

XL Vu+ VideoProbe*

Remote Visual Inspection

XL Vu+ VideoProbe, from our Inspection Technologies product line, is a general-purpose video borescope for all-purpose applications that delivers all-around excellent performance.



Packed with Features

Portable, rugged and equipped with features that make GE video boscopes 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
- Sealed housings for Dust and Water ingress protection to IP55
- MDI software automatically annotates saved images, intelligently names files and creates Microsoft Word® compatible inspection reports.

Portability Plus

Powered by a long-running lithium ion battery, the XL Vu+ VideoProbe system provides inspectors unparalleled access without being tethered to an external monitor unit 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-resistant 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
- Rugged 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

Tip Operating Temp:	-25°C to 100°C (-13°F to 212°F) Reduced articulation below 0°C (32°F)
System Operating Temperature	-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)

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	6.5 kg (14.3 lb)
Without Case	1.73 kg (3.8 lb)
Power	7.2V, 5100 mAh or 10,200 mAh battery pack AC: 90-264 VAC, 47-63 Hz, <1.2Arms @ 90 VAC DC: 10.2V +5%/-3%, 4.9 A Battery run time 2 hours standard, 4 hours optional
Construction	Polycarbonate housings with integrated Versalon™(JP) bumpers
Dimensions	9.53 x 13.34 x 34.29 cm (3.75 x 5.25 x 13.50 in)
LCD Monitor	Integrated 9.40 cm (3.70 in) active matrix VGA color LCD
Joystick Control	360° All-Way® tip articulation, menu access and navigation
Button Set	Access user functions, measurement and digital functions
Audio	Integrated 2.5 mm headset/microphone jack
Internal Memory	1 GB Flash memory
Data I/O Ports	Two USB® 2.0 ports VGA video out
Brightness Control	Auto and Variable
Illumination Type	White LED
Long Exposure	Up to 12 seconds via auto and manual mode
White Balance	Factory default or user defined

Standards Compliance and Classifications

MIL-STD-810G	United States Department of Defense Environment Tests Sections 506.4, 507.4, 509.4, 510.4, 511.4, 514.5, 516.5, 521.2
Standards Compliance	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

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

3.9 mm (0.154 in) Diameter Probes

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

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 and 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) Image Capture and Recall
Digital Zoom	Continuous (5.0X)
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”™ All-Way lock/fine articulation Tip “Home” return to neutral forward-tip orientation User-selectable fine or coarse control
Software Updates	Field updateable via USB ThumbDrive
Languages	English, Spanish, French, German, Italian, Russian, Japanese, Korean, Portuguese, Chinese, Polish

Tip Optics

Tip View (DOV)	Tip Color	Field of View (FOV) [†]	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 #
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ShadowProbe® Measurement Tips

FORWARD	WHITE	○	50°	12-30 mm (0.47-1.18 in)		XLG3TM6150FG	
SIDE	BLUE	●	50°	7-24 mm (0.28-0.94 in)		XLG3TM6150SG	

StereoProbe® Measurement Tips

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)		PXTM56060FG	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.)		PXTM54545SG	
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

Tip Articulation

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

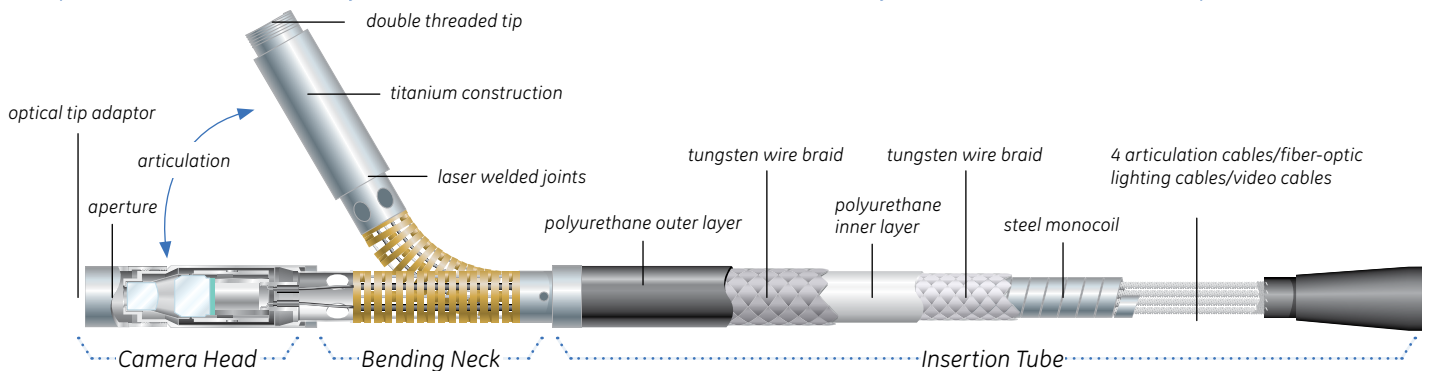
Note: Typical articulation exceeds minimum specifications

Tip Optics

Tip View (DOV)	Tip Color	Field of View (FOV) [†]	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 #
Standard Tips							
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 ^{††}
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 ^{††}
SIDE	GREEN ●	80°	25–500 mm (0.98–19.68 in)				XLG3T8480SG
SIDE	BLUE ●	120°	4–200 mm (0.16–7.87 in)				XLG3T84120SN

[†]FOV is specified diagonally. ^{††}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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