

# PROFILOMETER

## OPTICAL 3D PROFILING MICROSCOPE

### Characterization of surface finish and topography

Our optical 3D-Profilometer is a versatile tool for characterizing the surface finish and 3D topography of coatings and components.

The device incorporates various measuring technologies that cover a wide range of scales. These technologies include Interferometry for sub-nanometric roughness, Focus Variation for measuring form and Confocal for critical dimensions requiring high lateral and vertical resolution.

For surface finish measurements, the profiler uses Confocal and Interferometry technologies, ensuring accurate and reliable measurement results for surfaces with varying roughness levels. It can handle extremely rough surfaces and highly reflective surfaces such as optical components.

The device features a 5-axis stage, and the Mountainsmap Software enables a wide range of investigations, providing enhanced flexibility and versatility for users.



#### Operating modes

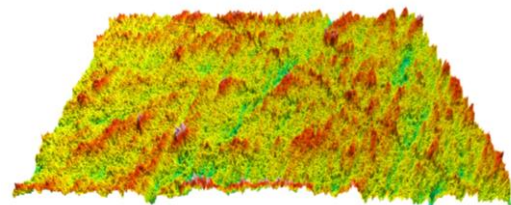
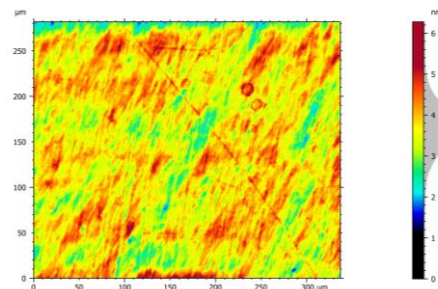
Interferometry (white-light)  
Confocal  
Focus variation

#### Test conditions

Air-conditioned environment  
Nondestructive

#### Standard

ISO 25178



Phase shift interferometry of fused silica.  $S_a = 0.43 \text{ nm}$

#### Contact:

Marcel Marxer  
Sales Engineer  
T +41 81 755 4978  
marcel.marxer@rhysearch.ch

Werdenbergstrasse 4  
9471 Buchs SG  
www.rhysearch.ch