GE Oil & Gas

XL Lv VideoProbe*
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 borescopes provide one of the best equipment values in the industry.

- Lightweight portable design

- Still image and live video capture

- Full VGA LCD

- 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					
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)	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.

Standard shipping/storage case

Magic clamp (optional)

4 hour battery (optional)

Optical tip case

Included battery charger/ac adapter

Tube gripper (optional)

ThumbDrive®

Technical Specifications

System

Case Dimensions:	48.8 x 38.6 x 18.5 cm (19.2 x 15.2 x7.3 in)
System Weight:	**In Case:** 6.50 kg (14.3 lb)
	Without Case: 1.77 kg (3.90 lb)
Power (Lithium Ion Battery):	8.4 V, 38 Wh (2 hour)
	8.4 V, 75 Wh (4 hour)
Power Supply	**AC Input:** 100-240 VAC, 50-60 Hz, 1.5 A Max
	DC Output: 9.5 V, 6.0 A
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 transflective 9.40 cm (3.70 in) active matrix VGA color LCD, 640 x 480 resolution
Joystick Control:	360° All-Way Tip articulation, menu access and navigation
Button Set:	Access user functions and digital functions
Audio:	Integrated 2.5 mm headset/microphone jack
Internal Memory:	1 GB 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
Long Exposure:	Auto and Manual

Operating Environment

Tip Operating Temp:	-25°C to 100°C (-13°F to 212°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, 10.2 m of H_2O, 33.5 ft of H_2O)

Standards Compliance and Classifications

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

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 (5X digital), Inverse + Image Capture and Recall
Digital Zoom:	Continuous (5X)
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, Spanish, French, German, Italian, Russian, Japanese, Korean, Portuguese, Chinese and Polish

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)[1]	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[2]		
FORWARD	ORANGE	●	90°	3–40 mm	(0.12–1.57 in)	PXT490FN		
FORWARD	NONE	⊠	50°	50 mm–infinity	(1.97 in–infinity)		XLG3T6150FF[2]	
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[2]
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 [2]
SIDE	GREEN	●	80°	25–500 mm	(0.98–19.68 in)			XLG3T8480SG
SIDE	BLUE	●	120°	4–200 mm	(0.16–7.87 in)			XLG3T84120SN

[1] FOV is specified diagonally.
[2] Indicates tips with maximum brightness.

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