

# MicroPhase®



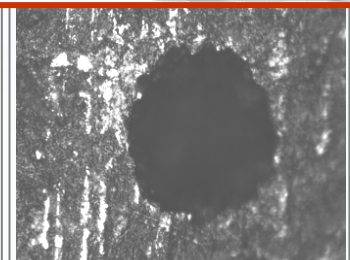
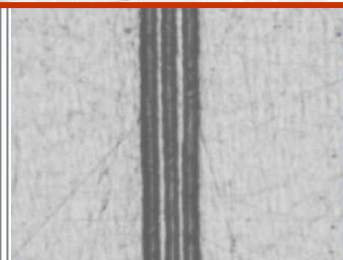
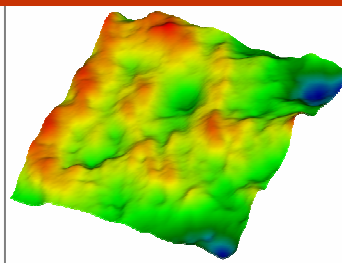
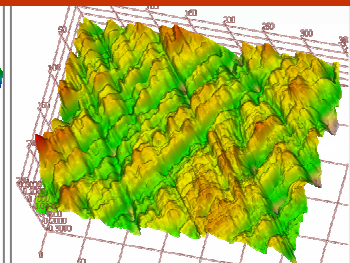
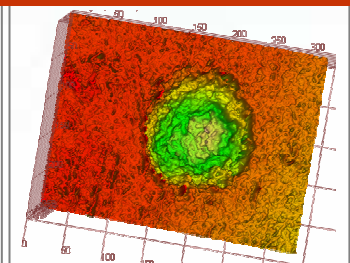
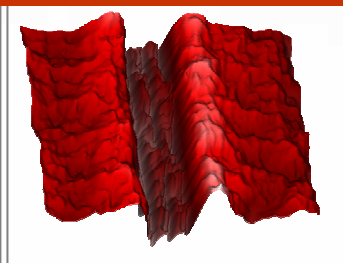
## 3D Device For Optical Microscope

A 3D micro topography solution based on PhaseView's patented Digital Phase Technology®.

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

- Simple Add-On compatible with any microscope
- No additional accessories needed
- Easy setup & operation
- Fast acquisition & processing time, less than 10 s
- Accurate measurements in nanometer range
- Certified measurement device



Optical Microscope Images				
All Surface Types	Smooth Surfaces	Rough Surfaces	Step Heights	Steep Flanks
3D Surface Topography with MicroPhase®				

### MicroPhase® Delivers 3D Topography From Your Microscope

**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

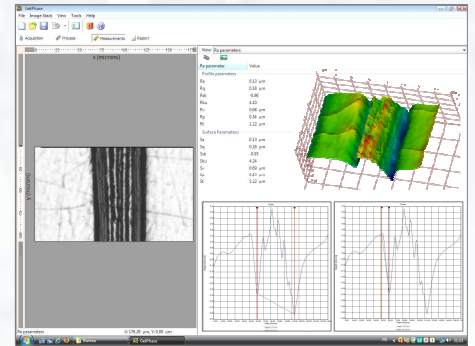
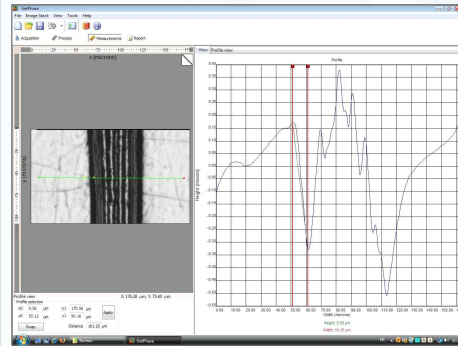
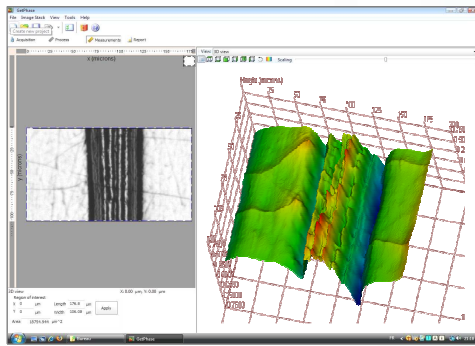
- Automatic Calibration
- Automatic Acquisition
- Automatic Processing
- Auto Focus & Exposure
- Region-of-Interest
- Navigator

## • 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 microscope 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, $\mu\text{m}$	2.6	1.5	0.8	0.5	0.4
Measurement Area (X,Y), $\text{mm}^2$	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, $\text{mm}^2$	50 x 50 or 100 x 100				
Roughness range, $R_a \mu\text{m}$	0.1 to 3				
Max Axial Z range, $\mu\text{m}$	1000	250	62.5	10	2.5
Axial (Z) Repeatability, $\mu\text{m}$	9	2.4	0.6	0.2	0.17
Number of measurement points	1.3 M (1280 x 1024 pixel array)				
Measurement Time, seconds	< 10				
Microscope Interface	Video Port (C-Mount Compatible)				
Dimensions (L x W x H), mm	120 x 74 x 173				
Weight, kg	2.5				



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