

GE Oil & Gas

# XL Lv VideoProbe<sup>\*</sup>

## 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 boscopes provide one of the best equipment values in the industry.

- Lightweight portable design
- Still image and live video capture
- Full VGA LCD
- NEW 4.0 mm optics set for improved image quality and far focus general inspection
- 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				
4.0 mm (0.157 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

<b>Case Dimensions:</b>	48.8 x 38.6 x 18.5 cm (19.2 x 15.2 x 7.3 in)
<b>System Weight:</b>	<b>In Case:</b> 6.50 kg (14.3 lb) <b>Without Case:</b> 1.77 kg (3.90 lb)
<b>Power (Lithium Ion Battery):</b>	8.4 V, 38 Wh (2 hour)
<b>Power Supply:</b>	8.4 V, 75 Wh (4 hour) <b>AC Input:</b> 100-240 VAC, 50-60 Hz, 1.5 A Max <b>DC Output:</b> 9.5 V, 6.0 A
<b>Construction:</b>	Polycarbonate housings with integrated Versalon™ (JP) bumpers
<b>Dimensions:</b>	9.5 x 13.3 x 34.3 cm (3.8 x 5.3 x 13.5 in)
<b>LCD Monitor:</b>	Integrated transreflective 9.40 cm (3.70 in) active matrix VGA color LCD, 640 x 480 resolution
<b>Joystick Control:</b>	360° All-Way Tip articulation, menu access and navigation
<b>Button Set:</b>	Access user functions and digital functions
<b>Audio:</b>	Integrated 2.5 mm headset/microphone jack
<b>Internal Memory:</b>	1 GB Flash memory
<b>Data I/O Ports:</b>	One USB® 2.0 port VGA Video Out
<b>Brightness Control:</b>	Auto and Variable
<b>Illumination Type:</b>	White LED
<b>White Balance:</b>	Factory default or user defined
<b>Long Exposure:</b>	Auto and Manual

## Operating Environment

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

## Standards Compliance and Classifications

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

# Technical Specifications

## Software

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

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

## 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) <sup>1</sup>	Depth of Field (DOF)	4.0 mm Optical Tip Part #	6.1 mm Optical Tip Part #	8.4 mm Optical Tip Part #
<b>Standard Tips</b>						
FORWARD	NONE	☒	80°	35 mm–infinity (1.38 in–infinity)	T4080FF	
FORWARD	BLACK	●	115°	4 mm–infinity (0.16 in–infinity)	T40115FN	
FORWARD	NONE	☒	50°	50 mm–infinity (1.97 in–infinity)		XLG3T6150FF <sup>(2)</sup>
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 <sup>(2)</sup>
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	BLUE	●	120°	6 mm–infinity (0.24 in–infinity)	T40120SF	
SIDE	RED	●	115°	1–30 mm (0.04–1.18 in)	T40115SN	
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 <sup>(2)</sup>
SIDE	GREEN	●	80°	25–500 mm (0.98–19.68 in)		XLG3T8480SG
SIDE	BLUE	●	120°	4–200 mm (0.16–7.87 in)		XLG3T84120SN

<sup>(1)</sup> FOV is specified diagonally.

<sup>(2)</sup> Indicates tips with maximum brightness.



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