

GE
Measurement & Control

XL Go+™ VideoProbe®

Inspection Technologies

See **more** easily

XL Go+ delivers increased probability of detection with new XpertSuite™

Feel more confident about your assets and the decisions you need to make



XpertSuite™ Improves Probability of Detection

XL Go+ VideoProbe has a host of new features designed to help increase the probability of detection. XpertSuite complements the XL Go's superior image quality to provide enhanced performance to assist in locating and measuring defects.

XpertVision™ External Monitor

An optional battery-operated monitor supplements the XL Go+ system. The monitor easily connects to the Go and provides additional viewing by a second inspector or remote observation.

XpertBright™ Readable LCDs

Both the XL Go+ and the XpertVision LCDs are designed for maximum readability in strong outdoor lighting, harsh factory lighting or snowy environments. XpertBright enables optimum viewing while enhancing image quality.

XpertSteer™ Probe Articulation

Coupled with Servomotor All-Way® articulation, XpertSteer offers quick, responsive steering. When you stop steering the probe stops moving - no more overshooting. A bump steering feature enables tight probe control. A small "bump" of the joystick moves the probe at a small increment for better defect visibility.

XpertLight™ Probe Illumination

Increased probe light output improves the image quality and the likelihood of identifying a defect. The increase in light output also enables the XL Go+ to locate defects in larger area applications.



XL Go+ with XpertVision External Monitor

Portability Packed with Features

- StereoProbe®, ShadowProbe® and Comparison defect measurement
- Servo motor All-Way® Probe articulation
- Sealed housings for Dust and Water ingress protection to IP55
- Integrated Temperature Warning system
- Probe operates up to 100°C to gain access faster in high-temperature applications where cooling time is needed
- Patented Menu Directed Inspection (MDI) software automatically annotates saved images, intelligently names files and creates Microsoft Word® compatible inspection reports.
- Tip Map aids inspectors in guiding the tip during inspection. A grid shows the tip direction and helps inspectors maintain orientation or better navigation.
- 4 GB Internal Flash memory
- 2 USB® 2.0 ports, VGA video out, headset/microphone port
- Two- or four-hour Li-Ion battery
- Full tip optic interchangeability with secure double threads
- Custom shipping and storage case included with system



XL Go+ Standard Storage Case and Accessories

Tip Articulation

Insertion Tube Length	Straight Tube
2.0 m, 3.0 m, 3.2 m, 4.5 m	Up/Down – 160° min, Left/Right – 160° min
6.0 m, 8.0 m, 9.6 m	Up/Down – 150° min, Left/Right – 150° min

Note: Typical articulation exceeds minimum specifications

Technical Specifications

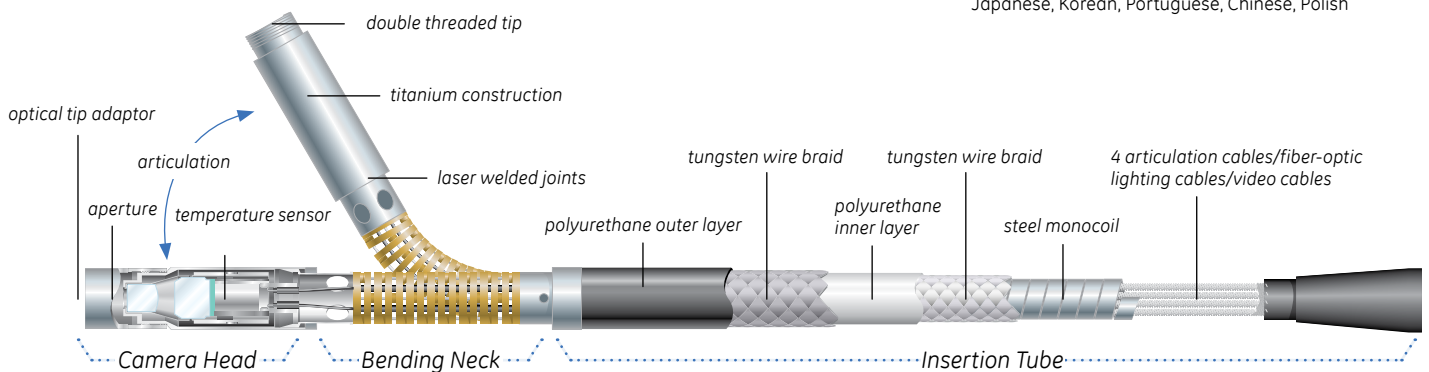
Operating Environment

Tip Operating Temp:	-25°C to 100°C (-13°F to 212°F) Reduced articulation below 0°C (32°F)
System Operating Temp:	-20°C to 46°C (-4°F to 115°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 ₂ O, 33.5 ft of H ₂ O)
Ingress Protection:	IP55

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:	6.50 kg (14.30 lb)
Without Case:	1.73 kg (3.80 lb)
Power:	8.4V, 43Wh and 86Wh Battery Pack AC: 90-264 Vac, 47-63Hz, <1.2Arms @90 Vac DC: 10.2V +5/-3%. 4.9A
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 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 2.5mm 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
XpertVision (optional external monitor):	
Weight:	1.12 kg (2.46 lb) with battery
LCD:	16.25 cm (6.4 in) diagonal active matrix VGA color LCD with XpertBright
Resolution:	640 x 480 pixels
Sunlight Readable:	1100 Cd/Msqquared
Mounting:	75 x 75 mm (1/4-20) and vesa mount
Battery Run Time:	2 hours

Insertion Tube



Note: Illustration is not drawn to scale.

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
MIL-STD-461F:	United States Department of Defense Electromagnetic Interference RS103 and RE102 (Navy above deck) Group 1, Class A: EN61326-1
Standards Compliance:	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) and 6.2 mm (0.244 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 Embedded file manager software supporting: File & Folder creation, naming, deleting Store to internal Flash (C:\) or USB ThumbDrive Copy between USB and C:\
File Manager:	StereoProbe®, ShadowProbe® and Comparison Provides user defined guided inspection Creates DICONDE compatible inspection files Creates MS Word™ compatible inspection reports PC compatible (.AAC) file format
Measurements:	Invert, Zoom (5X digital) Image Capture and Recall Continuous (5.0X)
MDI Software (optional):	Bitmap (.BMP), JPEG (.JPG) MPEG 4
Audio Data:	Built-in full screen text overlay generator Supports international language character sets 100 text line capacity
Image Control:	User placement of arrows "Steer & Stay" articulation lock/fine articulation Tip "Home" return to neutral forward-tip orientation
Digital Zoom:	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
Image Formats:	Field updateable via USB ThumbDrive
Video Format:	English, Spanish, French, German, Italian, Russian, Japanese, Korean, Portuguese, Chinese, Polish
Text Annotation:	
Graphic Annotation:	
Articulation Control:	
Software Updates:	
Languages:	

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)		
6.2 mm (0.244 in)		3.2 m (10.5 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)	

Technical 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 #	6.2 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	BLACK ●	100°	5-120 mm (0.20-4.72 in)		PXT5100FG			
FORWARD OBLIQUE	PURPLE ●	50°	12-80 mm (0.47-3.15 in)			XLG3T6150FB		
FORWARD	NONE ☒	40°	100 mm (3.94 in)-infinity				PXT6240FF	
FORWARD	YELLOW ●	120°	25 mm (0.98 in)-infinity				PXT62120FF	
FORWARD	BLACK ●	120°	4-190 mm (0.16-7.48 in.)				PXT62120FN	
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)		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	GREEN ●	80°	18 mm (0.71 in) - infinity				PXT6280SF	
SIDE	BLUE ●	80°	5 mm (0.20 in) - infinity				PXT62120SN	
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
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	PXTM626060FG	
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)				PXTM626060SG	
SIDE	BLUE ●	60°/60°	4-50 mm (0.16-1.97 in)					XLG3TM846060SG

*FOV is specified diagonally.

**Indicates tips with maximum brightness.



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