ProductNews

ZEISS Introduces its New Field Emission Scanning Electron Microscope ZEISS GeminiSEM 450



The GeminiSEM 450 delivers high-resolution and an optical system that obtains the best analytical results, especially at low voltages. High-throughput EBSD analysis and low-voltage EDS deliver excellent results due to

ZEISS Gemini 450's ability to precisely and independently control spot size and beam current. With the new design, it is possible to always work under optimized conditions, as the user can switch between imaging and analytical modes at the touch of a button.

Carl Zeiss AG www.zeiss.com

EVO Cam LI, the Next Generation of Digital Microscopes



Vision Engineering announced the EVO Cam ll, with major enhancements including the system's ability to offer up to 300× optical magnification, 12× digital zoom, customizable overlays to aid inspection, and up to 10 pre-set settings for reduced set-up time. A newly designed user interface allows for ease of

use and more control over the camera settings. The EVO Cam ll comes equipped with dimensioning capabilities using a grid overlay in the x and y axis.

Vision Engineering Inc www.visioneng.us

Thermo Scientific Explorer 4 Additive Scanning Electron Microscope Delivers First Dedicated Solution for 3D Printing Process Control



Manufacturers using additive manufacturing processes can now use the high-resolution imaging and elemental analysis capabilities of scanning electron microscopy to characterize powders that are the raw materials for many of their processes. The new Thermo Scientific Explorer 4 Additive is the first commercially released SEM specifically designed to measure particle size, shape, and composition in AM metal powders, and to inspect finished parts to assure quality.

ThermoFisher Scientific www.fei.com/products/sem/explorer-4-analyzer

Olympus Introduces IXplore Inverted Imaging Platform



To meet the needs of specific research applications and to deliver additional savings to the customer, Olympus introduced the IXplore inverted imaging platform. These microscopy solutions provide a significant price advantage over standard discounts and are designed by application to fast-track research

and results. The IXplore Standard offers high-quality fluorescence imaging. The IXplore Pro Fully provides automated multidimensional observation. The IXplore Live offers environmental control leading to optimal conditions for precise live cell imaging.

Olympus Corporation www.olympus-lifescience.com

JEOL Announces New Monochromated ARM200F



JEOL introduced the latest technology for cutting-edge research in development of new materials. The JEOL Monochromated ARM200F offers ultrahigh energy resolution EELS analysis of materials at the atomic scale, made possible by the development of a unique Spot-in-Spot-out double Wein filter monochromator. The double Wein filter maintains spot size of the beam and the lattice resolution in STEM by producing an achromatic and stigmatic focus at the exit plane,

resulting in a round probe on the specimen plane.

JEOL USA www.jeolusa.com

alpha300 Ri - New Inverted Confocal Raman Microscope



WITec has launched the alpha300~Ri inverted Raman microscope. It combines the advantages of data acquisition from below with the established merits of 3D confocal Raman imaging, a powerful and versatile technique that can chemically characterize samples

nondestructively and without labeling or other specialized preparation. The speed, sensitivity, and resolution of the WITec alpha300 series are now available from a new angle. Research applications in the fields of life sciences will benefit from the new setup.

WITec GmbH www.WITec.de

ZEISS Expands X-Ray Imaging Portfolio with ZEISS Xradia Context microCT



The ZEISS Xradia Context microCT is a large field-of-view, non-destructive 3D X-ray microcomputed tomography system. Further, the instrument is a tomographic imaging solution for a variety of 3D characterization and inspection needs, from research applications in materials and life sciences to industrial

use in product development or natural resource exploration. Users easily adjust the system to image large intact samples to reveal interior details in their full 3D context.

Carl Zeiss AG www.zeiss.com

New JEOL Tungsten SEM Features Zeromag and Live Analysis Functions

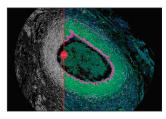


JEOL's new IT200 series of scanning electron microscopes are compact, versatile SEMs that deliver high-resolution imaging with unsurpassed low-kV performance and powerful software functionality, including "Zeromag" seamless transition from optical to SEM image, automated image montaging, report generation, and integrated image and analysis data

management. The analytical models include JEOL's fully embedded EDS system, which provides "Live Analysis" real-time EDS spectra during image observation.

JEOL USA www.jeolusa.com

10x Faster Lifetime Contrast Facilitates Access to New Discoveries



Leica Microsystems announces the SP8 FALCON, the world's first truly integrated lifetime contrast microscope. This lifetime information lets researchers monitor interactions between proteins in living cells as well as providing extra contrast to clearly separate a multitude of fluoro-

phores. For the first time fundamental players in cancer research, metabolomics, and cell signaling can be tracked, as fast as the speed of life.

Leica Microsystems GmbH www2.leica-microsystems.com/e/149501/ scopes-details-product-falcon-/3lfbtw/209957846

Verios G4 Extreme High-Resolution SEM



The Thermo Scientific Verios G4 extreme high-resolution (XHR) scanning electron microscope delivers the capability and flexibility needed to determine root cause defects, yield losses, and process and product failures. The Verios G4 is an SEM-only solution derived from our widely successful Helios family of DualBeam (focused ion beam/SEM) instruments. It offers industry-leading performance across a wide range of conditions, especially at the low voltages required for beam-sensitive materials used in advanced processes.

Thermo Fisher Scientific Inc. www.thermofisher.com

New Basler MED ace Camera Series for Medical and Life Sciences



Camera manufacturer Basler brings to market its first camera series specifically designed for medical and life sciences. The Basler MED ace series offers powerful CMOS sensor technology with up to 164 fps and 20 MP. Unique MED feature sets address the market's imaging challenges. Basler's new DIN EN ISO

13485:2016 certification offers customers several benefits through an effective quality management system with clearly defined standards.

Basler AG www. baslerweb.com/medical

MICROTEC Provides a Full Range of Affordable, High-Quality Light Microscopes



The MICROTEC range of microscopes and accessories is a relatively new name to the British market. Based on high manufacturing quality, excellent imaging capability, and reliability, the company has rapidly become one of the leading UK suppliers of light microscopes and accessories. The

MICROTEC range now covers a wide variety of the needs in the life sciences and material sciences and provides excellent performance at economical prices.

TEC Microscopes LTD www.tecmicroscopes.co.uk

Navitar Offers Well Matched, Seamlessly Integrated Imaging Systems



Navitar, Inc. announced the launch of a lens and camera coupling program offering customers a seamlessly integrated imaging system with uncompromised image quality. Navitar has taken their flagship high-resolution imaging lenses, the Resolv4K, 12X Zoom, and Zoom 6000, and matched them with their Pixelink CMOS industrial cameras, creating a fully integrated, optimized imaging solution. Systems can be built as motorized or fixed configurations with multiple sensor formats to choose from.

Navitar, Inc. www.navitar.com

Bruker Introduces Contour LS-K 3D Optical Profiler





Bruker announced the release of its new Contour LS-K 3D optical profiler with LightSpeedTM focus variation technology. This technique uses optimized focusing with advanced algorithms to

construct 3D surface maps at speeds impossible to achieve with other methods. The Contour LS-K uniquely enables both easy-to-acquire, high-resolution images and reliable metrology data. The system rapidly captures surface data with market-leading field of view at vertical scanning speeds up to 5 millimeters per second.

Bruker Nano Surfaces www.bruker.com

Introducing a New Accessible and Agile Digital Era in Agriculture



TAGARNO offers a new perspective on seed and grain analysis with a wide range of profitable benefits to the user, provided by user-friendly digital solutions such as its new digital microscope TREND. The magnification capabilities, updatable interface, and the fact that the images can be easily saved and shared make the digital

microscope a very attractive solution for a wide range of agriculture industries.

TAGARNO A/S www.tagarno.com/digital/microscopy

ANPx312 – New Positioner Optimized for Ultra-High Stability Applications



Many cryogenic experiments are becoming increasingly complex. Frequently, multipleaxes nanopositioning systems are used in these setups. The increased weight, however, leads to lower resonance frequencies

of the configuration and hence increased sensitivity to external vibrations. The new, ultra-stable ANPx312 piezo stage offers enhanced stiffness of up to 300% compared to similar cryogenic positioners, leading to an unmatched resonance frequency of 4 kHz, and it is compatible with other positioners offering up to 6 movement axes.

attocube systems AG www.attocube.com







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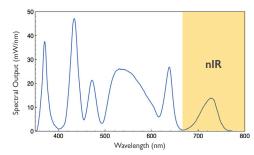
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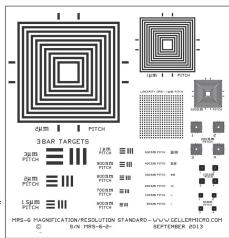
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