

GE  
Measurement & Control

# XL Vu VideoProbe\*

## Remote Visual Inspection

### The Essential Video Borescope

XL Vu VideoProbe from GE Measurement & Control is equipped to handle all of your remote visual inspection needs.

### Updated

- Better image quality
- Better articulation deflection
- Updated image controls: long exposure, inverse + and 5x zoom
- External Keyboard support
- Transflective Sunlight Readable LCD
- Stereo Measurement Enhancement



## Advanced Features

Portable and equipped with essential features make GE video borescopes one of the best equipment value in the industry.

- Intuitive, easy-to-use controls
- Servo motor All-Way\* Probe articulation
- Custom shipping and storage case included with system
- Integrated temperature Warnings System
- Optional Stereo Measurement Enhancement
- 1GB 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

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



## Image Quality

XL Vu utilizes LED illumination to display excellent image quality. Save clear, accurate still images and motion video to the internal flash memory or removable USB ThumbDrive™.

## Superior All-Way\* Articulation, Durability and Probe 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)	8.0 m (26.2 ft)
8.4 mm (0.331 in)	2.0 m (6.6 ft)	3.0 m (9.8 ft)	4.5 m (14.8 ft)	8.0 m (26.2 ft)

# System and Accessories

The XL Vu VideoProbe\* system is supplied in a convenient light-weight shipping/storage case. The case 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>	8.4V, 75 Wh (4-hour)
<b>Power Supply</b>	<b>AC Input:</b> 90-264 VAC, 50-60 Hz, 1.6A Max <b>DC Output:</b> 10.2V +/-3%, 4.9A
<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 transfective 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 2.5mm headset/microphone jack
<b>Internal Memory:</b>	1GB 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, 10.2m of H <sub>2</sub> O, 33.5 ft of H <sub>2</sub> O)

## Standards Compliance and Classifications

<b>MIL-STD-810G</b>	United States Department of Defense Environment Tests Sections 506.5, 507.5, 509.5, 510.5, 511.5, 514.6, 516.6, 521.3
<b>MIL-STD-461F</b>	United States Department of Defense Electromagnetic Interference RS103 - ABOVE DECK
<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>	Internally 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: PC & Folder creation, naming, deleting Store to internal flash (C:\) or USB ThumbDrive Copy between USB and C:\
<b>Measurements:</b>	StereoProbe® and Comparison
<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
<b>Software Updates:</b>	Field updateable via USB ThumbDrive
<b>Languages:</b>	English, Spanish, French, German, Italian, Russian,

Japanese, Korean, Portuguese, Chinese and Polish

## Tip Articulation

Insertion Tube Length	One Loop
2.0, 3.0 or 4.5 m	Up/Down – 160° min, Left/Right – 160° min
8.0 m	Up/Down – 140° min, Left/Right – 140° min

**Note:** Typical articulation exceeds minimum specifications

## Tip Optics

Tip View (DOV)	Tip Color	Field of View (FOV)*	Depth of Field (DOF)	3.9 mm Optical Tip Part #	6.1 mm Optical Tip Part #	8.4 mm Optical Tip Part #
<b>Standard Tips</b>						
FORWARD	NONE	☒	80°	6–80 mm (0.24–3.15 in)	PXT480FG	
FORWARD	ORANGE	●	90°	3–40 mm (0.12–1.57 in)	PXT490FN	
FORWARD	NONE	☒	50°	50 mm–infinity (1.97 in–infinity)		XLG3T6150FF
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)		XLG3T8440F <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	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 <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
<b>StereoProbe Measurement Tips</b>						
FORWARD	BLACK	●	50°/50°	5–45 mm (0.20–1.77 in)	PXTM45050FG	
FORWARD	BLACK	●	60°/60°	4–80 mm (0.16–3.15 in)		XLG3TM616060FG
FORWARD	BLACK	●	60°/60°	4–50 mm (0.16–1.97 in)		XLG3TM846060FG
SIDE	BLUE	●	50°/50°	4–45 mm (0.16–1.77 in)	PXTM45050SG	
SIDE	BLUE	●	45°/45°	2–50 mm (0.08–1.97 in.)		
SIDE	BLUE	●	50°/50°	2–50 mm (0.08–1.97 in)		XLG3TM615050SG
SIDE	BLUE	●	60°/60°	4–80 mm (0.16–3.15 in)		
SIDE	BLUE	●	60°/60°	4–50 mm (0.16–1.97 in)		XLG3TM846060SG

<sup>[1]</sup> FOV is specified diagonally.

<sup>[2]</sup> Indicates tips with maximum brightness.



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