

ProductNews

Wyatt Technology Continues To Evolve RI Detection with Launch Of T-rEX



Wyatt Technology Corporation announced the launch of its new Refractive Index (RI) detection instrument, the Optilab T-rEX. Although RI detectors offer extreme sensitivity over a limited range and reduced sensitivity over a greater range, the Optilab T-rEX provides full range of detection and sensitivity across the entire dynamic range, meaning there is no longer a need to compromise one for the other.

Wyatt Technology Corporation
www.wyatt.com

JEOL Scanning Electron Microscope Offers Versatile Through-the-Lens System for Ultrahigh Resolution



JEOL has introduced a unique Scanning Electron Microscope with optics that enable ultrahigh resolution imaging at low kV and high spatial resolution microanalysis. The Through-the-Lens System (TTLS) combines new objective lens and detector technologies with the proven JEOL in-lens Field Emission Gun. The TTLS is designed to enable imaging of a wide variety of samples, including magnetic materials. The model JSM-7001FTTTL LV also features low-vacuum operation and a large specimen exchange airlock.

JEOL USA, Inc
www.jeolusa.com

Oxford Instruments Leads the Way with Innovative SDD Technology



The X-Max range of large-area, silicon drift detectors has been improved. Now, Oxford Instruments has launched the next generation, offering resolution down to 124 eV Mn and 48 eV C. The performance of the new X-Max has been upgraded to offer the best combination of size, speed, and resolution available. It gives ten times the solid angle of conventional EDS detectors, offering count rate, imaging, and premium analytical performance all at the same time.

Oxford Instruments NanoAnalysis
www.oxinst.com/xmaxnew.

FEI Introduces Nova NanoSEM 50 Series



FEI Company announced the availability of its new Nova™ NanoSEM 50 Series of ultra-high resolution scanning electron microscopes (UHR SEMs). They are designed to provide nanometer-scale resolution and ultra-precise analysis on the widest range of samples. In low vacuum, the Nova NanoSEM can examine highly insulating samples, up to nearly the same resolution that can be achieved in high vacuum, with little or no preparation, eliminating artifacts and saving time. Initial shipments are planned for Q4 2010.

FEI Company
www.fei.com

Flat-Top and Extended Travel Stages



ASI offers an assortment of stages with flat tops and extended range-of-travel. The MS-2500 stage provides 100 mm of Y-axis travel and 250 mm of X-axis travel, and works very well on existing inverted microscopes. Custom OEM configurations are available including front-loading stages with over 300 mm of Y-axis travel. ASI stages come standard with rotary encoders with a resolution of 100 nm and bidirectional repeatability better than 800 nm rms.

ASI / Applied Scientific Instrumentation
www.ASIimaging.com

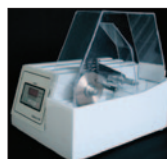
Agilent Technologies Introduces Turbomolecular Vacuum Pump Portfolio



Agilent Technologies Inc. announced a new line of turbomolecular high vacuum pumps, well-suited for ultra-high vacuum (UHV) applications requiring the highest level of compression ratios for light gases. Using patented TwisTorr molecular drag technology, Agilent has developed the Turbo-V 750 TwisTorr, the Turbo-V 850 TwisTorr, and the Turbo-V 2300 TwisTorr. The new turbomolecular pumps greatly increase pumping efficiency in a very compact space and provide significant improvements in performance.

Agilent Technologies Inc.
www.agilent.com/go/news.

Agar Scientific Announces the New Labcut 150 Low-speed Diamond Saw



Agar Scientific announces the availability of the new Labcut 150 low-speed diamond saw for sample preparation. Agar Scientific offers a comprehensive range of sample preparation instrumentation in the knowledge that this is a vital step to produce exceptionally high-quality specimens to enable investigations of the structure of metals, alloys, bone, composites, ceramics, and soft materials. The latest of these is the new Labcut 150 low-speed diamond saw.

Agar Scientific, Ltd
www.agarscientific.com

HiPace™ M Advanced Magnetically Levitated Turbopumps



Pfeiffer Vacuum announced a new series of high-performance magnetically levitated turbopumps, the HiPace M. They have high pumping speeds (300 l/s, 700 l/s, and 800 l/s) and achieve high compression ratios for all gases. These pumps are optimized to run in all orientations with a low vibration signature. An advanced rotor design provides unlimited rotor service life and dependable operation. An intrinsically low dynamic magnetic field does not interfere with even the most sensitive equipment.

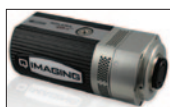
Pfeiffer Vacuum, Inc
www.Pfeiffer-Vacuum.com

New Cold Field Emission Gun Enhances Ultrahigh Atomic Level Resolution of JEOL ARM200F Aberration-Corrected S/TEM

A new Cold Field Emission Gun is now available for the atomic resolution analytical JEM-ARM200F Transmission Electron Microscope (TEM). The ARM200F has set a new benchmark for advanced aberration-corrected S/TEM technology with the highest resolution commercially available in its class. Now outfitted with the optional and field-retrofitable Cold FEG, the ARM200F's ultrahigh imaging resolution is guaranteed at 78 picometers with an energy resolution of 0.3 eV.

JEOL USA, Inc.
www.jeolusa.com

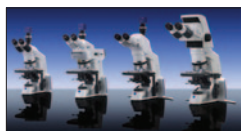
Qimaging® Introduces The Rolera EM-C2™ EMCCD Camera For High-Speed, High-Sensitivity Imaging



Qimaging announces the release of the Rolera EM-C2 EMCCD microscopy camera. Engineered for high-sensitivity and high-speed performance in low-light imaging applications, the Rolera EM-C2 camera aids researchers in applications such as spinning-disc confocal imaging, Total Internal Reflection Fluorescence (TIRF) microscopy, ratiometric ion imaging, and Fluorescence Recovery After Photobleaching (FRAP). Fast frame rates essential to cutting-edge live cell imaging studies are enabled by the camera's 40 MHz pixel clock rate.

Qimaging Company
www.qimaging.com

Carl Zeiss Introduces the Axio Lab.A1 Microscope for Polarization



The Axio Lab.A1 is now available for use in polarization microscopy and is particularly suitable for requirements in student education and routine laboratories. Axio Lab.A1 for polarization permits microscopic examinations of primarily thin geological and mineralogical specimens of glass and polymer samples. This microscope features rapid, reliable switching from orthoscopy to conoscopy. The focusable Bertrand lens placed on the stand is linked to the analyzer.

Carl Zeiss MicroImaging Inc
www.zeiss.com/micro

LWScientific Ultra 8 S



The 8-place Ultra Select centrifuge has a unique triangle design, made of sturdy aluminum alloy, accommodating most test tubes from 3 ml to 15 ml. Selectable 4-position speed control ensures accurate speeds for specific G-forces. With settings for blood (3300 RPMs) and urine (1800 RPMs) the Ultra Select will meet CLEA calibration requirements. The wide stance eliminates wobble, while the suction-cupped feet prevent slipping. The clear lid allows easy viewing of specimens while in use.

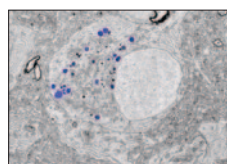
LW Scientific, Inc.
www.LWScientific.com

Protochips Announces Poseidon™, a Revolutionary *In Situ* Liquid Solution for Transmission Electron Microscopes (TEMs)

Protochips announces the Poseidon™ solution for *in situ* characterization of materials in liquid directly within the transmission electron microscope (TEM). Poseidon™ allows analysis of samples that are self-contained within a fully hydrated environment, effectively creating the native environment of a sample directly within the TEM. Samples and processes that previously required freezing or were unable to be imaged live can now be studied directly.

Protochips, Inc
www.protochips.com

Carl Zeiss Introduces Correlative Light and Electron Microscopy Solution for Life Sciences



Carl Zeiss introduced a unique hardware/software interface to connect light and scanning electron microscopes for correlative microscopy in the life sciences. The "Shuttle & Find" interface enables users to recall regions of interest in fixed specimens in an electron microscope, which were previously identified in a light microscope and vice versa. The entire process takes only a few seconds providing for rapid and precise overlay of light and electron microscope images.

Carl Zeiss MicroImaging Inc
www.zeiss.de/corrmic

Aven Stereo Zoom Scopes Offer Choices of Stands, Lenses, Eyepieces



A new Stereo Zoom Microscope line is available with varied configurations for application-driven adaptability. The binocular SSZ-30 models from Aven, Inc. magnify from 7× to 30× and have wide-field eyepieces that magnify the intermediate image by 10×. Flexibility is provided by a choice of pole, column, or boom stand. One pole stand model comes without illumination, and others feature long-life white LED lighting that can be dimmed.

Aven, Inc.
www.aven.com

Agilent Introduces the 8500 FE-SEM



This compact system offers researchers a field emission scanning electron microscope for high-resolution imaging. The 8500 has been optimized for low-voltage imaging, extremely high surface contrast with resolution typically found only in larger, more expensive FE-SEM microscopes. About the size of a laser printer, it provides convenient plug-and-play performance. No dedicated facilities are required, only an AC power outlet. The 8500 can image nanoscale features on a wide variety of materials.

Agilent Technologies
www.agilent.com/find/fe-sem