

Phenom Pro Suite



The ultimate application software solution

The Phenom Pro Suite is developed to enable Phenom users to extract maximum information from images made with the Phenom desktop scanning electron microscope (SEM). It extends the capabilities of the Phenom, a high-resolution imaging tool, providing solutions to specific application needs.

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

The applications included in the standard Phenom Pro Suite software package are:

- **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.
- **measureIT (Olympus SIS)**

The Phenom Application System and Phenom Pro Suite are available for all Phenom desktop SEMs. The Phenom Application System can be connected direct, via local network or Internet, enabling network storage and remote system control.

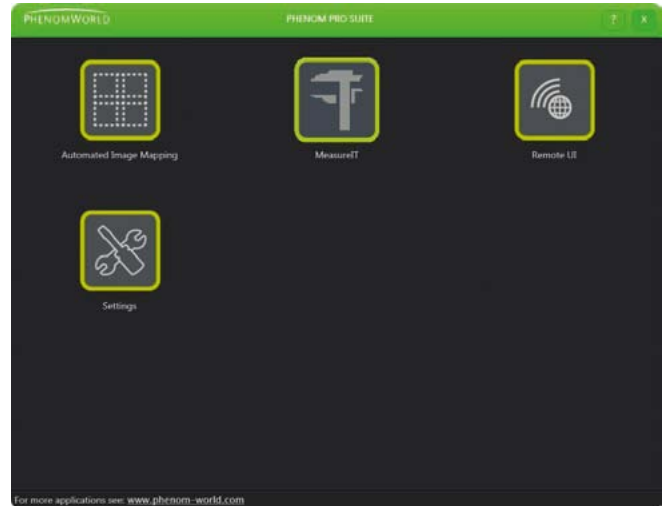


Figure 1: Phenom Pro Suite, with all standard included applications.

Optional applications:

- **3D Roughness Reconstruction**
With the 3D Roughness Reconstruction application, the Phenom is able 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



Automated Image Mapping



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 with 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.

The main benefits of Automated Image Mapping are:

- 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



Figure 2: 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.

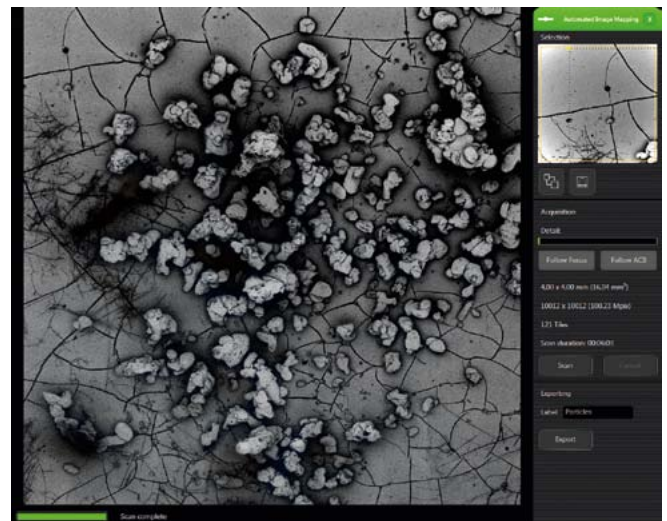


Figure 3: The large overview (4x4 mm) shows all the particles on the sample. The >100 Megapixel resolution also allows individual particles to be inspected in close-up.

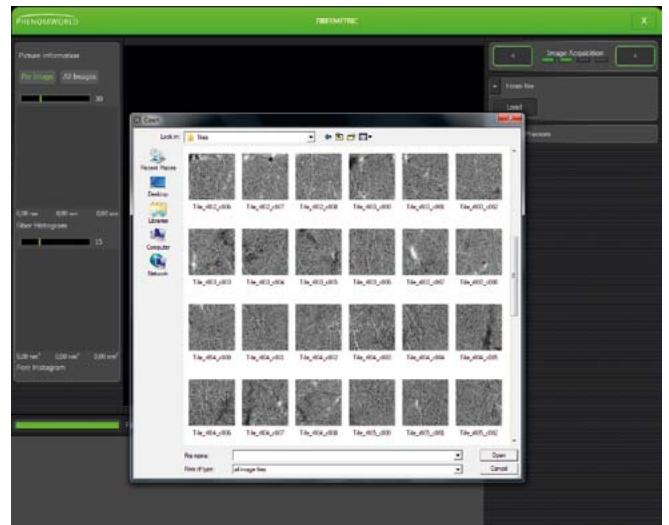
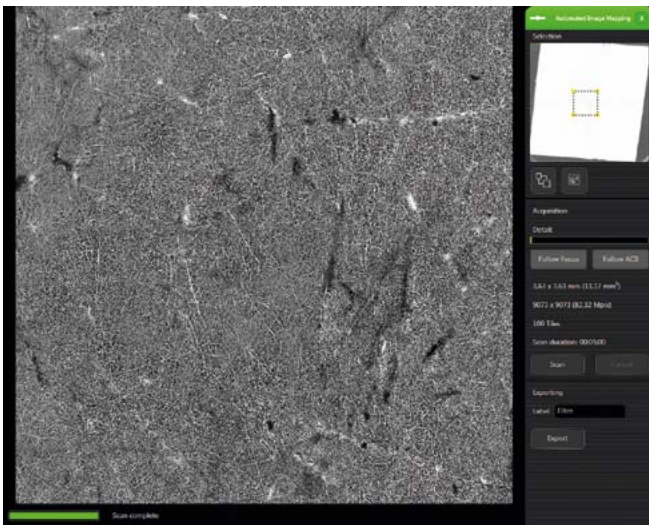


Figure 4 and 5: On the left: Automated Image Mapping can be used to collect an array of images from a fiber sample. The application can take 100 images at 1024 x 1024 pixel within minutes. On the right: A batch of these images can be loaded into FiberMetric for fiber- and pore-size measurements.

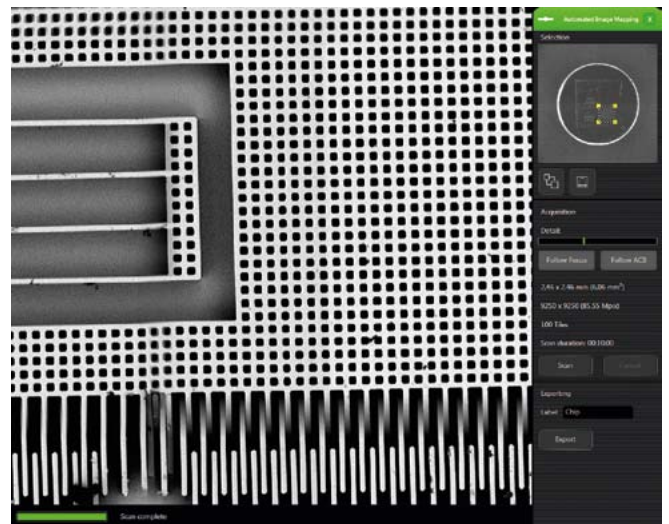


Figure 6 and 7: On the left: An overview of a 2.46 x 2.46 mm semiconductor scanned at high resolution, resulting in an 85 Megapixel image. On the right: A close up of the image map revealing small details on the surface of the chip.

Remote User Interface



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

The Phenom can be controlled with all the common features from the Phenom User Interface. It is also a perfect application for interacting with colleagues based at a different location.

Samples can be imaged and stored on a USB, a network location or local hard drive. This is the ideal solution for showing live results during a presentation or customer demonstration.

The main benefits of Remote User Interface are:

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

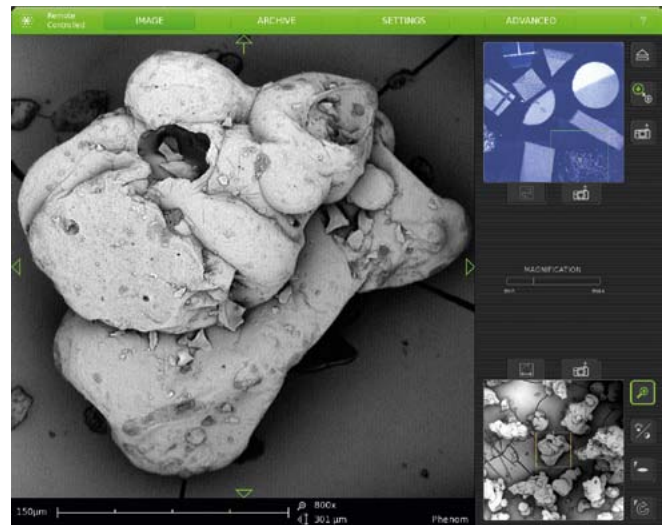


Figure 8: Remote-controlled Phenom user interface



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