

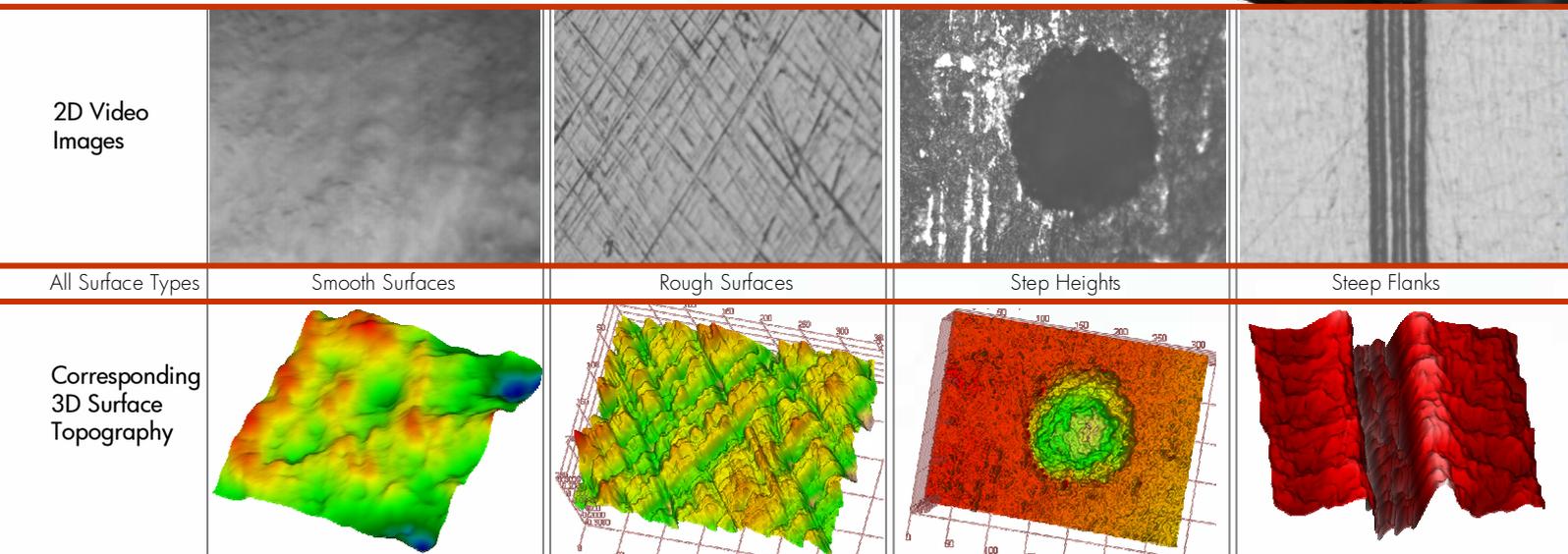


3D Stand-Alone Optical Device

SurPhase® is a 3D measurement device based on PhaseView's patented Digital Phase Technology® combining video microscopy and 3D surface topography capabilities.

By replacing complex equipment for 3D visualization and measurement, SurPhase® is an affordable tool offering **unique benefits**:

- All-in-one device combining video microscopy and 3D
- Flexible with 6 position objective turret
- Easy setup & operation
- Fast acquisition & processing time, less than 10 s
- Accurate measurements in nanometer range
- Certified measurement device



SurPhase® Delivers 3D Micro Topography

Roughness • Waviness • Step Heights • Profiles

Medical Devices Electronics Micromechanics Semiconductors Ceramic Paper Polymers Metal



Powered by 3D software

Based on the patented Digital Phase Technology, GetPhase® performs 3D reconstruction in a remarkably fast and easy way from a set of 2D intensity images. GetPhase® provides comprehensive tools from automatic acquisition and processing to 3D analysis and reports.

• Acquisition & Processing

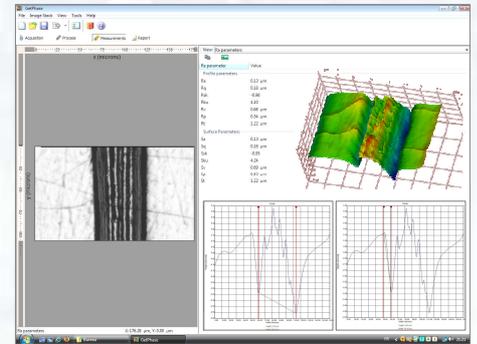
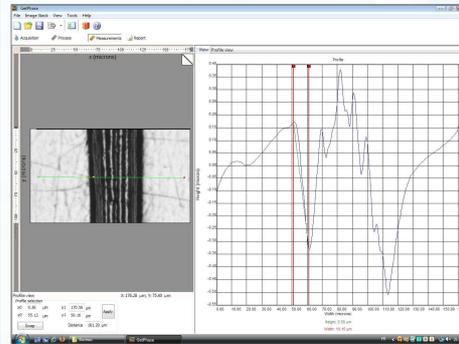
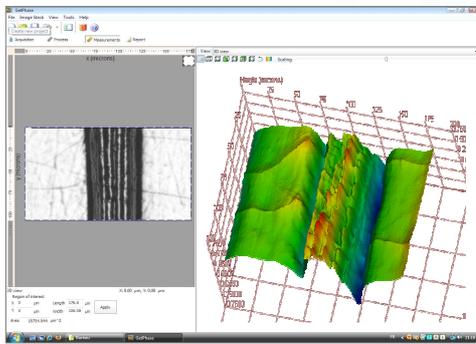
- Automatic Calibration
- Automatic Acquisition
- Automatic Processing
- Auto Focus & Exposure
- Region-of-Interest
- Navigator

• 3D Analysis & Measurement

- 2D Measurements
- 3D Surface Topography
- Profile Extraction
- Step Height Measurement
- Roughness Parameters
- Waviness Parameters

• Data Export & Report

- Project Archiving
- 3D Data in Excel Format
- 3D Data in Third Party Software
- Report Editor
- HTML Compatible Presentation



Performances & Technical Specifications

Performances are SurPhase® objectives dependent. The table below is given as an example.

Microscope Objectives	5x	10x	20x	50x	100x
Working Distance, mm	15.8	9.3	2.1	0.58	0.31
Numerical Aperture	0.13	0.25	0.5	0.8	0.9
Lateral (X,Y) Resolution, μm	2.1	1.1	0.7	0.4	0.3
Measurement Area (X,Y), mm^2	1.3 x 1.0	0.66 x 0.53	0.33 x 0.27	0.13 x 0.10	0.065 x 0.05
with optional scanning stage, mm^2	50 x 50 or 100 x 100				
Roughness range, $\text{Ra } \mu\text{m}$	0.1 to 3				
Max Axial Z range, μm	1000	250	62.5	10	2.5
Axial (Z) repeatability, μm	6.9	1.7	0.7	0.2	0.17
Number of measurement points	1.3 M (1280 x 1024 pixel array)				
Measurement Time, seconds	< 10				
Illumination & Objectives	450nm LED Illumination, 6 objectives position available				
Sample Stage	Standard: Manual X-Y 75 mm x 50 mm Stage; Optional: Motorized scanning stage				
Dimensions (L x W x H), mm	240 x 110 x 325				
Weight, kg	6.5				



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