

IndustryNews

New System for SEM Digital Image Acquisition

Quartz Imaging Corporation is proud to introduce its new Quartz PCI – Slow Scan USB Model. This is a compact external device that plugs in to a USB port on a PC and connects to the scan generator and video outputs of a scanning electron microscope (SEM) enabling the acquisition of digital images from analog SEMs. The USB Model is the third generation of the Slow Scan hardware first introduced in 2003.

Quartz Imaging Corporation
www.quartzimaging.com

New Semrock Master Catalog Available

Semrock, Inc. released its new 112-page, full-color, 2012–13 Master Catalog of optical filters and related products. The catalog contains several new Technical and Product Notes along with a selection of new products introduced in the past six months. Over 35 new thin-film filters for fluorescence microscopy and measurements, Raman spectroscopy, and other laser analytical instrumentation applications, as well as improved versions of existing optical filters and sets are available. Semrock filters are covered under the company's five-year warranty.

Semrock, Inc., a Unit of IDEX Corporation
www.semrock.com

Carl Zeiss Microscopes on World Tour



ZEISS on Your Campus (ZOYC) by Carl Zeiss is a traveling tour bringing free microscopy workshops to universities and institutes and has attracted more than 2,000 attendees since. The tour was launched in 2009 in the USA and was expanded to Europe, Asia, and Latin and South America this year. ZOYC provides scientists and their students with a unique opportunity to attend educational seminars and hands-on workshops focusing on the fundamentals of various microscopy techniques.

Carl Zeiss Microscopy, LLC
www.zeiss.com/micro

Denton Vacuum Ships First Altor Series Thin-Film Deposition System to Leading Cardiac Rhythm Management Products Manufacturer

Denton Vacuum, LLC shipped its first Altor™ series sputtering system to a prominent cardiac rhythm management (CRM) products manufacturer. The system will deposit electrically active coatings on cardiac leads, which are integral components of pacemakers and defibrillators. CRM product makers increasingly require the ability to reliably coat complex 3-D components with thin films that meet demanding criteria for biocompatibility, wear, electrical impedance, uniformity, and other properties.

Denton Vacuum, LLC – USA
www.dentonvacuum.com

Carl Zeiss Licenses Digital Pathology Patents from Olympus

Carl Zeiss Microscopy GmbH and Olympus America Inc. have signed a nonexclusive worldwide licensing agreement allowing Carl Zeiss to access an extensive portfolio of patents held by Olympus in the field of digital pathology and virtual microscopy. The patents included in the licensing deal cover methods and equipment for creating, storing, and delivering virtual microscopy slides. The technology enables individuals to view and share high-resolution virtual microscopy images over the Internet.

The Carl Zeiss Group and Olympus America Inc.
www.zeiss.com and www.olympusamerica.com

Olympus DP26® Microscope Camera Now Captures Images Without PC Connection

The Olympus DP26 high-resolution microscope camera is available as a stand-alone unit that can be used without a PC connection. The stand-alone DP26 unit streamlines image capture and saves valuable space in the laboratory. The DP26 incorporates a five-megapixel scientific-grade progressive scan CCD sensor and is known for its high sensitivity and brilliant, accurate color reproduction. Operators handle all routine image caption functions with a simple, familiar one-touch controller.

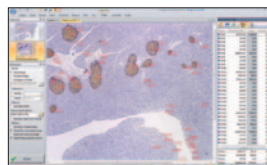
Olympus America Inc., Scientific Equipment Group
www.olympusamerica.com

Agar Scientific Announces New Products from the SIMPore Range of Precision Membrane Accessories for Electron Microscopists

Agar Scientific announces new products from the SIMPore range of precision membranes for electron microscopists. SIMPore makes the world's thinnest and most permeable nanoporous membranes that enable the saving of time, money, and resources. In contrast with conventional membranes, UltraSM® membranes are the ideal sieve for biomolecules and other nanomaterials. Empowering nanotechnology, SIMPore brings sophistication and elegance to membrane science.

Agar Scientific Limited
www.agarscientific.com

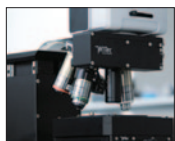
DAB Analysis App for Image-Pro Premier Software



Media Cybernetics announced the release of a new DAB Analysis App for Image-Pro Premier image analysis software. The DAB Analysis App allows pathologists and immunohistochemistry (IHC) researchers to automatically identify and analyze DAB-labeled tissue in digital images. This new app is designed to save hours of research time, as users will no longer need to manually identify labeled tissue. The automated nature of the app ensures that results are consistent across multiple images and tissue samples.

Media Cybernetics
www.mediacy.com

TrueSurface Microscopy Now Integrated with the WITec alpha300 series



WITec's award-winning TrueSurface microscopy is now available as an integrated option for the alpha300 microscope series. This development enables topographic Raman Imaging on large samples for the full range of WITec instruments. The new imaging mode is also available as an upgrade for installed alpha300 and alpha500 systems. Current users will appreciate this considerable expansion of their instrument's capabilities and the varied advantages TrueSurface Microscopy provides in taking their research further in the future.

WITec GmbH
www.witec.de

FEI Adds Patented UniColore Technology to Versa 3D DualBeam

FEI Company announced that it has added patented UniColore (UC) a monochromated electron source to its versatile Versa 3D™ DualBeam™ system. The UC source dramatically improves imaging resolution at low accelerating voltages by decreasing the energy spread among beam electrons, which reduces chromatic aberration and permits the beam to be focused into a smaller spot on the sample surface without compromising high voltage and beam current analytical performance.

FEI Company
www.fei.com/versa3d

Olympus Adds New Options to DSX Series Opto-Digital Microscopes

Olympus recently announced the addition of several new options to its DSX Series Opto-Digital Microscopes. The recently announced and newly enhanced DSX500, DSX500i, and DSX100 enable observation with higher image quality, enhanced operability, and extremely high reliability with guaranteed measurement precision (DSX500 and DSX500i only). Available exclusively for the DSX100, the new anti-halation adapter prevents reflection from the microscope illumination appearing on the sample, providing clearer observation.

Olympus Corporation
olympus-ims.com/opto-digital

FEI Announces New NanoManipulator and Gas Injector Solutions for Industry-Leading DualBeam Systems

FEI announced significant performance enhancements for its DualBeam™ systems. The new EasyLift™ nanomanipulator allows for improved ease of use, reliability, precision, and integration in preparing ultra-thin samples for analysis in a TEM. The new MultiChem™ gas delivery system, used for direct beam-induced deposition and etching of materials, provides superior control and flexibility over the gas-injection process and features simplified maintenance. EasyLift is designed specifically for *in-situ* liftout (INLO) TEM sample preparation.

FEI Company
www.fei.com

One Instrument for Raman, UV-Visible-NIR, and Fluorescence Spectroscopy of Microscopic Sample Areas



CRAIC Technologies announced the addition of Raman microspectroscopy capabilities to its flagship product: the 20/20 Perfect Vision™ microspectrophotometer. Users of the 20/20 PV™ now have the ability to acquire Raman spectra, with lasers from the blue to the near infrared, in addition to UV-visible-NIR absorbance, reflectance, fluorescence, and emission microspectra™. The 20/20 PV™ is able to acquire all these types of spectra of even sub-micron samples rapidly and easily.

CRAIC Technologies, Inc.
www.microspectra.com

SiMPore Collaborates with KonTEM to Improve TEM Imaging for Biomedical Researchers

SiMPore and KonTEM are collaborating to develop phase contrast solutions for TEM. At magnifications of one-million times or greater, biomedical researchers should be able to see the structure of virus or biological molecules. However, imaging these kinds of structures is practically difficult due to the weak manner in which biological molecules interact with the TEM's electron beam. Phase contrast imaging can overcome this limitation by significantly increasing the contrast of biological structures.

SiMPore Inc. and KonTEM GmbH
www.simpore.com

NSG Group Selects Bruker Dimension Icon Atomic Force Microscope

Bruker Nano Surfaces Division has shipped a Dimension Icon® Atomic Force Microscope (AFM) to the European Technical Centre of the global glass manufacturer NSG Group. The Dimension Icon system is equipped with Bruker's self-optimizing ScanAsyst® Imaging Mode and PeakForce TUNA™ module to enable unprecedented ease of use in conductivity mapping and other difficult materials characterization. The system brings new levels of performance, functionality, and AFM accessibility to nanoscale researchers in science and industry.

Bruker Nano Surfaces Division
www.bruker-axs.com

Molecular Devices Introduces MetaMorph NX 2.5 Software with Comprehensive Neuronal Morphology Module

Molecular Devices® announced the release of version 2.5 of its MetaMorph® NX Microscopy Automation and Image Analysis Software, which now includes modules for the study of neuronal morphology and fiber structures, support for targeted illumination devices, and a high-speed image acquisition mode. The new software provides a single tool for researchers to use images of any size to produce quantitative and comparative descriptions of neuronal anatomy rapidly.

Molecular Devices, LLC
www.moleculardevices.com