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Videoscopes & Borescopes

Remote Visual Inspection (RVI)



GE Inspection Technologies

GE XL VU 6.1mm x 8.0m Borescope

Pine Item #55885

DESCRIPTION:

Portability

XL Vu VideoProbe system provides inspectors with 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

GE's XL Vu 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™.

FEATURES:

- StereoProbe and comparison indication measurement
- Transflective sunlight readable LCD
- The probe operates up to 100°C to gain access faster in high-temperature applications where cooling time is needed
- Automated inspection reporting and data tagging software (Menu Directed Inspection)
- Live on-screen Tip Map aids inspectors in guiding the tip during the inspection. A grid shows the tip direction and helps inspectors maintain orientation or better navigation.
- User Interface: Simple drop-down menu-driven operation
- Menu navigation using articulation joystick

APPLICATIONS:

- Aerospace
- Oil & gas
- Power generation
- Process industries
- Wind power
- General engineering



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Product 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 temp:	-25°C to 46°C (-13°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)
Environmental:	IP55 Ingress Protection
System	
Case Dimensions:	48.8x38.6x18.5cm(19.2x15.2x7.3in)
System Weight:	In case: 6.50 kg (14.30 lb) Without case: 1.73 kg (3.80 lb)
Power (Lithium Ion battery)	8.4 V, 38 Wh (4 hour) 8.4 V, 75 Wh (4 hour)
Power supply:	AC Input: 100-240 VAC, 50-60 Hz, 1.5 A Max Output: 9.5 V, 6.0 A
Construction:	Polycarbonate housings with integrated Versalon™-M(JP) bumpers
Dimensions:	9.53 x 13.34 x 34.29 cm (3.75 x 5.25 x 13.50 in)
LCD monitor:	Integrated transfective 9.40 cm (3.70 in) active matrix VGA color LCD with XpertBright, 640 x 480 resolution
Joystick control:	360° All-Way tip articulation with XpertSteer, bump gesture, menu access and navigation
Button set:	Access user functions, measurement and digital functions
Audio:	Integrated 2.5 mm headset/microphone jack
Internal memory:	4 GB Flash memory
Data I/O ports:	Two USB® 2.0 ports
Video port:	VGA Video Out
Brightness control:	Auto and Variable
Illumination type:	White LED
Long exposure:	Via auto and manual mode
White balance:	Factory default or user defined

Standards Compliance and Classifications	
MIL-STD-810G	Tested to United States Department of Defense Environment Tests Sections 506.5, 507.5, 509.5, 510.5, 511.5, 514.6, 516.6, 521.3
MIL-STD-461F	Tested to United States Department of Defense Electromagnetic Interference RS103 - ABOVE DECK
Standards Compliance	Group 1, Class A: EN61326-1 UL, IEC, EN CSA-C22.2:61010-1 UN/DOT T1-T8
IP Rating	Tested to IP55
Camera	
4.0 mm (0.157 in) Diameter Probes	Image Sensor: 1/10 inch Color SUPER HAD CCD camera Pixel Count: 290,000 pixels Housing: Titanium
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: 290,000 pixels Housing: Titanium
Pixel count:	440,000 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 & Folder creation, naming, deleting Store to internal Flash (C:) or USB ThumbDrive Copy between USB and C:\
Measurements:	StereoProbe and Comparison
MDI software (optional):	Provides user defined guided inspection Creates DICONDE compatible inspection files Creates MS Word® compatible inspection reports
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 Supports international language character sets 100 text line capacity
Graphic annotation:	User placement of arrows
Articulation control:	"Steer & Stay" articulation lock/fine articulation Tip "Home" return to neutral forward-tip orientation User-selectable fine or coarse control XpertSteer probe articulation offers quick steering responsiveness for tight probe control – bump steering enables slight adjustments to probe position
Software updates:	Field updateable via USB ThumbDrive
Languages:	English, Spanish, French, German, Italian, Russian, Japanese, Korean, Portuguese, Chinese, Polish



Product Specifications

Insertion Tube Length and Diameter Options

Camera Diameter	Insertion Tube Working Length						
4.0 mm (0.157 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)		10.0 m (32.8 ft)

Tip Articulation

Note: Typical articulation exceeds minimum specifications

Insertion Tube Length	Straight Tube
2.0, 3.0 or 4.5 m	Up/Down – 160° min, Left/Right – 160° min
6.0 m	Up/Down – 140° min, Left/Right – 140° min
8.0 m, 10.0 m	Up/Down – 120° min, Left/Right – 120° min

Tip Optics

Tip View (DOV)	Tip Color	Field of View (FOV)(1)	Depth of Field (DOF)		4.0 mm Opti- cal Tip Part #	6.1 mm Optical Tip Part #	8.4 mm Optical Tip Part #
STANDARD TIPS							
FORWARD	NONE	80°	35 mm–infinity	(1.38 in–infinity)	T4080FF		
FORWARD	BLACK ●	115°	4 mm–infinity	(0.16 in–infinity)	T40115FN		
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	BLACK ●	100°	5–120 mm	(0.20–4.72 in)			
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	BLUE ●	120°	6 mm–infinity	(0.24 in–infinity)	T40120SF		
SIDE	RED ●	115°	1–30 mm	(0.04–0.18 in)	T40115SN		
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	BLUE ●	100°	4–100 mm	(0.16–3.94 in)			
SIDE	RED ●	80°	1–20 mm	(0.04–0.79 in)		XLG3T6180SN	
SIDE	GREEN ●	80°	18 mm	(0.71 in–infinity)			
SIDE	BLUE ●	80°	5 mm	(0.20 in–infinity)			
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
STEREOPROBE MEASUREMENT TIPS							
FORWARD	BLACK ●	55° / 55°	5 mm–infinity	(0.2 in–infinity)	TM405555FG		
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 ●	55° / 55°	4 mm–infinity	(0.16 in–infinity)	TM405555SG		
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

(1) FOV is specified diagonally; (2) Indicates tips with maximum brightness.

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www.twn-technology.com
office@twn-technology.com
service@twn-technology.com



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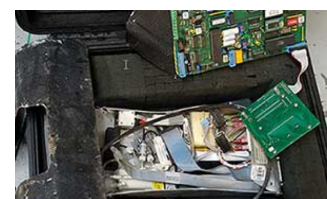
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