



Phenom-World Launches Phenom Pro and ProX Generation 5 SEMs at Microscopy & Microanalysis Conference USA

The excellent performance in a wide range of applications offers a serious alternative to floor model SEMs

Eindhoven/July 25, 2017 – Phenom-World, the leading global supplier of desktop scanning electron microscopes (SEMs), today introduced its 5th generation Phenom Pro and ProX SEMs. The systems' enhanced imaging performance, 20 percent resolution improvement, larger choice of detectors and new software significantly widen their application range, while still maintaining the ease-of-use that Phenom-World's SEMs are known for. Their excellent **performance** offers a serious alternative to floor model SEMs in applications that include materials science, industrial manufacturing, electronics, earth science, life sciences, education, and more.



The new Phenom Pro SEM from Phenom-World.

“Desktop SEMs have matured and are providing valuable and reliable results,” explained Emile Asselbergs, CEO of Phenom-World. “Increasingly, SEM users are realizing that they do not need a full-size floor model SEM for many SEM jobs. In fact, most of our currently installed desktop SEM systems are being used in applications that previously used floor model systems. Our generation 5 SEMs will only accelerate this trend.”

Advanced New Features

“Generation 5 is a big step forward and adds a number of advanced features,” says Jos Maas, director of product marketing. “Imaging is improved, thanks to new electronics and an improved lens. Resolution is at least 20 percent better. In addition, an optional high-end secondary electron detector is now available, extending their application to situations that require more sensitivity to surface information. The generation 5 SEMs also allow the user to image materials that are very sensitive to beam damage. Glove box compatibility allows imaging of highly-reactive materials that need to be manipulated in an inert gas environment, such as argon or nitrogen. Moreover, thanks to new software features, the



excellent user experience that is the hallmark of all Phenom-World products has been taken to the next level.”

Built on Success

The Phenom Pro and ProX generation 5 SEMs come with all the unique features that have made their predecessors a phenomenal success. They are robust, vibration-insensitive SEMs that allow easy sample handling and deliver an image very quickly - about 30 seconds. A long-lifetime, high-brightness CeB₆ source provides excellent image quality, even in low vacuum conditions when analyzing non-conductive samples. A powerful and very transparent application programming interface (API) makes it easy for users to optimize imaging and image processing for their own dedicated workflows. Additionally, on the Phenom ProX, a fully-integrated energy dispersive x-ray spectroscopy (EDS) detector lets users analyze elemental composition and distribution at the microscopic scale.

Asselbergs emphasized, “This new generation of SEMs clearly shows our commitment to innovation that makes our customers’ jobs easier, so they can achieve their goals faster. It also demonstrates the growing capability of desktop SEMs, which is making them the first choice for many high-end applications.”

For more information, visit the company website at: www.phenom-world.com or visit us [at M&M USA](#), taking place August 7-10 in St. Louis, MO (booth 430).

About Phenom-World

At Phenom-World, we believe breakthroughs happen when complex nanotechnology is made intuitive, easier-to-use and brought within reach. As the top global supplier of desktop scanning electron microscopes, our aim is to make imaging and analysis at the nanoscale available to every scientist in every lab. That’s why we invest our time and effort into developing high-quality electron microscope solutions that are functionally rich, yet simple to use. Our mission is to create technology that has a real impact on how people work. This takes innovative thinking, collaborative working, and an entrepreneurial attitude. Our passionate employees work in the high-tech region of Eindhoven in The Netherlands and have the freedom they need to innovate. Together, with our highly skilled partners in more than 45 countries around the world, they ensure that our customers get fast, accurate results that help them to achieve more in nanotechnology.

Phenom-World is a privately owned, Netherlands-based spin-off from FEI Company (2009) (now part of Thermo Fisher Scientific) and is located in the heart of the Brainport region of Eindhoven, one of the main high-tech areas worldwide. More information can be found at: www.phenom-world.com.



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