

# On-Demand Optical Profiling and Microscopy Services with Keyence Systems



## Laser Scanning Confocal Microscope

\$300/hr

**VK-X1100**

Offers non-contact, high-resolution imaging with 16x depth of field than conventional systems, combined true-color and laser intensity (depth) measurements at every pixel, and fully automated stitching for oversize samples.



## Large Free-Angle Observation System

\$225/hr

**VHX-6000**

Faster, more powerful digital microscopy capabilities with multiple customizable lighting and imaging modes and real-time depth compositing to maximize depth of field and allow 3D image output.



## Wide Area 3D Measurement System

\$275/hr

**VR-5200**

Integrated 3D imaging & measurement with 5x measurable height range of conventional systems, resolution below 1  $\mu\text{m}$ , and capability to compare generated 3D models against other 3D datasets OR CAD files and design prototypes.

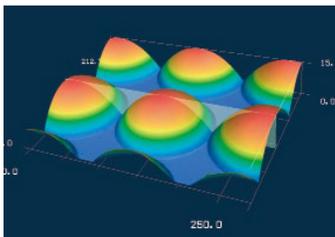


## Wide Area 3D Measurement System

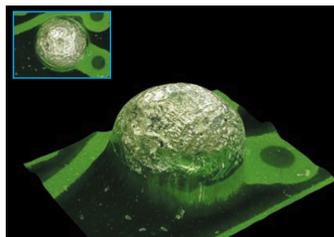
\$225/hr

**VR-3200**

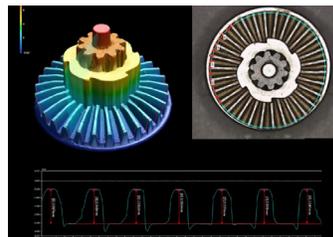
Integrated 3D imaging & measurement on one system, with lower-cost recipes better suited for long-term measurements as compared to 5200 model; tool rental service available.



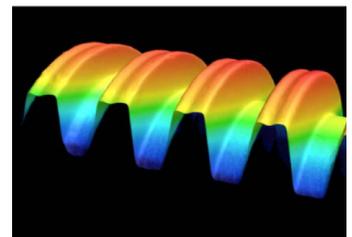
Microlens array at 1kx magnification.



Ball on BGA wafer packaging at 300 kx magnification.



3D image of tiered gear with 2D scanned image and extracted 1D line.



Extracted segment of 3D model generated from grooves in a screw.

Partnership is at the heart of Covalent's mission to make cutting-edge analytical capabilities available to scientists, engineers, and companies of all sizes and developmental stages. Covalent's Silicon Valley analytical services labs hosts over 30 instruments and we partner with some of the world's top instrument manufacturers (like Keyence) to ensure you have the expertise and data necessary to solve your most complex challenges.

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No expediting fees!