

GE
Measurement & Control Solutions

XLG3™ VideoProbe®

Inspection Technologies

Productivity Tool

The 6.2 mm diameter XLG3 VideoProbe system features an internal working channel and a full suite of working tools, making it the most complete foreign object debris (FOD) retrieval system in the industry.



Retrieval Tools

Loose parts and foreign objects stuck inside piping or other confined spaces can cause serious damage to manufacturing, process and power generation systems. These specialized tools provide significant cost-savings by minimizing downtime and eliminating the need for additional equipment.

We offer a complete line of external and internal retrieval tools for foreign object removal in hard-to-reach areas - no disassembly required.

Menu Directed Inspection (MDI)

MDI software automatically annotates saved images, intelligently names files and creates Microsoft Word® compatible inspection reports



QuickChange™ Probes

With its interchangeable QuickChange probes, the XLG3 system quickly reconfigures probe diameter and length for maximum productivity. Probes come in 3.9 mm, 5.0 mm, 6.1 mm, 6.2 mm and 8.4 mm diameters and are built for increased durability with:

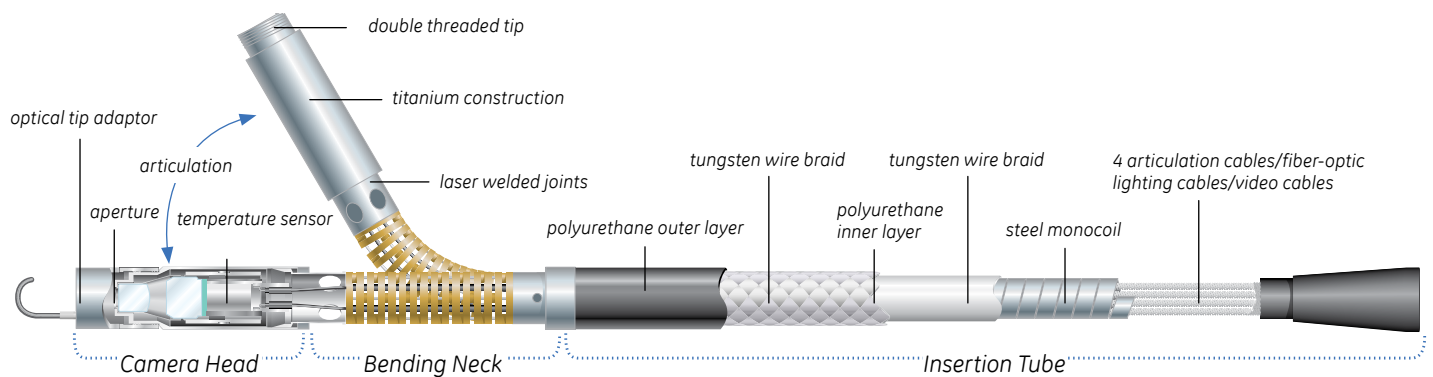
- Titanium camera head that is 8 times stronger than older designs
- Bending neck seams that are laser-weld to strengthen critical joints
- 6.1 mm, 6.2 mm and 8.4 mm probes are built with a double tungsten braid insertion tube for added crush resistance

System

The base unit is a portable workstation for inspection data management, plus light source and storage reel for the probe. The unit features:

- 2.7GB (standard) internal CompactFlash® card
- 3 USB 2.0 ports
- 10/100 Ethernet port for PC with optional Internet connection
- Optional battery/UPS pack in one- or two-hour capacities
- One CompactFlash card slot that accept memory
- User configurable NTSC/PAL video format selection
- Optional internal Wi-Fi card

Superior All-Way® Articulation, Durability and Probe Options



Note: Illustration is not drawn to scale.

CAMERA DIAMETER	INSERTION TUBE WORKING LENGTH
6.2 mm (0.24 in)	3.2 m (10.5 ft)

Features

- A:** *Extra-bright, sharp, wide VGA monitor delivers crisp images of inspection areas*
- B:** *Ergonomic handset provides one-handed operation with intuitive joystick articulation, large control buttons, built-in microphone, impact absorbing rubber bumpers and high-resolution, shock-mounted, color LCD monitor*
- C:** *Probe storage reel protects probe from damage*
- D:** *Optional DVD/CD read/write drive*
- E:** *Enhanced connectivity including USB 2.0 and Ethernet ports for file transfer, networking and Internet connection, S-Video inputs and outputs, plus VGA PC monitor output for external display*

- F:** *Optional battery/UPS pack with one- or two-hour batteries – batteries charge when attached to system or off-system with an external charger*
- G:** *One CompactFlash® card slot accept Type II CompactFlash memory card*

- H:** *Base unit acts as a portable workstation for inspection data management plus light source and storage reel for the probe*
- I:** *6.2 mm diameter probe*

Note: Network and Internet connection are optional software.



Technical Specifications

Tip/Lens Options

*FOV is specified diagonally.

TIP VIEW	TIP COLOR		FIELD OF VIEW (FOV)*	DEPTH OF FIELD (DOF)	6.2 mm Ø PROBE TIP PART NUMBER
Standard Tip Optics					
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
SIDE	GREEN	■	80°	18 mm (0.71 in.) – infinity	PXT6280SF
SIDE	BLUE	■	120°	5 mm (0.20 in.) – infinity	PXT62120SN
StereoProbe® Measurement Tip Optics					
FORWARD	BLACK	■	60°/60°	4 mm (0.16 in.) – 80 mm (3.15 in.)	PXTM626060FG
SIDE	BLUE	■	60°/60°	4 mm (0.16 in.) – 80 mm (3.15 in.)	PXTM626060SG

Technical Specifications

System

Case Dimensions:	
Standard:	54.6 x 49.5 x 32.0 cm (21.5 x 19.5 x 12.6 in)
Tall:	54.6 x 60.9 x 32.0 cm (21.5 x 24 x 12.6 in)
Weight:	
In Case:	21.8 kg (48 lb)
Without Case:	10.9 kg (24 lb)

Handset

Dimensions:	39 x 18 x 13 cm (15.4 x 7.1 x 5.1 in)
Weight:	1.81 kg (3.98 lb)
Construction:	Polycarbonate housing with integrated elastomer bumpers
LCD:	16.3 cm (6.4 in) diagonal, 16 x 9 aspect ratio, 800 x 480 pixels, wide VGA
LCD Brightness:	380 nits (cd/m ²)
Power Tube:	2.4 m (8 ft) long
User Controls:	Joystick and complete button function set
Microphone:	Built-in microphone for audio annotation located at the top center of the handset

Base Unit

Dimensions:	44 x 22 x 35 cm (17.3 x 8.7 x 13.8 in)
Weight:	7.21 kg (15.90 lb)
Construction:	Aluminum chassis with polyurethane bumpers
System CPU:	Intel Pentium® M
Video Processors:	Multiple digital signal processors
Brightness Control:	Automatic and variable, adjustable auto gain and exposure
System Memory:	Internal CompactFlash® card, 2.7GB (standard)
Lamp Type:	75W High Intensity Discharge (HID)
Lamp Output:	4300 Lumens
Lamp Life:	1000 hour median
Keyboard Input:	USB keyboard with built-in trackball
Video Outputs:	Switchable NTSC/PAL S-Video, Standard 15-pin PC video connector
Video Input:	Auto detecting NTSC/PAL S-Video
USB:	Three external USB 2.0 ports
Ethernet:	Integrated 10/100 Ethernet port
CompactFlash:	One CompactFlash card (Type II) slot
AC Input:	AC Nominal input: 100 to 240 V, 50 to 60 Hz; 115 V, 400 Hz; 275 W max
AC Output:	100 W max; IEC320-2-2 Type F connector
AC Fuse:	6.3A, 250V, fast acting
DC Input:	11 to 15 VDC; nominal 12 VDC; 150 W max
DC Fuse:	20A, 600 VDC, fast acting
Audio Output Connectors:	Built-in front panel speaker, 3.5 mm stereo line level out, 2V RMS max, 3.5 mm stereo headphone
Audio Input Connector:	3.5 mm microphone

Tip Articulation

Insertion Tube Length	Straight Tube	One Loop
3.2 m	Up/Down – 150° min Left/Right – 150° min	Up/Down – 120° min, Left/Right – 120° min

Note: Typical articulation exceeds minimum specifications

QuickChange™ Probes

6.1 mm (0.242 in), 5.0 mm (0.197 in) and 8.4 mm (0.331 in) Diameter Probes

Image Sensor:	1/6" Color SUPER HAD CCD®
Pixel Count:	440,000 pixels
Temperature Sensor:	Integrated Temperature Warning System
Camera Housing:	Titanium
Articulation:	360° All-Way®
Tip Optics:	Double threaded attachment

3.9 mm (0.154 in) and 6.2 mm (0.244 in) Diameter Probes

Image Sensor:	1/10" Color, SUPER HAD CCD
Pixel Count:	290,000 pixels
Camera Housing:	Titanium
Articulation:	360° All-Way
Tip Optics:	Double threaded attachment

Operating Environment

System Operating Temp:	-4° to 115°F (-20° to 46°C) LCD requires warm-up period below 32°F (0°C)
Tip Operating Temp:	-13° to 176°F (-25° to 80°C) Reduced articulation below 32°F (0°C)
Storage Temperature:	-13° to 140°F (-25° to 60°C)
Relative Humidity:	95% max, non condensing
Waterproof:	Insertion tubes are watertight to 1 bar (14.5 psig, 10.2 m [33.5 ft] of H ₂ O)
Hazardous Environments:	Not rated for use in hazardous environments

Software

Operating System:	Multitasking with desktop software options
User Interface:	Drop-down menu driven operation, joystick, and keypad
File Manager:	File and folder creation, naming, copying and deleting
Measurements:	StereoProbe®, ShadowProbe® and Comparison
MDI Software (optional):	Provides user defined guided inspection Creates DICONDE compatible inspection files Creates MS Word™ compatible inspection reports PC compatible, 15 second files (WAV or MP3 format). PCM audio with MPEG2 video recordings
Audio Data:	Adjustable brightness, 1/10,000 sec to 12 sec exposure. Left/Right invert for side-view tip correction. Freeze frame, live/still Inverse+ enhancement, side-by-side split screen
Image Controls:	1X to 3X – Continuous and 5-level stepped
Digital Zoom:	2.7GB internal, user-supplied external
User Available Memory:	Text and arrow overlays and custom logos
Annotation:	360° All-Way® steering, Steer-and-Stay™, Home
Articulation Controls:	On/Off, menu-controlled
Lamp Control:	Field upgradeable via removable media
Software Updates:	Integrated camera and base unit temperature warning systems
Temperature Warning:	DVD+R, DVD-R, still images, audio clips, MPEG2 video and PCM audio real-time recording
DVD writing:	

Languages

Chinese, Czech, English, French, Japanese, Spanish, Russian, German, Italian, Portuguese, Swedish, or factory supplied custom language.



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