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.

Advanced Features

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

- Intuitive, easy-to-use controls
- Servo motor All-Way® Probe articulation
- AC corded or battery powered options available
- Custom shipping and storage case included with system

- 1GB Internal Flash memory
- 1 USB® 2.0 port, VGA video out
- Full tip optic interchangeability with secure double threads
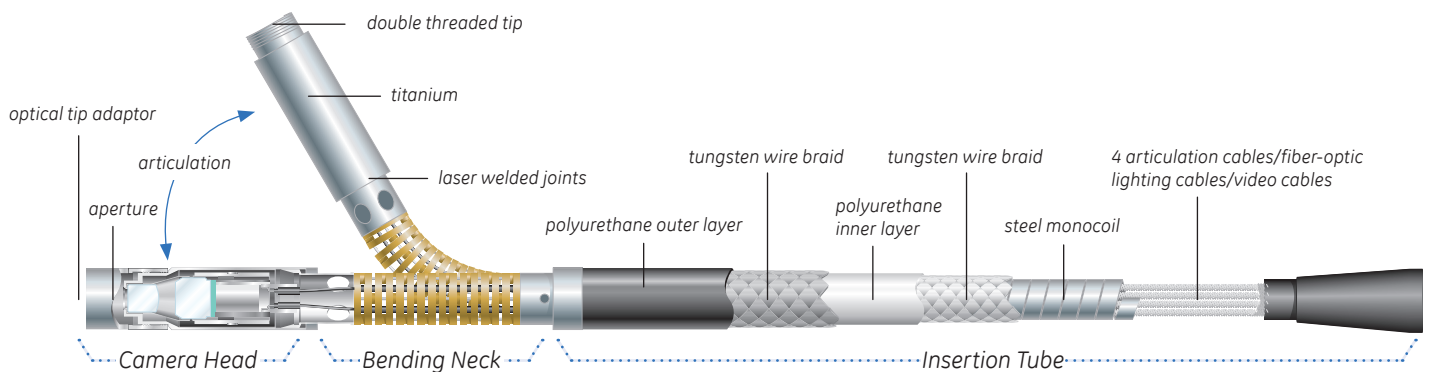
Two Power Options

Plug into a nearby AC outlet with the corded version or use a long running lithium ion battery powered version. 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

double threaded tip
titanium
optical tip adaptor
articulation
laser welded joints
aperture
tungsten wire braid
tungsten wire braid
4 articulation cables/fiber-optic lighting cables/video cables
polyurethane outer layer
polyurethane inner layer
steel monocoil

Camera Head · · · Bending Neck · · · Insertion Tube

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)		
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 shipping/storage case that protects the system when not in use and keeps it organized when in use.

standard shipping/storage case

mini magic clamp (optional)

hand-set holder (optional)

ball joint (optional)

optical tip case

tube gripper (optional)

8 GB ThumbDrive®

optional 2- or 4-hour battery (for battery version only)

AC battery charger (for battery version only)

power cord (for corded version only)

Technical Specifications

System

System Case Dimensions:	48.8 x 38.6 x 18.5 cm (19.2 x 15.2 x 7.3 in)
System Weight:	
Battery Version:	**In Case:** 6.50 kg (14.3 lb)
	Without Case: 1.77 kg (3.90 lb)
Corded Version:	**In Case:** 6.90 kg (15.1 lb)
	Without Case: 2.16 kg (4.77 lb)
Power (Lithium Ion Battery):	8.4V, 38 Wh (2-hour) or 75 Wh (4-hour)
Power Supply	
Battery Version:	**AC Input:** 90-264 VAC, 50-60 Hz, 1.6A Max
	DC Output: 10.2V +5/-3%, 4.9A
Corded Version:	**AC Input:** 100-240 VAC, 50-60Hz, 1.6A Max
	DC Output: 10.2V +5/-4%, 4.9A
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 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 and digital functions
Audio:	Integrated 2.5mm headset/microphone jack
Internal Memory:	1GB 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

Operating Environment

Tip Operating Temp:	-25°C to 80°C (-13°F to 176°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, 10.2m of H_2O, 33.5 ft of H_2O)
Hazardous Environments:	Not rated for use in hazardous environments

Standards Compliance and Classifications

Standards Compliance:	Group 1, Class A: EN61326-1 (basic radiated immunity)
	UL, IEC, EN61010-1, CSA-C22.2
	UN/DOT T1-T8

Camera

6.1 mm (0.242 in) and 8.4mm (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

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 (3X digital)
	Image Capture and Recall
Digital Zoom:	Continuous (3X)
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
Software Updates:	Field updateable via USB ThumbDrive
Languages:	English, German, Spanish, French, Italian, Russian, Polish, Chinese, Japanese, Korean, Brazilian Portuguese.

Tip Articulation

Insertion Tube Length	Straight
2.0, 3.0 or 4.5 m	Up/Down – 150° min, Left/Right – 150° min
8.0 m	Up/Down – 120° min, Left/Right – 120° 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
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		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 (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 (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)		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 (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.

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