

GE  
Measurement & Control

# XL Vu+ VideoProbe\*

## Remote Visual Inspection

XL Vu+ VideoProbe from GE Measurement & Control is a general-purpose video borescope for all-purpose applications that delivers all-over great general performance.



## Packed with Features

Portable, rugged and equipped with features that make GE video borescopes one of the best equipment values in the industry.

- Intuitive, easy-to-use controls
- StereoProbe\*, ShadowProbe\* and Comparison defect measurement
- Servo motor All-Way\* Probe articulation
- Integrated temperature warning system

## Portability Plus

Powered by a long-running lithium ion battery, the XL Vu+ VideoProbe system provides inspectors unparalleled access without a bulky base unit, tethered scope or power cord. Weighing only 1.73 kg (3.8 lb), the XL Vu+ VideoProbe system can easily be used in confined spaces.



## Rugged and Reliable

The XL Vu+ VideoProbe system is constructed with high impact strength polycarbonate housing designed to stand up to the harshest industrial environments. Tested to MIL-STD-810G standards and a battery of durability tests, it is equipped for use in real-world applications.

- 1 GB Internal Flash memory
- 2 USB® 2.0 ports, VGA video out
- Two- or four-hour lithium battery
- Full tip optic interchangeability with secure double threads
- Custom shipping and storage case included with system

## Image Quality

The XL Vu+ VideoProbe system utilizes high-output LED illumination to display outstanding image quality on its full-VGA LCD. Clear, accurate still images and motion video can be saved to the internal flash memory or removable USB ThumbDrive®.



## 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

## Operating Environment

<b>Tip Operating Temperature</b>	-25°C to 80°C (-13°F to 212°F) Reduced articulation below 0°C (32°F)
<b>System Operating Temperature</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)

## 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>	6.5 kg (14.3 lb)
<b>Without Case</b>	1.73 kg (3.8 lb)
<b>Power</b>	7.2V, 5100 mAh or 10,200 mAh battery pack AC: 90-264 VAC, 47-63 Hz, <1.2 Arms @ 90 VAC DC: 10.2V +5%/-3%, 4.9 A
<b>Construction</b>	Polycarbonate housings with integrated Versalon™(JP) bumpers
<b>Dimensions</b>	9.53 x 13.34 x 34.29 cm (3.75 x 5.25 x 13.50 in)
<b>LCD Monitor</b>	Integrated 9.40 cm (3.70 in) active matrix VGA color LCD
<b>Joystick Control</b>	360° All-Way® tip articulation, menu access and navigation
<b>Button Set</b>	Access user functions, measurement 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>	Two USB® 2.0 ports VGA video out
<b>Brightness Control</b>	Auto and Variable
<b>Illumination Type</b>	White LED
<b>Long Exposure</b>	Up to 12 seconds via auto and manual mode
<b>White Balance</b>	Factory default or user defined

## Standards Compliance and Classifications

<b>MIL-STD-810G</b>	United States Department of Defense Environment Tests Sections 506.4, 507.4, 509.4, 510.4, 511.4, 514.5, 516.5, 521.2
<b>Standards Compliance</b>	Group 1, Class A: EN61326-1, EN55011 UL, IEC, EN CSA-C22.2:61010-1 UN/DOT T1-T8



## Camera

### 5.0 mm (0.197), 6.1 mm (0.242 in) and 8.4 mm (0.331 in) Diameter Probes

<b>Image Sensor</b>	1/6 inch Color SUPER HAD™ CCD camera
<b>Pixel Count</b>	440,000 pixels
<b>Housing</b>	Titanium

### 3.9 mm (0.154 in) Diameter Probes

<b>Image Sensor</b>	1/10 inch Color SUPER HAD™ CCD camera
<b>Pixel Count</b>	290,000 pixels
<b>Housing</b>	Titanium

## 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 and 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) Image Capture and Recall
<b>Digital Zoom</b>	Continuous (5.0X)
<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 User-selectable fine or coarse control
<b>Software Updates</b>	Field updateable via USB ThumbDrive
<b>Languages</b>	English, Spanish, French, German, Italian, Russian, Japanese, Korean, Portuguese, Chinese, Polish

## Tip Articulation

Insertion Tube Length	Articulation
<= 4.5 m	160° min, All-Way articulation
>4.5 m	150° min, All-Way articulation

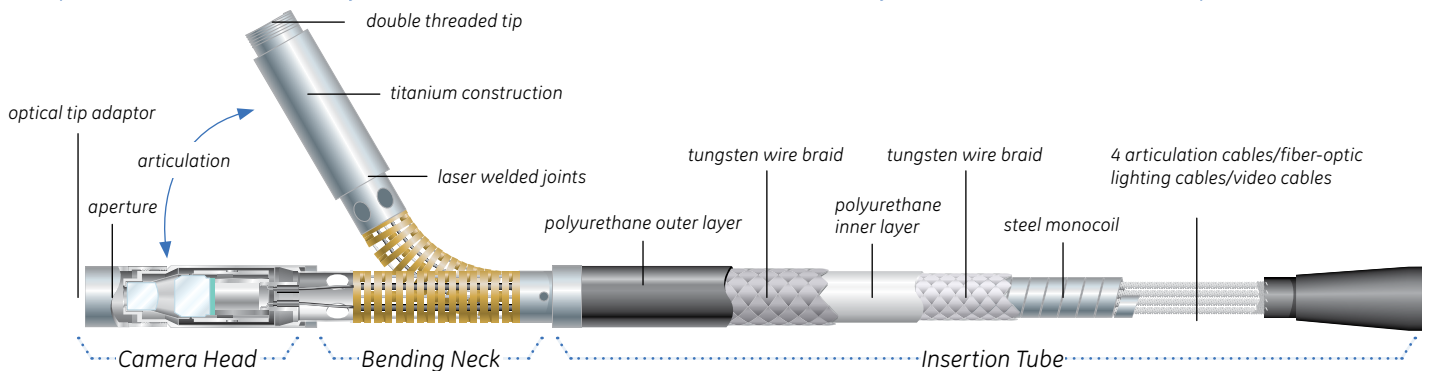
**Note:** Typical articulation exceeds minimum specifications

## Tip Optics

Tip View (DOV)	Tip Color	Field of View (FOV) <sup>†</sup>	Depth of Field (DOF)	3.9 mm Optical Tip Part #	5.0 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 (1.97 in)–infinity		PXT550FF	XLG3T6150FF	
FORWARD	WHITE ○	50°	12–200 mm (0.47–7.87 in)		PXT550FG	XLG3T6150FG	
FORWARD	ORANGE ●	80°	3–20 mm (0.12–0.79 in)		PXT580FN	XLG3T6180FN	
FORWARD	YELLOW ●	90°	20 mm (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	BLACK ●	120°	5–120 mm (0.20–4.72 in)		PXT5100FG		
FORWARD	NONE ☒	40°	250 mm (9.84 in)–infinity				XLG3T8440FF <sup>††</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 (1.77 in)–infinity			XLG3T6150SF	
SIDE	GREEN ●	50°	9–160 mm (0.35–6.30 in)		PXT550SG	XLG3T6150SG	
SIDE	BLUE ●	120°	4–100 mm (0.16–3.94 in)			XLG3T61120SG	
SIDE	BLUE ●	100°	4–100 mm (0.16–3.94 in)		PXT5100SG		
SIDE	RED ●	80°	1–20 mm (0.04–0.79 in)		PXT580SN	XLG3T6180SN	
SIDE	BROWN ●	40°	250 mm (9.84 in)–infinity				XLG3T8440SF <sup>††</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>†</sup>FOV is specified diagonally. <sup>††</sup>Indicates tips with maximum brightness.

## Superior All-Way\* Articulation, Durability and Probe Options



**Note:** Illustration is not drawn to scale.

Camera Diameter	Insertion Tube Working Length					
3.9 mm (0.154 in)	2.0 m (6.6 ft)	3.0 m (9.8 ft)				
5.0 mm (0.197 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)	8.0 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)	6.0 m (19.7 ft)	8.0 m (26.2 ft)	9.6 m (31.5 ft)



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GEA-30803 (07/2013)

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