

Mech-MSR 3D Measurement and Inspection Software

For high-precision measurement and inspection



Easy-to-Use GUI Design

Create measurement solutions with an intuitive interface and configuration tools in a fast and easy way, even for those without expert 3D vision knowledge and experience.



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Robust Measurement Algorithms

Utilize our built-in algorithms for efficient 3D measurement applications, including dimensional measurement, defect detection, object counting, and more.

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Versatile Functions for Efficient Deployment

Experience seamless end-to-end deployment using Mech-MSR, encompassing scanning, alignment, measurement, result evaluation, and easy communication with factory networks and devices.

With Mech-MSR you can

Scan

Easily connect to and run on the Mech-Eye LNX 3D sensors for easy setup and real-time data collection.

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Align

Align objects for quick positioning and ensure all are at the reference position for accurate and efficient measurement.

Measure

Solve complex 3D inspection applications, driven by robust measurement algorithms and tools.

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Evaluate

Use single-index or comprehensive evaluation methods to meet various product quality standards.

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Process

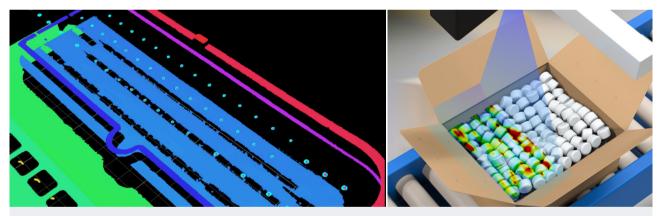
Pretreat and optimize depth images, 3D data, and other image data to create the best point clouds.

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Communicate

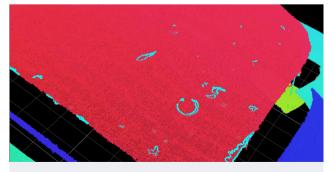
Connect PLCs and factory devices using ASCII for real-time data transmission.

How Mech-MSR makes production smart

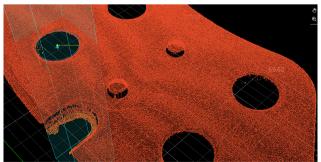


Object Counting

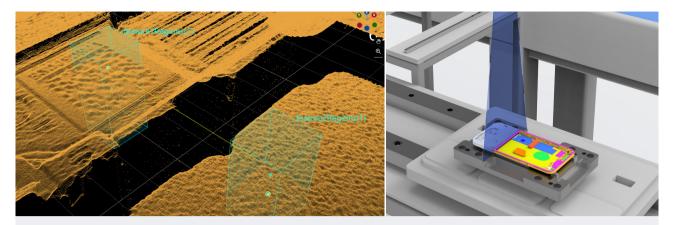
Count objects in the production line. Adapt to different sizes and shapes.



Defect Detection Detect common surface defects based on the depth image, such as dents and protrusions.

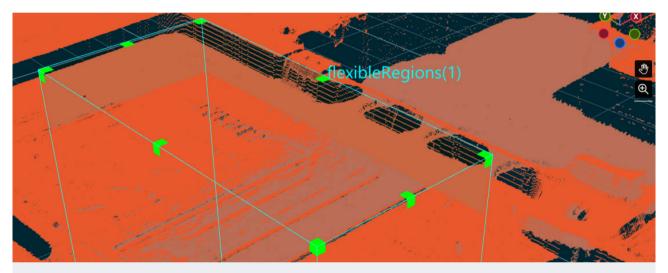


Hole Locating Locate the target holes and measure the diameters.



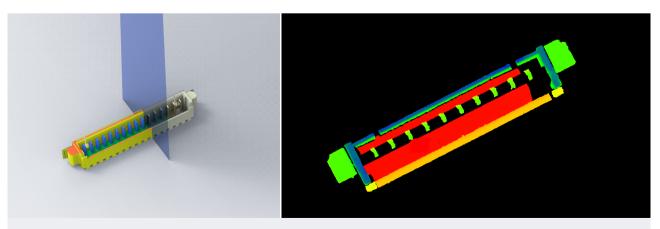
Dimensional Measurement

Measure the lengths, angles and geometrical properties of the target. Effectively tackle reflective surfaces.



Flatness Inspection

Acquire points on the surface to check whether all points lie in the same plane.



Height Measurement

Measure the distance between the base and the highest vertical point of the object. Accurately detect tiny height differences.

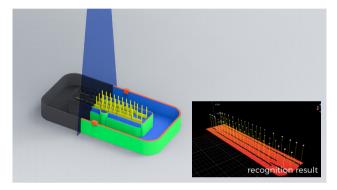
Work with Mech-Eye 3D Laser Profilers

Ideal for inline inspection

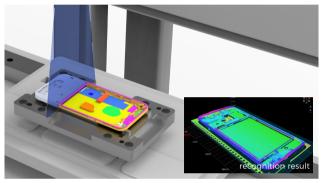
- High resolution
- Fast scan rates
- Flexible FOVs
- Single-shot HDR capability



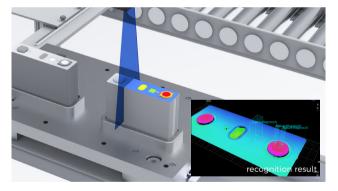
Mech-MSR, combined with Mech-Eye 3D sensors, is perfect for inline 3D measurement and inspection applications in consumer electronics, EV battery, home appliances, automotive, food & beverage and other industries.



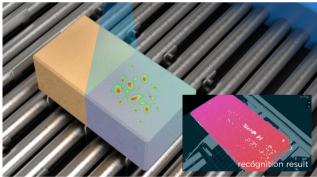
Height measurement (connector pin)



Flatness inspection (cellphone midplate)



Dimensional measurement (battery cell cap)



Defect detection (refractory brick)

3D VISION & AI FOR ROBOTS AND MORE



Get the most from Mech-Mind's 3D vision - get in touch with us!

Website: www.mech-mind.com E-mail (business): info@mech-mind.net E-mail (PR & marketing): marketing@mech-mind.net

Learning guidance to deploy your vision application STEP BY STEP, please visit

Documentation: docs.mech-mind.net Online community: community.mech-mind.com