

Yateks Realta 3D

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Yateks Realta 3D Industrial Video Borescope Quick Guide

INTERTEST



Yateks

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Button Function

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Quick Guide | Main User Interface Yateks USA





- To perform the 3D measurement, open both left and right views.
- Adjust he endoscope light so that the image quality is adequate.
- Make sure the region of interest (ROI) is within the effective measurement area.
- Press the **3D Measurement** button to perform the measurement.
- The left view (LV) is the 2D image with depth information overlaid using pseudo-color.
- The right view (RV) is the 3D reconstruction of the surface. Users can switch between point cloud and 3D mesh.
- 3D mesh data can be exported by pressing the Export Ply button.
- Press the **Add** button to select • various measurement modes.

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• Three view modes; **Default** (both 2D/3D), **2D image**, **3D image**.



View Mode UI

2D Image Mode

3D Image Mode

• Six different measurement modes:



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1. Point-to-Point:





- Add the first point. Use the arrow buttons and the magnifier to adjust the point location precisely. Press OK to confirm.
- Add the second point.
- The distance between two points will automatically tabulate.
- Undo and delete measurements are also supported.

- First, add two points (P1, P2) to determine a line.
- Add a third point P3.
- The distance between P3 and line P1-P2 will be computed.

2. Point-to-Line:



3. Point-to-Plane:





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- First, add three points (P1, P2, P3) to determine a plane.
- Add a fourth point P4.
- The distance between P4 and the plane (P1-P2-P3) will be computed.

4. Line Segment Measurement:





- Add a sequence of points (P1, P2, P3, ...).
- The total length of the segments determined by the sequence of points will be computed.

5. Area Measurement:





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- Add a sequence of points (P1, P2, P3, ...).
- The point sequence produces a triangle.
- The total area of the triangle will be computed.

6. Profile:





- Add two points P1 and P2.
- The surface curve connecting P1 and P2 will be plotted.

Quick Guide



Enhanced 3d Measurements

- We have enhanced the 3D measurement module by implementing **advanced** algorithms. The algorithms can produce smoother results with less noise and more accurate measurements.
- We also retain the **basic** 3D measurement algorithms. Users can quickly switch between basic and advanced algorithms
 "Options→Enhanced 3D."

To switch to enhanced 3D measurement, first press **Options** Button. Then, press **Enhanced 3D** and select **On**.





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Thank You.

Empowering Safety and Elevating Performance

InterTest & Yateks USA bring together experts with decades of experience in remote visual inspection (RVI). We offer innovative, quality products for inspecting and maintaining mechanical parts and systems in hard-to-access places, helping customers visualize and measure technical components, systems, and installations.





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