VIEWTECH BORESCOPES

VJ-4 ARTICULATING VIDEO BORESCOPE

3D MEASUREMENT



3D MEASUREMENT VJ-4 OVERVIEW

Designed to enhance inspection accuracy and efficiency. The 3D Measurement VJ-4 Video Borescope allows users to capture precise measurements in real time, enableng more informed maintenance decisions across a range of applications.

6.0mm **3.9mm** **FV FRONT-VIEW** **SV SIDE-VIEW**

The new 3D Video Borescope is now available in 6.0mm, 3.9mm, Front-View & Side-View configurations.

Length | Point to line | Depth | Multi-Segment | Area | Depth Profile | Angle | Surface Angle

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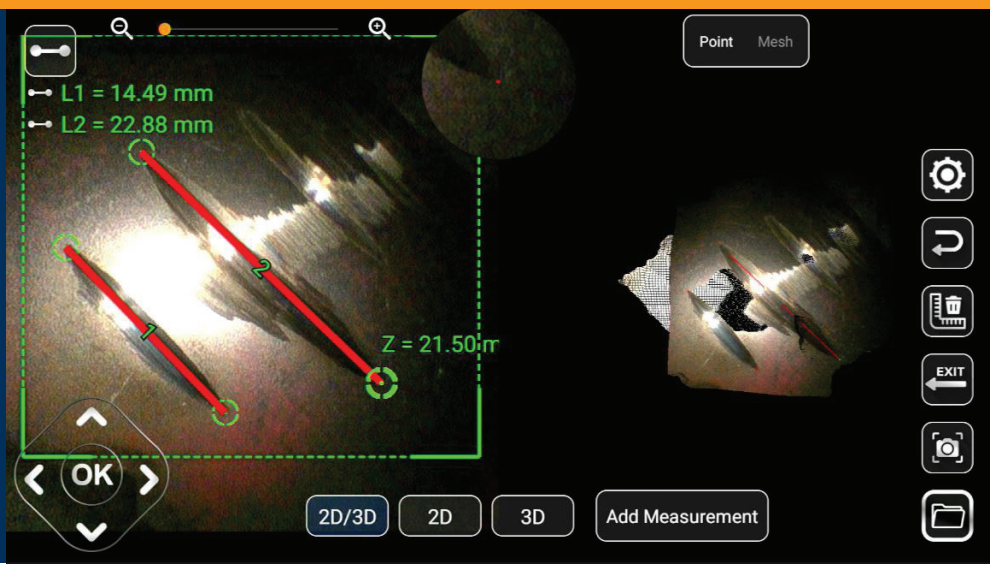
LENGTH

Measures the straight line distance between two points. Ideal for reliable sizing cracks, features, or wear patterns.

Example Use Cases

- Linear defect lengths (i.e. cracks)
- Characterize the size and location of foreign material inside a confined space or defects on a part
- Assessing size of remaining witness marks
- Tracking wear progression from corrosion, wear, expansion, or erosion

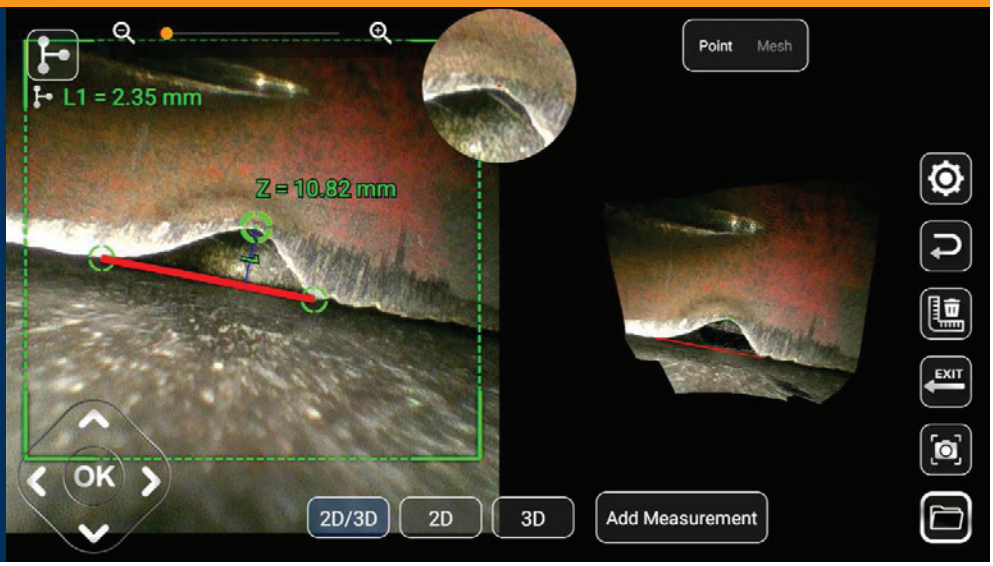


POINT-TO-LINE

Measures the distance from a line to a selected point. Perfect for blade edge damage, gap width, and weld width. The perpendicular measurement method ensures consistent results even when working on angled or irregular surfaces.

Example Use Cases

- Width of a discontinuity along a blade edge
- Dimensional span of a gap, groove, or weld profile

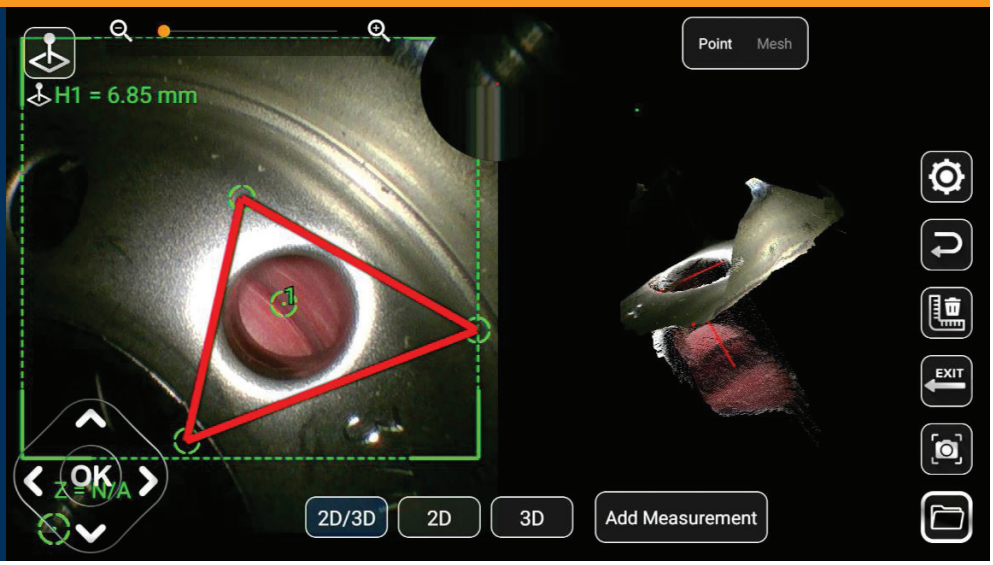


DEPTH

Measures the distance from a reference plane to a selected point. Whether assessing corrosion, dents, or weld height, depth measurement provides a clear understanding of how far a feature extends above or below a reference surface.

Example Use Cases

- Depth of an isolated corrosion or erosion pit
- Extent of FOD impact damage on a component surface
- Height deviation of a weld crown or wear groove

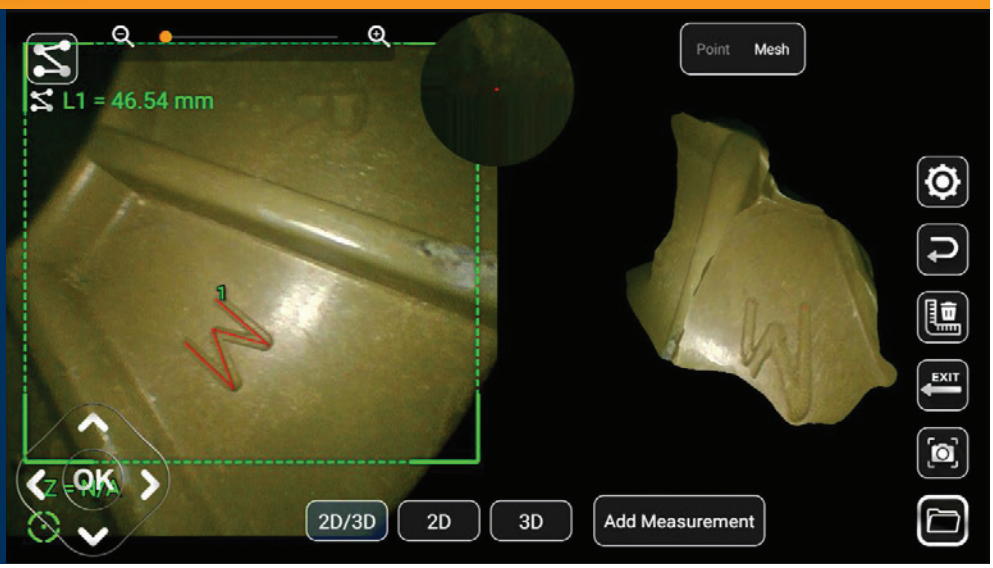


MULTI-SEGMENT

Calculates the total length along an irregular path. By placing multiple cursors along the feature of interest, this tool measures the true geometry of any discontinuity that changes direction.

Example Use Cases

- Total length of irregular surface
- Total length of a jagged crack

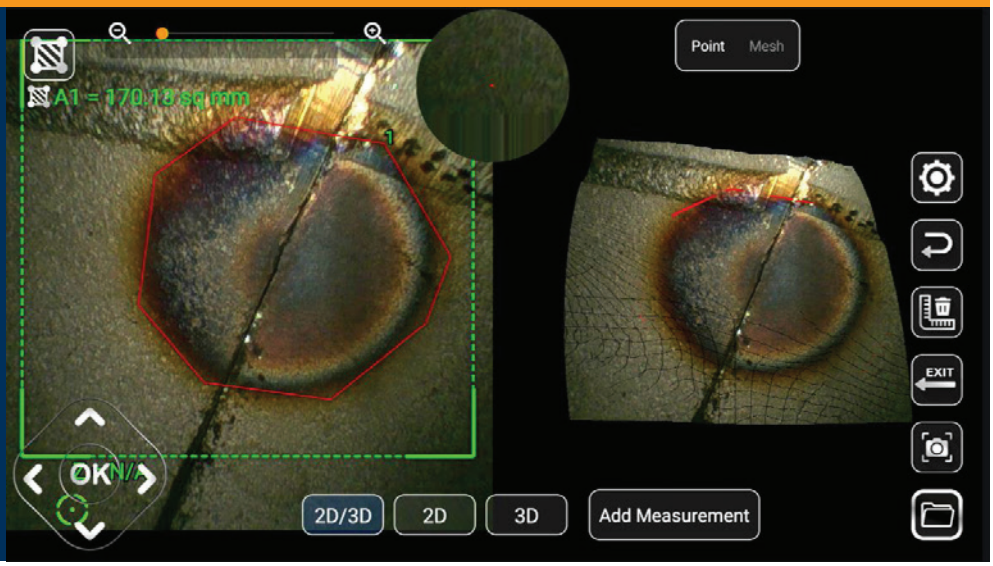


AREA

Measures the planar surface area of a feature by outlining its boundary with multiple cursor points. Area measurement provides a quantifiable, two-dimensional representation of the surface area damage or material area loss.

Example Use Cases

- Extent of coating loss on a component surface
- Total surface area of a corrosion or pitting field

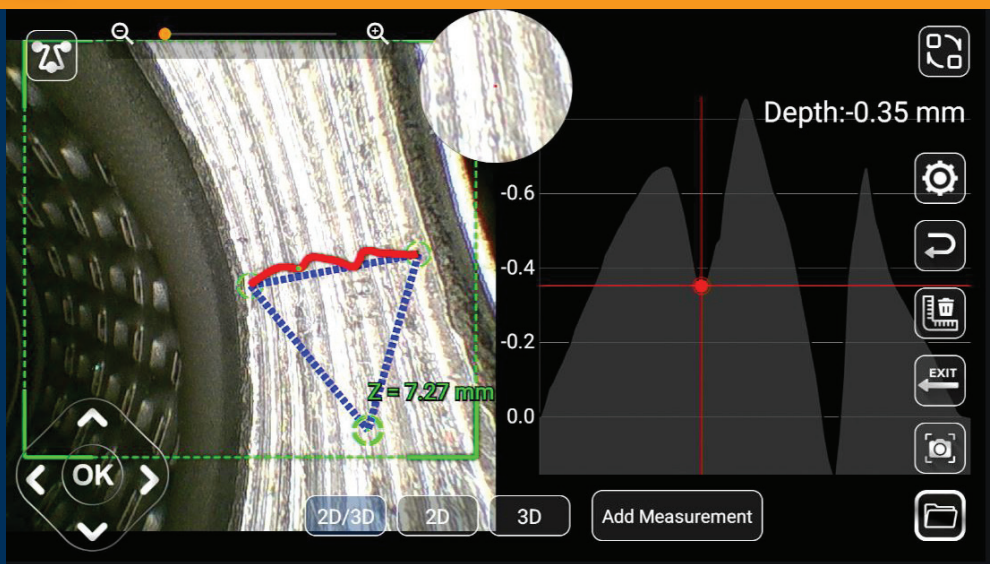


DEPTH PROFILE

Generates a cross-sectional map of surface variation, identifying the highest and lowest points relative to a reference plane. Ideal for visualizing and quantifying subtle or complex surface geometry.

Example Use Cases

- Cross-sectional profile of a corrosion or erosion pit
- Surface deviation along a weld or wear groove

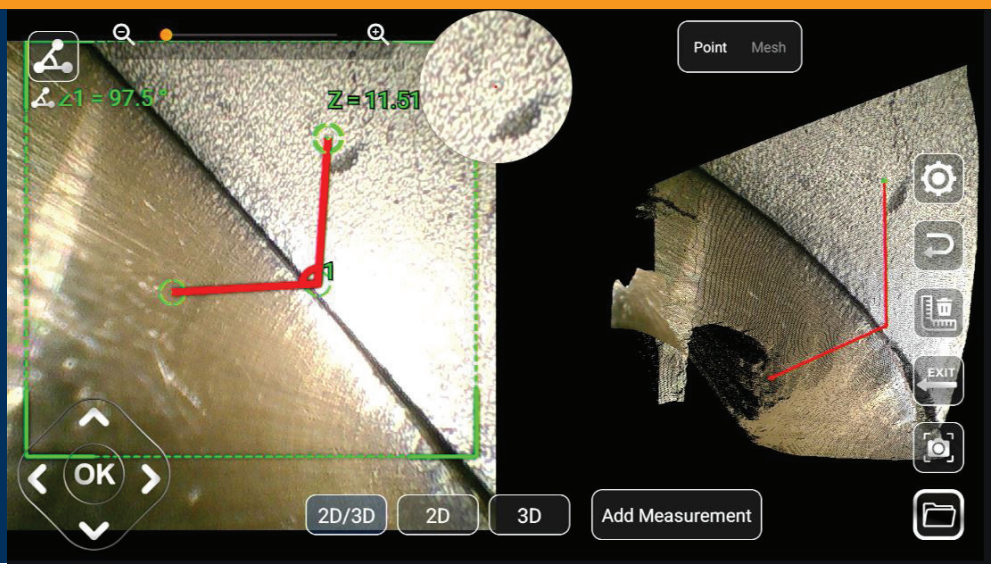


ANGLE

Measures the three-dimensional angle between two lines defined by three user-placed points on a surface. Ideal for assessing angular relationships on flat or complex geometry.

Example Use Cases

- Erosion angle of a wear surface on a turbine blade or vane platform
- Angular measurement of material loss on an oil and gas chute or valve seat

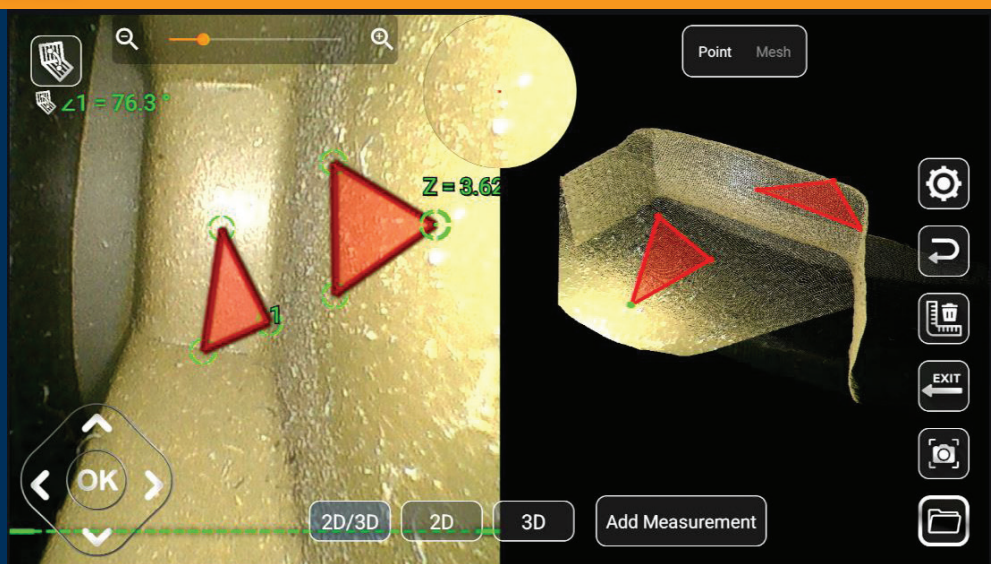


SURFACE ANGLE

Measures the three-dimensional angle between two user-defined planes, each determined by three cursor points. Ideal for quantifying the angular relationship between two adjoining surfaces.

Example Use Cases

- Bend angle of a deformed or impacted structural component



VIEWTECH BORESCOPES

VJ-4 ARTICULATING VIDEO BORESCOPE

RUGGEDIZED CASE & ACCESSORIES INCLUDED



FULL ONE-YEAR VIEWTECH BORESCOPES WARRANTY



Industry First Mini-Joysticks

Engineered for efficiency, the mini-joysticks allow access to all menus and settings for true one-hand operation.



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Quickly turn your inspection pictures into professional printed or digital repoerts. Included with the purchase of the VJ-4.