0.331 in) | | 3.0 m (9.8 ft) | | 10.0 m (32.8 ft) |

System and Accessories

Our XL Lv VideoProbe system is supplied in a convenient light-weight shipping/storage case—which protects the system when not in use, and keeps it organized when in use.



Technical Specifications

System

| | |
|-------------------------------------|---------------------------------------------------------------------------------------------|
| Case Dimensions: | 48.8 x 38.6 x 18.5 cm (19.2 x 15.2 x 7.3 in) |
| System Weight: | In Case: 6.50 kg (14.3 lb) Without Case: 1.77 kg (3.90 lb) |
| Power (Lithium Ion Battery): | 8.4 V, 75 Wh (4-hour) |
| Power Supply: | AC Input: 90-264 VAC, 50-60 Hz, 1.6A Max DC Output: 10.2 V +5/-3%, 4.9 A |
| Construction: | Polycarbonate housings with integrated Versalon™(JP) bumpers |
| Dimensions: | 9.5 x 13.3 x 34.3 cm (3.8 x 5.3 x 13.5 in) |
| LCD Monitor: | Integrated transfective 9.40 cm (3.70 in) active matrix VGA color LCD, 640 x 480 resolution |
| Joystick Control: | 360° All-Way Tip articulation, menu access and navigation |
| Button Set: | Access user functions and digital functions |
| Audio: | Integrated 2.5 mm headset/microphone jack |
| Internal Memory: | 1 GB Flash memory |
| Data I/O Ports: | One USB® 2.0 port VGA Video Out |
| Brightness Control: | Auto and Variable |
| Illumination Type: | White LED |
| White Balance: | Factory default or user defined |
| Long Exposure: | Auto and Manual |

Operating Environment

| | |
|-------------------------------|-----------------------------------------------------------------------------------------------------|
| Tip Operating Temp: | -25°C to 100°C (-13°F to 212°F) Reduced articulation below 0°C (32°F) |
| System Operating Temp: | -20°C to 46°C (-4°F to 115°F) LCD requires warm-up period below 0°C (32°F) |
| Storage Temperature: | -25°C to 60°C (-13°F to 140°F) |
| Relative Humidity: | 95% max, non-condensing |
| Waterproof: | Insertion tube and tip to 14.7 psi (1 bar, 10.2 m of H ₂ O, 33.5 ft of H ₂ O) |

Standards Compliance and Classifications

| | |
|-----------------------------|-------------------------------------------------------------------------|
| Standards Compliance | Group 1, Class A: EN61326-1, UL, IEC, EN CSA-C22.2:61010-1, UN/DOT 38.3 |
| IP Rating | Tested to IP55 |

Technical Specifications

Software

| | |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating System: | Real-time multi-tasking operating system |
| User Interface: | Simple drop-down menu-driven operation Menu navigation using articulation joystick |
| File Manager: | Embedded file manager software supporting: File & Folder creation, naming, deleting Store to internal flash (C:\) or USB ThumbDrive Copy between USB and C:\ |
| Audio Data: | PC compatible (.AAC) file format |
| Image Control: | Invert, Zoom (5X digital), Inverse + Image Capture and Recall |
| Digital Zoom: | Continuous (5X) |
| Image Formats: | Bitmap (.BMP), JPEG (.JPG) |
| Video Format: | MPEG 4 |
| Text Annotation: | Built-in full screen text overlay generator |
| Graphic Annotation: | User placement of arrows |

Articulation Control:

“Steer & Stay” articulation lock/fine articulation
Tip “Home” return to neutral forward-tip orientation
Field updateable via USB ThumbDrive
English, Spanish, French, German, Italian, Russian,
Japanese, Korean, Portuguese, Chinese and Polish

Software Updates:

Languages:

Tip Articulation

| Insertion Tube Length | Straight |
|-----------------------|-------------------------------------------|
| 2.0, 3.0 or 4.5 m | Up/Down – 140° min, Left/Right – 140° min |
| 6.0 m | Up/Down – 120° min, Left/Right – 120° min |
| 10.0 m | Up/Down – 100° min, Left/Right – 100° min |

Note: Typical articulation exceeds minimum specifications

Tip Optics

| Tip View (DOV) | Tip Color | Field of View (FOV) ¹ | Depth of Field (DOF) | 3.9 mm Optical Tip Part # | 6.1 mm Optical Tip Part # | 8.4 mm Optical Tip Part # |
|----------------------|-----------|----------------------------------|----------------------|------------------------------------|---------------------------|---------------------------|
| Standard Tips | | | | | | |
| FORWARD | NONE | ☒ | 80° | 6–80 mm (0.24–3.15 in) | PXT480FG ² | |
| FORWARD | ORANGE | ● | 90° | 3–40 mm (0.12–1.57 in) | PXT490FN | |
| FORWARD | NONE | ☒ | 50° | 50 mm–infinity (1.97 in–infinity) | | XLG3T6150FF ² |
| FORWARD | WHITE | ○ | 50° | 12–200 mm (0.47–7.87 in) | | XLG3T6150FG |
| FORWARD | ORANGE | ● | 80° | 3–20 mm (0.12–0.79 in) | | XLG3T6180FN |
| FORWARD | YELLOW | ● | 90° | 20 mm–infinity (0.79 in–infinity) | | XLG3T6190FF |
| FORWARD | BLACK | ● | 120° | 5–120 mm (0.20–4.72 in) | | XLG3T61120FG |
| FORWARD OBLIQUE | PURPLE | ● | 50° | 12–80 mm (0.47–3.15 in) | | XLG3T6150FB |
| FORWARD | BLACK | ● | 120° | 5–200 mm (0.20–7.87 in) | | XLG3T84120FN |
| FORWARD | NONE | ☒ | 40° | 250 mm–infinity (9.84 in–infinity) | | XLG3T8440FF ² |
| FORWARD | WHITE | ○ | 40° | 80–500 mm (3.15–19.68 in) | | XLG3T8440FG |
| FORWARD | YELLOW | ● | 80° | 25–500 mm (0.98–19.68 in) | | XLG3T8480FG |
| SIDE | BROWN | ● | 80° | 4–80 mm (0.16–3.15 in) | PXT480SG | |
| SIDE | RED | ● | 90° | 2–16 mm (0.08–0.63 in) | PXT490SN | |
| SIDE | BROWN | ● | 50° | 45 mm–infinity (1.77 in–infinity) | | XLG3T6150SF |
| SIDE | GREEN | ● | 50° | 9–160 mm (0.35–6.30 in) | | XLG3T6150SG |
| SIDE | BLUE | ● | 120° | 4–100 mm (0.16–3.94 in) | | XLG3T61120SG |
| SIDE | RED | ● | 80° | 1–20 mm (0.04–0.79 in) | | XLG3T6180SN |
| SIDE | BROWN | ● | 40° | 250 mm–infinity (9.84 in–infinity) | | XLG3T8440SF ² |
| SIDE | GREEN | ● | 80° | 25–500 mm (0.98–19.68 in) | | XLG3T8480SG |
| SIDE | BLUE | ● | 120° | 4–200 mm (0.16–7.87 in) | | XLG3T84120SN |

¹ FOV is specified diagonally.

² Indicates tips with maximum brightness.



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GEA32605A 07/2016 | GEIT-65046EN