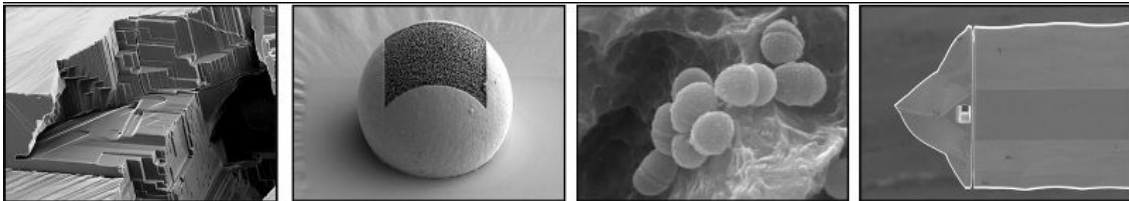


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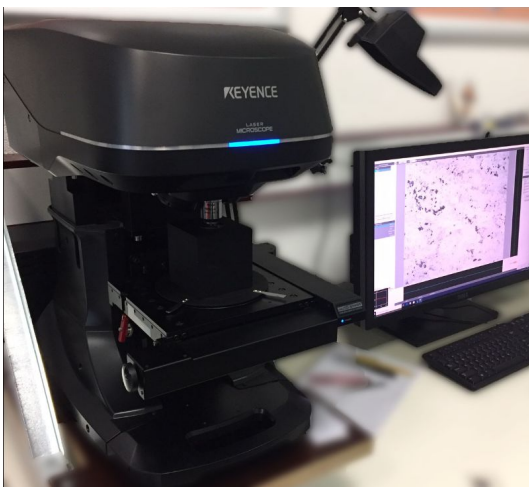
Newsletter

VOLUME I, January 6, 2020



New Generation 3D Laser Scanning Confocal Microscope

The new **Keyence VK-X1100** was put into operation at the end of September 2019 and has been running to our greatest satisfaction ever since. The following features are just a few of the most valuable innovations and properties of this latest generation of its kind:



It has a 16 times larger measurement area than our former model.

The measuring accuracy is now guaranteed with a 5 x magnification lens, which was not the case with the previous KEYENCE models.

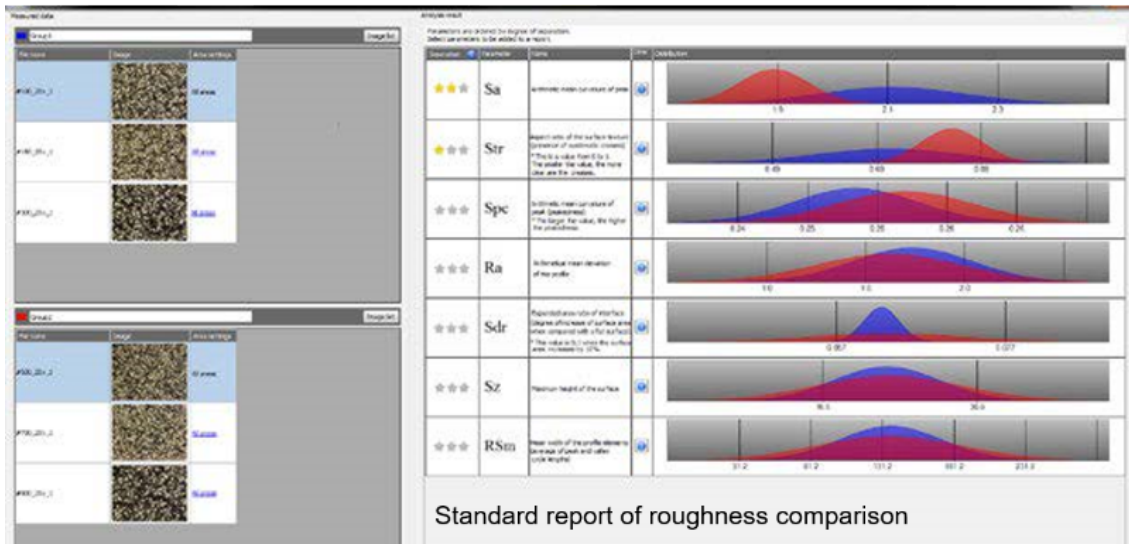
Focus variation (ISO 25178-6) includes multiple shots as the lens moves up and down along the Z axis.

These images are then used to create a 3D surface according to the focus position.

This is due to a fast area measurement instead of point-based scanning.

The batch analysis enables automatic evaluation of all measurement data in one process. This saves time and prevents application errors from repeated measurements.

The VK-X1100 is capable to measure surface roughness according to ISO 25178 and line roughness according to ISO 4287. 42 different roughness parameters are used to automatically compare several measurement objects visually:



Thanks to the negotiation of Prof. Richard Warburton and his team, the new 3D Laser Scanning Confocal Microscope was acquired and funded by seven different research groups of the Physics Department, the SNI and the Nano Imaging Lab.

For measurement instructions or further information, please put a request into our online tool <https://www.nanoimaging1.unibas.ch> or contact monica.schoenenberger@unibas.ch

1000 requests within 3 years

The 1000th customer of the Nano Imaging Lab since the installation of the admin tool in 2017 was registered in December. Luc Driencourt, PhD student from the Chemistry Department, was recognized with a little gift.

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<http://nanoimaging.unibas.ch>

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