

Opti-mize HE Pro 3D

High-End 3D Measurement Video Borescope

- Precision inspections.
- Advanced 3D measurements.
- Reliable results.



3D Measurement



HD Image Quality



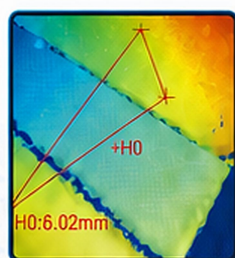
Interchangeable Probes



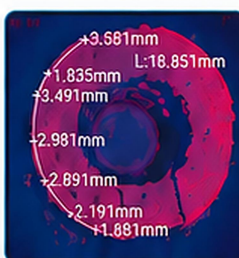
360° Joystick Articulation

Advanced 3D inspections made easy

The Opti-mize HE Pro 3D combines HD visual inspection with advanced stereo 3D measurement. Designed for demanding industrial inspections, it helps users detect, analyze and document defects quickly and accurately.



3D depth cloud map



Precise measurement



HD inspection imaging



Key benefits



6.5 inch HD
touchscreen



Precise 3D scanning
measurement



Rich 3D
depth cloud map



High-definition
binocular imaging

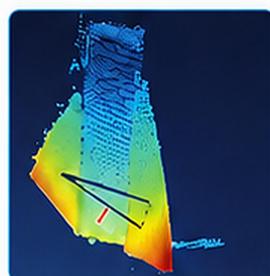


Real-time object distance
and dimension measurement



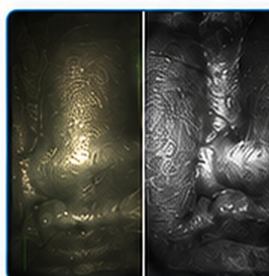
Clear and intuitive
operation

Smart operating tools



One-click 3D modeling

Generate accurate 3D models instantly for intuitive analysis.



Negative enhancement display

Enhance details and highlight defects for clearer inspection.



Picture-in-picture screen view

View details while keeping the bigger picture in sight.



Desktop common function icons

Quick access to essential functions for efficient work.

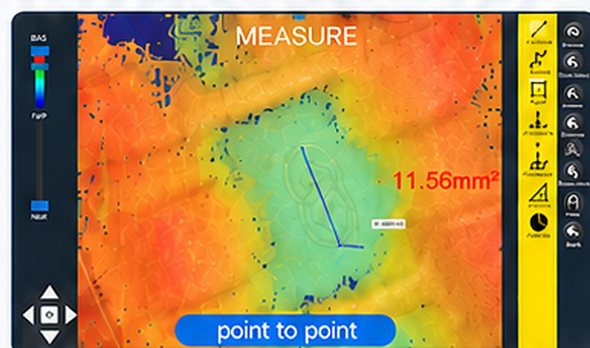
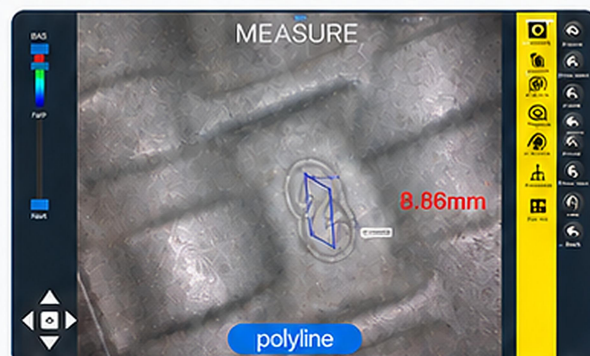
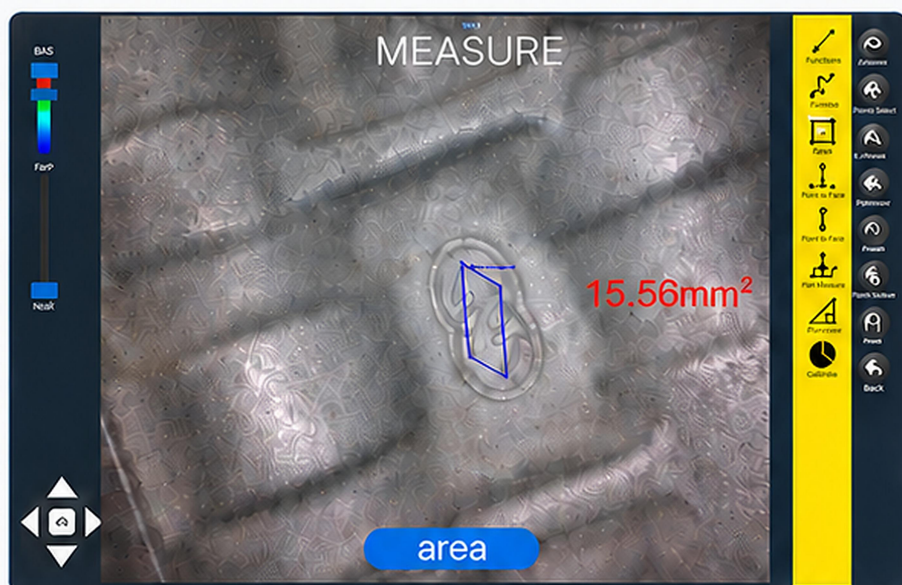


Watermark addition

Add custom watermarks to images for easy documentation.

Measure with confidence

Advanced stereo 3D measurement tools enable fast, repeatable and accurate defect analysis. Capture visual evidence, evaluate geometry and create professional reports with ease.



Available measurement functions

Point-to-Point Measure distance between two points.	Point-to-Line Measure perpendicular distance to a line.	Polyline Measure multi-segment lengths.	Area Measure enclosed area.	Point-to-Face Measure distance to a surface.	Height / Depth Measure height or depth difference.
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Additional viewing and analysis tools

3D View Render and explore 3D point cloud.	Revise View Review captured measurements.	Measure List Organize and manage measurement data.	Crevice View Enhance visibility in deep or narrow areas.	Split Screen Compare views side by side.	Part View Isolate and inspect specific regions.
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Outstanding image quality

HD live video Sharp, smooth and detailed live imaging.	High-brightness LED illumination Bright, even lighting for clearer inspections.	Image enhancement Enhance contrast and reveal fine details.	Photo & video recording Capture stills and videos as visual evidence.	USB export Export data and reports quickly and securely.
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Specifications & accessories

Precision you can measure. Performance you can rely on.

SPECIFICATIONS

	3.9 mm probe	6.0 mm probe
Probe diameter	3.9 mm	6.0 mm
Pixels	500,000	1,000,000
DOF	5–50 mm	8–80 mm
FOV	120°	
Direction of view	0° or 90°	
Available probe lengths	2 m, 3 m	2 m, 3 m, 6 m, 10 m
Cable surface layer	Tungsten braided	
Bending angle	>120°	
Control mode	Motor driven joystick control	
Light source	LED	
Lighting life	100,000 hours	
Temperature sensor	Built-in	
LCD size	6.5 inch touch screen	
Controller size (L × W × H)	351 × 163 × 122 mm	
Controller interface	HDMI, USB 3.0	
System memory	Built-in 4 GB	
Memory medium	128 GB SSD	
Image control	Brightness, Saturation, Contrast, Hue	
Still image record	1280 × 720 JPEG / BMP	
Video recording	1280 × 720 AVI / ASF	
Stereo measurement	Point-to-point, point-to-line, point-to-surface / point-to-face and curve or polyline measurement	
Data output	Supports USB drive export	
Ingress protection	IP65	

SAFETY CASE



MODULAR PROBES



CONTROLLER REAR INTERFACE



JOYSTICK CONTROL



BATTERY



STANDARD ACCESSORIES



Battery



HDMI cable



Belt



Wiping cloth



Power supply



Measurement calibration



Safety case

TYPICAL APPLICATIONS



Aerospace



Aircraft engines



Aircraft manufacturing



Automotive



Power generation



Petrochemical



Shipbuilding



Construction