

GE  
Inspection Technologies


# Everest XLG3™ VideoProbe®

Remote Visual Inspection



## Versatile Tool Drives Inspection Productivity

The Everest XLG3™ VideoProbe® system – today's most revolutionary remote visual inspection (RVI) tool – provides significantly improved inspection capabilities to boost productivity in your operations. With a host of advanced features, such as QuickChange™ probes that quickly reconfigure probe diameter and length and real-time communications for collaboration during live inspections, the Everest XLG3 VideoProbe system delivers the versatility you need for fast, efficient, and accurate decision making.



The XLG3 VideoProbe system is the third generation of the XL VideoProbe family, built on 22 years of RVI knowledge and experience.

# Versatile Features Streamline Inspection

With new, versatile features to speed the inspection process, the Everest XLG3 VideoProbe system dramatically reduces inspection and post-inspection time and increases productivity. Bright, sharp inspection images jump from the high-resolution screen for faster defect identification and can be routed to remote offices for critical, time-sensitive evaluations and improved decision making on the spot. Create final inspection reports on-board and immediately write to DVD to increase efficiency.



### USB 2.0 Port

Save images to a flash drive for fast data transfer



### DVD/CD Drive\*

Read or write inspection data in real-time to the on-board DVD/CD drive



### Ethernet Port

Connect to the Internet\* to view product or maintenance manuals or send report and image data via email



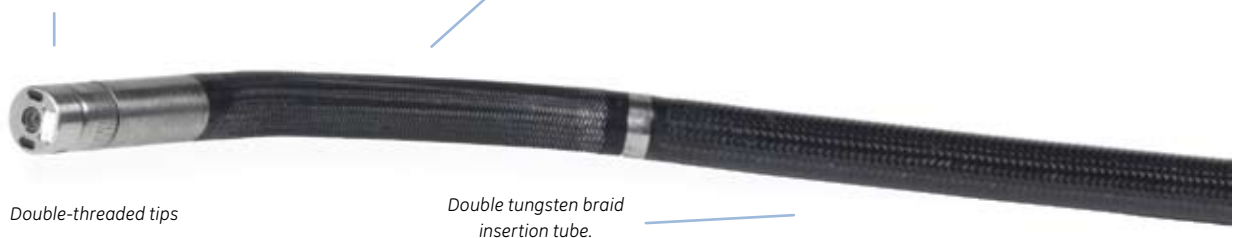
### Remote Control\*

Remote control with joystick



*Titanium camera head is 8 times stronger than previous generation video borescopes*

*Laser-welded bending neck seam*



*Double-threaded tips*

*Double tungsten braid insertion tube.*

**Note:** 6.1 mm Ø probe shown 2:1 scale

\* Optional feature or accessory

# Advanced Features, Improved Inspection

A

B

**A:** All-Way® articulation and high-output illumination deliver sharp, clear images for critical decision making

**B:** High-resolution wide VGA LCD screen delivers incredibly sharp, bright images

**C:** Remote control\* allows hands-free control of handset functions

F

**D:** Shipping, storage and inspection case protects Everest XLG3™ VideoProbe® system from transport damage and doubles as an operations station

**E:** System accessories store in case lids or in extended case (D)

**F:** Control buttons, multi-function joystick provide full system control through the handset

C

E

D



\* Optional accessory

**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:** *Two PC card slots accept memory and communication cards*

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

**Note:** *Network and Internet connection are optional software.*





# Maximize Performance

Timely and efficient inspections keep aircraft flying. Whether completing a turbine engine inspection, measuring a blade defect, capturing and storing images, or looking for wear, corrosion or cracks on an airframe, the Everest XLG3 system delivers sharp, clear images needed to quickly identify and measure defects to determine air-worthiness.

## Interchangeable Probes

The Everest XLG3 system features interchangeable QuickChange™ probes that quickly reconfigure to meet aircraft maintenance manual requirements for probe diameter and length.



Borescope adapter to integrate user's current rigid and flexible borescope.



## Measurement or Remote Collaboration

Use stereo or shadow measurement techniques on the XLG3 system or in a remote office. With its ability to manage inspection data and capture, store and transmit images via Internet\*, the Everest XLG3 system enables real-time communications between inspectors and remote team members.



## Versatile Features for Aerospace

- Interchangeable probes and multi-probe kits
- Bright, crisp images for fast defect identification
- Stereo and shadow measurement
- Upload to a network for remote confirmation\*
- Integral battery/UPS option for flight line use\*

\* Optional feature



## Reduce Downtime

When plant equipment is idled for refractory lining inspection, in-service weld inspection, and ongoing maintenance, timely inspection is vital to resume operations. The Everest XLG3 system streamlines inspection to get systems up and running quickly.

Setting up and searching for power drops and routing cords can take longer than the actual inspection. Report-writing back in the office can also consume hours each day. The Everest XLG3 system with optional battery power eliminates the need for worksite power. And with real-time DVD writing and portable workstation features, reports can be generated during the inspection.

The Everest XLG3 system gets you up and working quickly and QuickChange™ probes allow you to change probe diameter and length in the field to meet varying inspection demands.



### Sophisticated Yet Easy to Use

An on-screen, drop-down menu guides the user through the system's versatile options.

### On-Board File Manager

The file manager lets you create, move and store files between folders in internal or external memory.

### Versatile Features for Process

- Intuitive and easy to use
- High-resolution, wide VGA LCD screen
- Portable
- Up and running quickly



## Go Portable

Whether climbing atop a combustion turbine, into a boiler penthouse or up to a wind turbine gearbox, power generation industry inspections are demanding and physically challenging, making equipment portability important. The Everest XLG3 system is designed to be carried to any inspection site and sit securely in tight spots.

### Portability and Convenience

Move freely – remove the unit from the case, carry it conveniently and use the system for up to two hours with the attachable battery/UPS. An integrated storage reel for the probe and a nested handle for the handset enhance the portability and safety of the Everest XLG3 system.

#### Versatile Features for Power Generation

- Compact portable package
- 2x light output improves visibility in large areas
- One-hour or two-hour capacity battery/UPS option
- Rugged tool for tough environments
- Adaptable probe lengths from 2 to 8 meters



One- or two-hour capacity battery/UPS facilitates confined space work.

### Twice the Light

Steam headers, feedwater heater shells and attemporators have large, dark spaces to navigate and inspect. The Everest XLG3 system delivers twice the light output as previous generation video borescopes to provide clear, bright images.





# Boost Inspection Efficiency

The versatility of the Everest XLG3 video borescope makes it a valuable inspection tool for all facets of the automotive industry.

Pull a sparkplug and check a cylinder head using the Everest XLG3 system's small, flexible probe. With interchangeable QuickChange™ probes you can quickly reconfigure probe diameter and length to fit a range of automotive applications. All-Way® probe articulation allows you to access and inspect hard-to-reach locations.

R&D labs can leverage the tool's enhanced imagery and high-output lighting to generate clear, visual pictures of component fit in new auto designs. With improved lenses, digital-signal processing and an extra-bright, high-resolution, VGA LCD screen, the Everest XLG3 system delivers bright, distinct inspection images for faster defect identification. And for inspection locations that lack power, the system runs up to two hours from an integrated battery pack and uninterrupted power supply.



Inspect valve seating through the spark plug port

## Versatile Features for Automotive

- Excellent probe articulation
- 12 volt D.C. operation for on-vehicle use
- Communications to factory network



System with integrated battery

# Accessories



Rigidizers and Grippers



External SVGA LCD monitor



USB keyboard with trackball



QuickChange™ spare probes in 3.9 mm, 6.1 mm, 6.2 mm with working channel\* and 8.4 mm diameters in lengths of 2, 3, 6 and 8, and 9.6 meters

\*Future release



Wired remote control with joystick



Full range of optical tips including stereo and shadow measurement with a NIST traceable verification block



Two PC card slots for expanded memory cards



Borescope adapter for rigid and flexible borescopes and high-magnification lenses



One- or two-hour capacity battery/UPS (uninterruptible power supply)



Application software (Menu Directed Inspections and Report Generators)

## Efficiency and Performance in Remote Visual Inspection

The Everest XLG3™ VideoProbe® system is designed to meet exacting inspection needs across a range of industries. With its wide selection of optical tips, probe lengths, diameters and measurement capabilities, you can be sure that the Everest XLG3 system will handle your remote visual inspection needs efficiently and effectively every time.

For more information about how the Everest XLG3 VideoProbe system can enhance your inspection efforts, visit [www.xlg3.com](http://www.xlg3.com)

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[www.ge.com/inspectiontechnologies](http://www.ge.com/inspectiontechnologies)

**Standards Compliance**  
Every Measurement System is supplied with a Certificate of Compliance which indicates that the probe was manufactured and tested to measurement standards traceable to NIST (National Institute of Standards and Technology). Further, every Measurement System is supplied with a measurement verification block which contains test targets which are NIST traceable.



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