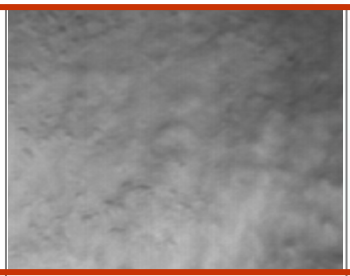
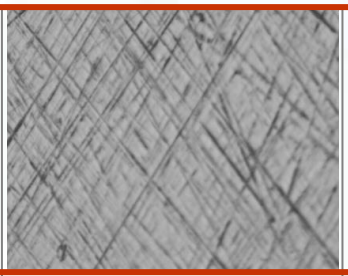
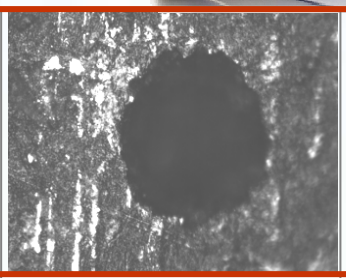
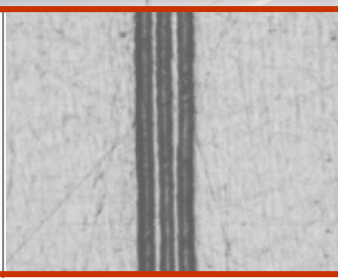
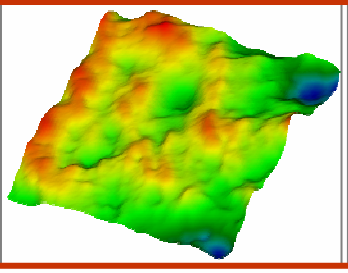
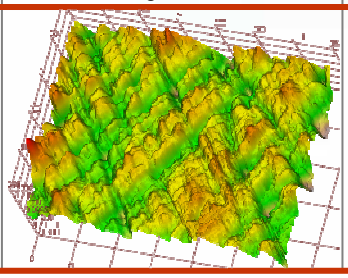
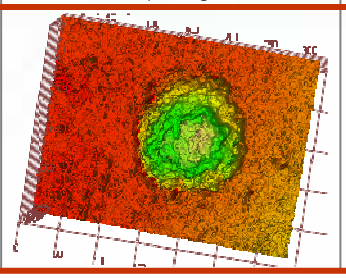
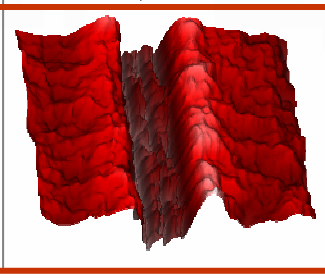
MicroPhase®

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

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

MicroPhase® Delivers 3D Topography From Your Microscope

Roughness • Waviness • Step Heights • Profiles

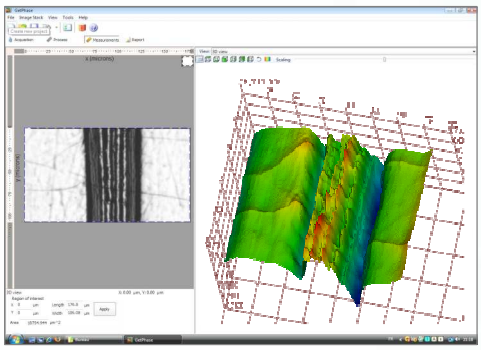
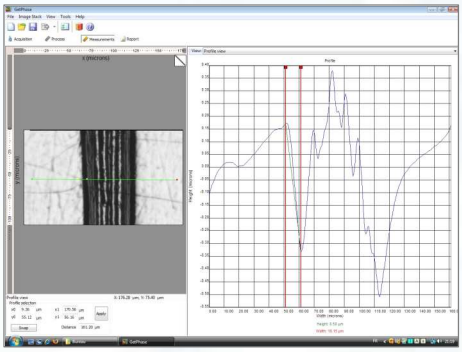
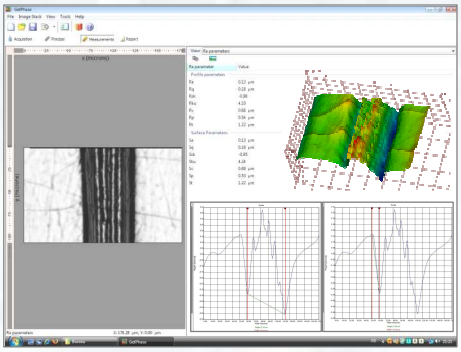
Medical Devices Electronics Micromechanics Semiconductors Ceramic Paper Polymers Metal

PhaseView®
THE SIMPLEST WAY TO 3D

Powered by 3D software GetPhase®

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	23.5		17.5		4.5		1		1	
Numerical Aperture	0.15		0.3		0.45		0.8		0.9	
Measurement Area (X,Y), mm²	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	
Lateral (X,Y) Resolution, µm	2.8		1.4		0.9		0.5		0.4	
GetPhase® (GP)* / GetPhase® Extended (GPE)**	GP	GPE	GP	GPE	GP	GPE	GP	GPE	GP	GPE
Maximum slope, degrees	8	89	16	89	24	88	38	84	42	78
Axial (Z) Range, µm	35	1000	9	250	4	62.5	1.1	10	0.8	2.5
Axial (Z) Resolution, µm	0.35	6.9	0.09	1.7	0.04	0.7	0.011	0.2	0.008	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									

*GetPhase®: Z-range within objective depth of field.
**GetPhase® Extended: Z-range beyond objective depth of field.

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