

VideoProbe[®] Measurement

Remote Visual Inspection

Three Measurement Options

One Compact Inspection System

Just as your inspection needs are always changing, our technology and digital imaging capabilities are always growing and adapting along with them. That's why GE Inspection Technologies has given you even more measurement capabilities. The VideoProbe[®] measurement system is the only video borescope that offers ShadowProbe[®], StereoProbe[®], and Comparison measurement capability, so you are able to employ the measurement technology that best suits your inspection needs.

Measurement Features

- Quickly change measurement tip optics to perform StereoProbe, ShadowProbe or Comparison-based measurements
- Accurately measure features and defects on a wide range of inspection targets
- Measurement Zoom windows for accurate cursor placement
- Perform multiple measurements on a single image
- Perform different measurement types in Stereo, Shadow and Comparison-based measurement modes
- Accuracy Index and match strength feedback provided on-screen
- Save images with calibrated tip data for future re-measurement of any size, dimension, distance or depth on iVIEW™ PC (PC re-measurement software)
- Measurement results in millimeters or inches



We have your answer

With our complete measurement technology offering, you'll have every means possible to get the clearest, most precise assessment during critical inspections. Exact measurement ensures that you're able to pinpoint the problem the first time, saving you time and money.

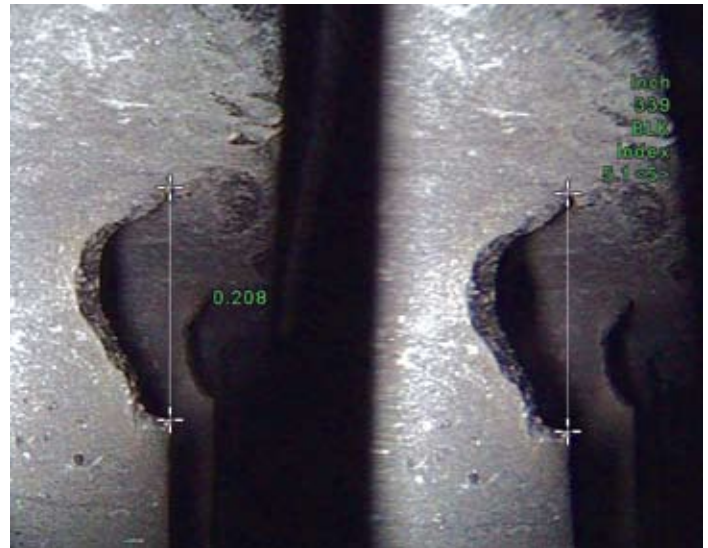
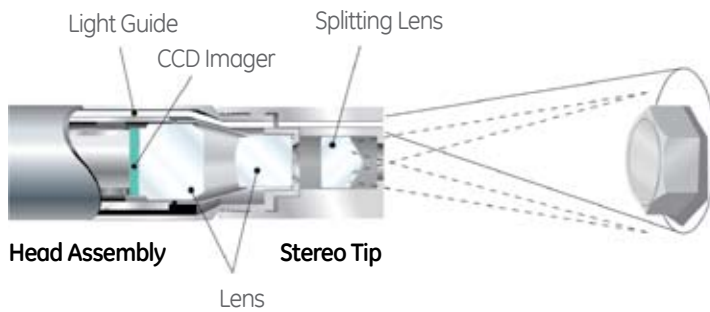


StereoProbe® Measurement

How it works

The VideoProbe® system's StereoProbe technology uses a prism to split images, allowing the camera to capture left and right views with a precise angle of separation. The StereoProbe computer algorithm analyzes the position of user-placed cursors, applies a triangulation geometry calculation and returns the most accurate measurements.

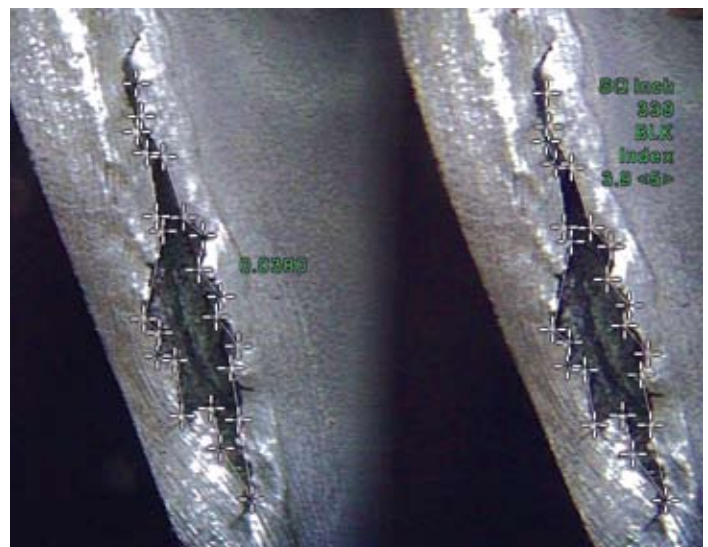
StereoProbe Technology



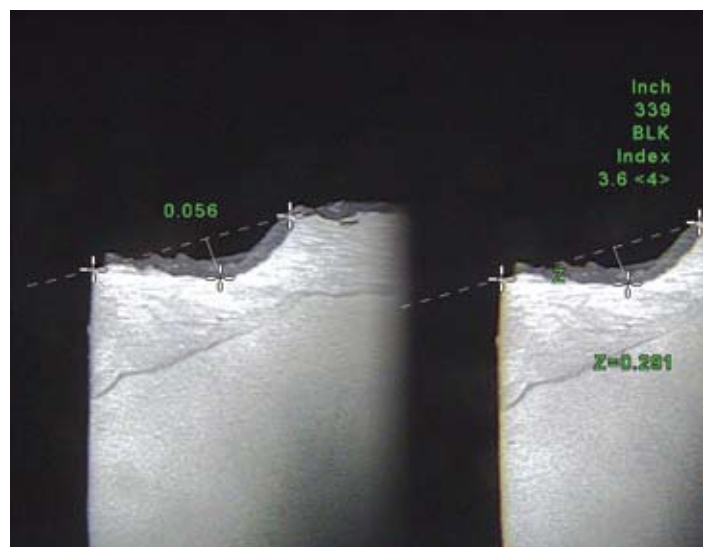
StereoProbe length measurement

StereoProbe system features

- An exact measurement technology for curved and skewed edges
- A cursor position "Match" strength indicator and an overall "Accuracy Index."
- 5 types of StereoProbe measurement:
 1. Length
 2. Depth
 3. Point-to-Line
 4. Area
 5. Multi-Segment Length



StereoProbe area measurement



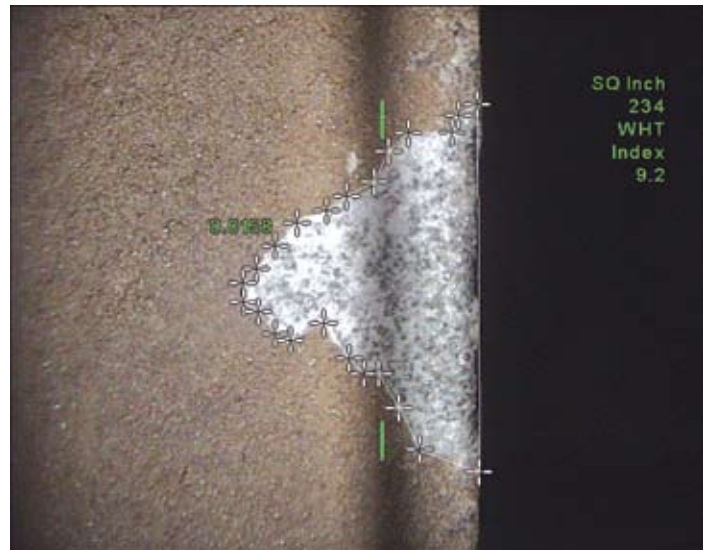
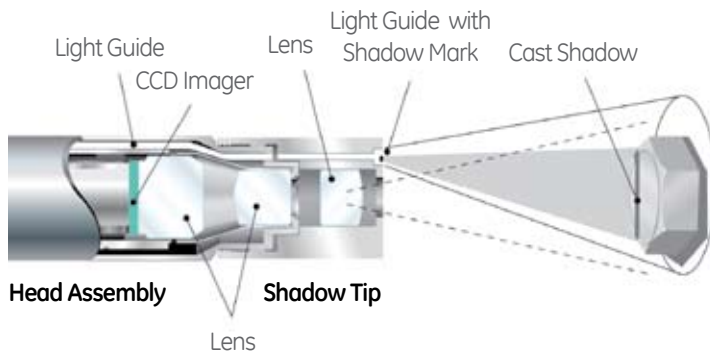
StereoProbe point-to-line measurement

ShadowProbe® Measurement

How it works

The VideoProbe® system's ShadowProbe measurement system is based on a shadow triangulation of tip-to-target distance. The VideoProbe system's ShadowProbe projects a shadow across an inspection image. The position of the shadow in the image indicates the distance to the object. With this information, the system can calculate the size of user selected features or defects providing accurate measurement value.

ShadowProbe Technology



ShadowProbe multi-segment length measurement

ShadowProbe system features

- Patented Shadow Technology for accurate measurement
- Measure any point in the inspection image when the tip is perpendicular to that image
- 7 types of ShadowProbe measurement:
 1. Distance
 2. Skew
 3. Depth
 4. Point-to-Line
 5. Area
 6. Multi-Segment Length
 7. Circle Gauge



ShadowProbe depth measurement



ShadowProbe skew measurement

Comparison Measurement

How it works

The VideoProbe® system's Comparison-based measurement system is based on a known reference dimension in the inspection image (often set in place by the manufacturer, or introduced with the probe) to measure other objects in the same view and plane.

- Available on Advanced and Measurement Systems
- Measure even without Stereo or Shadow measurement tip optics
- 5 types of Comparison-based measurement: Length, Multi-Segment Length, Area, Point-to-Line, Circle Gauge

PC Re-measurement

Rhythm® Review Re-Measurement

Rhythm Review Re-Measurement module is a plug-in within Rhythm Review that allow users to view and re-measure any type of measurement image as long as the image was saved with measurement data using a GE video borescope. This is just one of the numerous features available with the Rhythm Software platform, in addition to data management, advanced report generation and archiving. Contact your sales representative for more information.

iVIEW™ PC Re-Measurement

iVIEW PC is a software that allows a user to view and re-measure any type of measurement image as long as the image was saved with measurement data using a GE video borescope. Annotation and simple report generation are available. Contact your sales representative or customer care to obtain a copy.

XLG3 and XL Go VideoProbe Measurement 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 #
ShadowProbe® Measurement Tips								
FORWARD	WHITE	○	50°					XLG3TM6150FG
SIDE	BLUE	●	50°					XLG3TM6150SG
StereoProbe® Measurement Tips								
FORWARD	BLACK	●	50°/50°	PXTM45050FG				
FORWARD	BLACK	●	60°/60°		PXTM56060FG			
FORWARD	BLACK	●	60°/60°			XLG3TM616060FG	PXTM626060FG	
FORWARD	BLACK	●	60°/60°					XLG3TM846060FG
SIDE	BLUE	●	50°/50°	PXTM45050SG				
SIDE	BLUE	●	45°/45°		PXTM54545SG			
SIDE	BLUE	●	50°/50°			XLG3TM615050SG		
SIDE	BLUE	●	60°/60°				PXTM626060SG	
SIDE	BLUE	●	60°/60°					XLG3TM846060SG

*FOV is specified diagonally.

**Indicates tips with maximum brightness.



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