

Phenom Pro Suite, with all standard included applications.

The ultimate in  
application software

The Phenom™ Pro Suite was developed to extract information from images made with any Phenom G2 pro-series desktop scanning electron microscope (SEM), and to automate complicated system control.

The Phenom Pro Suite software is installed on the Phenom application system. This monitor-mounted PC is the hardware platform for all Pro Suite software, leaving the Phenom imaging unit in its original state and guaranteeing maximum system stability and up-time.

### APPLICATIONS STANDARDLY INCLUDED

- **AUTOMATED IMAGE MAPPING**  
The Automated Image Mapping application enables users to automatically collect multiple images in a regular grid.
- **REMOTE USER INTERFACE**  
Phenom Pro Suite's Remote User Interface makes it possible to access the Phenom from a different location.

The Phenom Application System and Pro Suite can be installed on any Phenom, pro-series system. For Phenom pure-series systems, you will need to purchase an additional completion package. The Phenom Application System can be connected directly to the Phenom or via a local network or the Internet, enabling network storage and remote system control.

### OPTIONAL APPLICATIONS

- **3D ROUGHNESS RECONSTRUCTION**  
With the 3D Roughness Reconstruction application, it is possible to generate three-dimensional images and sub-micrometer roughness measurements.
- **FIBERMETRIC**  
The Fibermetric application produces accurate size information from micro and nano fiber samples.

For more information on these applications, visit our website: [www.phenom-world.com](http://www.phenom-world.com).



The Automated Image Mapping application enables users to automatically collect multiple images in a regular grid.

The Automated Image Mapping application enables user-defined collection of images with a large field of view on a high-resolution image map.

After an area has been defined in the overview, Automated Image Mapping scans the area at the desired resolution and number of images.

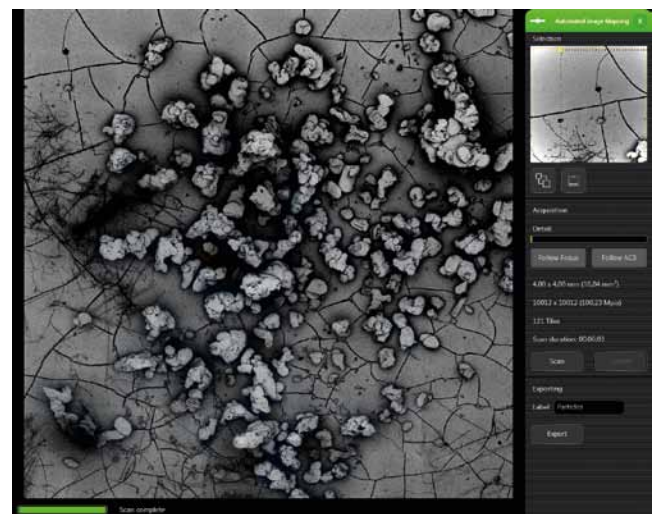
The images are tiled to one large overview which can be stored and navigated for detailed observation. All images can be stored separately for image analysis or as a reference database.

## MAIN BENEFITS

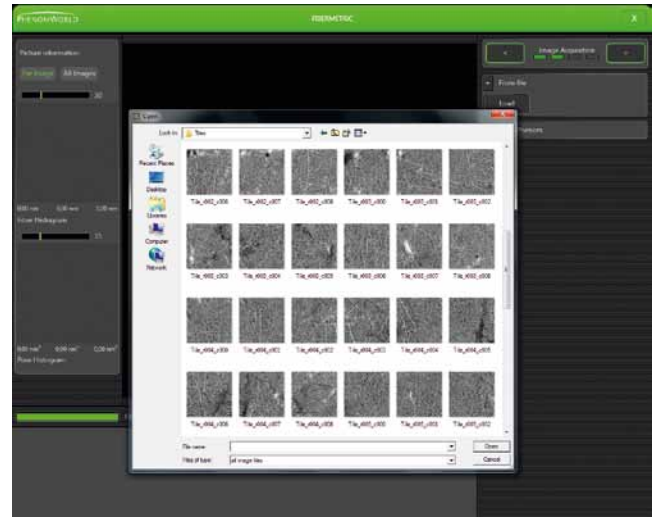
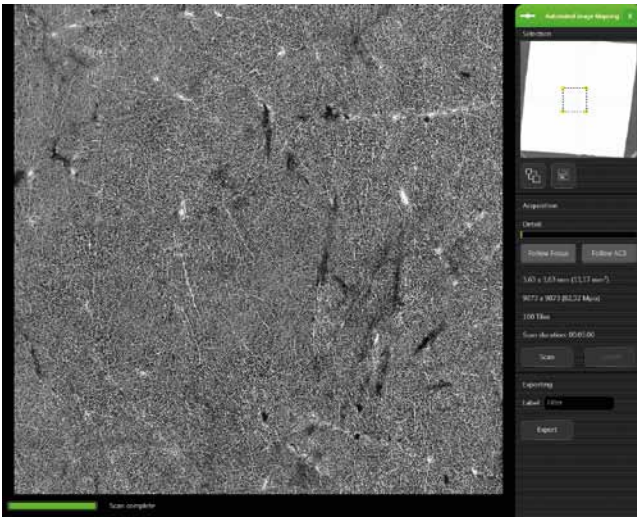
- Large field of view (FOV) images (min. magnification 31.8x, max. FOV 8.07 mm)
- Extremely high-resolution complete sample image maps
- Automated procedure for collecting all sample image data
- Intuitive single-page user interface
- Creation of low-magnification overviews
- Automated acquisition for Fibermetric



Example of large field of view automated image collection. The sample is a 3.15 x 4.15 mm ladybug that can be imaged completely at high resolution.



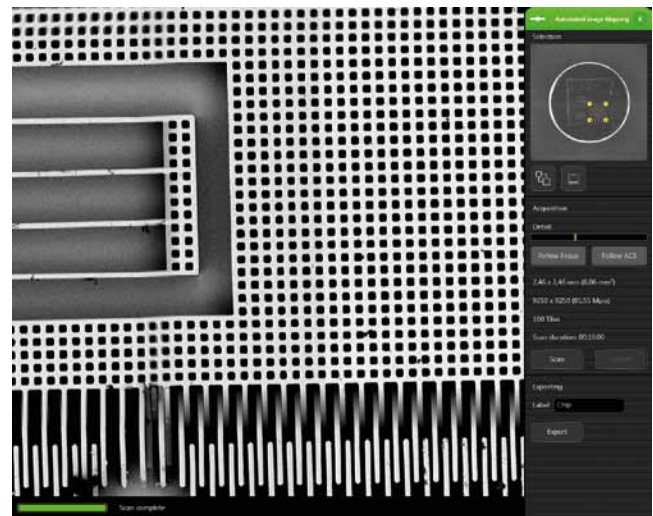
The large overview (4x4 mm) shows all the particles on the sample. The >100 Megapixel resolution also allows individual particles to be inspected in close-up.



On the left: Automated Image Mapping can be used to collect an array of images from a fiber sample.

The application can take 100 images at 1024 x 1024 pixel within minutes.

On the right: A batch of these images can be loaded into FiberMetric for fiber- and pore-size measurements.



On the left: An overview of a 2.46 x 2.46 mm semiconductor scanned at high resolution, resulting in an 85 Megapixel image.

On the right: A close up of the image map revealing small details on the surface of the chip.



Phenom Pro Suite's Remote User Interface makes it possible to access the Phenom desktop SEM from a different location. This application is ideal for customers needing support from Phenom-World Customer Support to optimize the performance of their Phenom desktop SEM. Customer Support can log on to the Phenom desktop SEM and help to adjust the necessary settings if access is granted from the customer's location.



Remote-controlled Phenom user interface.

## INTERACTIVE APPLICATION

The Phenom can be controlled using all the common features from the Phenom User Interface. It is also a perfect application for interacting with colleagues based at different locations. Samples can be imaged and data can be stored on a USB, a network location or local hard drive. This is the ideal solution for showing live results during a presentation or demonstration.

## MAIN BENEFITS

- Real-time remote control
- Direct feedback from Service
- Interaction with colleagues at various locations



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