

ProductNews

Diatome Histo Jumbo Diamond Knife



This unique knife from Diatome allows you to pick up serial sections with ease. For successful ribbons of semi-thin sections, the Histo Jumbo offers no section loss, no folding, and the same orientation of all sections all of the time. The Histo Jumbo saves time and allows for the easy pick up of up to 20 sections per ribbon and multiple ribbons on one slide. The Histo Jumbo is ideal for 3D reconstruction and also for immunohistochemistry.

Diatome U.S.
www.emsdiasum.com

C-Mount Vision Sensors Offer Integrated Flash Controller



To reduce costs and improve the quality of vision systems, Baumer has introduced the new VeriSens[®] XC Series vision sensors. Featuring a fully integrated flash controller, these highly adaptable and reliable vision sensors reduce the cost and time involved in external light source installation. The sensors offer resolutions ranging from VGA to 2 megapixels. The sensor's C-mount design allows the user complete freedom in selecting the appropriate lens configuration and image resolution for the application.

Baumer Ltd.
www.baumer.com

Cameca Launches New Dynamic SIMS Instrument



CAMECA announced the release of the latest version of its successful IMS 7f Secondary Ion Mass Spectrometer—the IMS 7f-Auto. The newest model achieves even higher throughput because multiple samples can be analyzed in chained mode, possibly overnight, thanks to a new motorized storage chamber. The new primary column, coupled with automated routines for both primary and secondary column tuning, ensure high-precision measurement, long-term stability, and ease of use, thus enhancing the overall tool productivity.

Ametek Cameca
www.cameca.com

JEOL Introduces Ultra-High Resolution Analytical Field Emission SEM



JEOL introduces the JSM-7800F, which represents a significant leap forward in field emission SEM technology. The JSM-7800F uniquely combines an in-lens field emission gun with an aperture angle control lens (ACL), optimizing large probe currents (up to 200 nA) for operation at the smallest probe diameter. The new super hybrid lens design and versatile in-column detectors with filtering capabilities allow observation of any specimen, especially at ultra-low accelerating voltages down to 10 V.

JEOL USA, Inc
www.jeolusa.com

JEOL Puts New Spin on NeoScope Benchtop SEM



The JEOL NeoScope benchtop Scanning Electron Microscope, represented by Nikon Instruments, is as simple to use as a digital camera. A new feature of the NeoScope SEM is a touch-screen interface with the familiar look and feel of today's smart phones. Automatic functions, as well as pre-stored recipe files, make it easy to use for a multitude of sample types. Users of any skill level will appreciate the simplicity and fast operation.

JEOL USA, Inc.
www.jeolusa.com

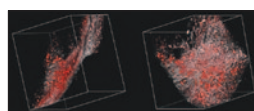
Photonic Science Full HDTV Low-Noise sCMOS Camera



The new high-sensitivity full HDTV low-noise cooled sCMOS camera from PSL delivers read-out noise as low as 1.2 electrons at 100 MHz overall scanning frequency. It is targeted to users with low light level requirements, seeking real-time acquisition with high intrascene dynamic range > 20,000:1. The camera actively compensates for fixed pattern noise, non-uniform response, and gain balance on a parallel bus read-out architecture.

Photonic Science and Defence Vision Systems
www.photonic-science.com

New Possibilities for Multiphoton Microscopy from Carl Zeiss—OPO and Simultaneous Lasers for LSM 7 Series



Multiphoton confocal microscopes from Carl Zeiss now permit the simultaneous use of two NLO lasers or one laser with an optical parametric oscillator (OPO). Both components are fully integrated and expand the functionality of the multiphoton systems. In dual laser systems different laser wavelengths simultaneously excite several fluorescent dyes or proteins. Users can image specimens with one wavelength and manipulate them in the multiphoton mode with another.

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

Andor Technology Offers Unprecedented Confocal Image Capture Rates with the Revolution XD System



The launch of the Revolution XD spinning disk confocal family provides a choice of upright and inverted microscope configurations. Capture events you have never seen with the high-speed Andor iXon Ultra and see detail you may have missed with the Neo sCMOS camera. Our microscopy portfolio offers application focus, and by manufacturing its own components, such as laser combiners and targeted illumination devices, Andor Technology can customize solutions to specific research needs.

Andor Technology
www.andor.com/xd

Auriga® Laser: Combination of FIB/SEM Technology with Laser Ablation



Carl Zeiss launched the AURIGA® Laser, a new advanced system combining the advantages of the AURIGA® CrossBeam (FIB-SEM) workstation with the capabilities of a pulsed micro-focus laser for fast ablation of material. AURIGA® Laser is particularly useful for the examination of samples where the target structure is deeply buried under material layers.

Ablation with a pulsed micro-focus laser beam does not damage the sample, and it enables ablation rates comparable to mechanical removal.

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

Photometrics® Launches Industry's Fastest, Most Sensitive 512 × 512 EMCCD Camera for Super-Resolution Imaging



Photometrics introduced the Evolve 512 Delta possessing the industry's fastest frame rates and highest sensitivity, enabling researchers to obtain high-quality super-resolution images in half the time it takes other 512 × 512 EMCCD cameras on the market. The Evolve 512 Delta was specifically designed for super-resolution applications such as STORM, PALM, and GSD. The camera is also suited for a wide range of other state-of-the-art applications.

Photometrics
www.photometrics.com

New Generation of LED Illuminators



CoolLED Ltd. announces the launch of its pE-200 and pE-300 family of LED light sources. These new LED products benefit from even greater intensity, are more compact, and offer greater value. Common 2-wavelength (pE-200) and 3-wavelength (pE-300) configurations are available, meeting needs common to clinical, tissue culture, and confocal configurations. The units will be available as a direct fit, which simply replaces the redundant mercury source. Light-guides or optical fibres will follow in future months.

CoolLED Limited
www.cooled.com

Olympus Launches IX3® Microscope Series—Three Inverted Research Microscopes Offer Unprecedented Flexibility, Optical Performance, and Precision



Olympus has premiered its IX3® line of inverted research microscopes. Newly introduced are the IX83, a fully automated high-end research microscope platform; the IX73 modular microscope system that can be configured in manual, semi-motorized, or motorized versions to benefit an extraordinary range of research applications; and the IX53 system microscope, designed for quick and efficient routine examination of multiple tissue samples.

Olympus America Scientific Equipment Group
www.olympusamerica.com/ix3

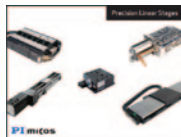
AirClean Systems Offers AirMax Polypropylene Total Exhaust Fume Hoods



The AirMax fume hood with its Wet Fume Scrubber system is a complete solution for protecting personnel from dangerous chemical exposure while also protecting ductwork and the environment by scrubbing acids and other water-soluble gases from fume hood exhaust. AirMax hoods are constructed of thermoplastics (primarily polypropylene) with all contact surfaces using seamless, thermally welded joints. Dual-wall design installation provides ample room for mounting fixtures and services.

AirClean® Systems
www.aircleansystems.com

High-Precision Linear Stage Family from PI miCos



PI (Physik Instrumente) LP is now offering the PI miCos product line of Precision Linear Stages. More than 20 product families are available, starting with miniature translation stages and positioning ranges of 40 mm to high-load, linear translation stages for travel ranges to 1 meter. They include low-cost, open-loop stages with stepper motors and leadscrew drive, as well as high-speed and high-accuracy models with linear encoders featuring up to 1-nanometer resolution.

PI (Physik Instrumente) LP
www.pi-usa.us

EDAX Launches New Silicon Drift Detector and Sample Viewport for Orbis Micro-XRF Analyzer



EDAX Inc. introduced new detector and sample viewport options for its Orbis micro-XRF elemental analyzer system. The new detector is a thermoelectrically cooled 50 mm² silicon drift detector (SDD) capable of high-resolution spectral acquisition at high count rates. In applications where the detector is signal "starved," the new SDD detector can collect the same spectral data in half the time as a standard Orbis 30 mm² SDD detector.

AMETEK EDAX
www.edax.com

Princeton Instruments Introduces the IsoPlane, a Revolutionary Aberration-Free Imaging Spectrograph



The newest imaging spectrograph from Princeton Instruments is the IsoPlane SCT-320. The IsoPlane™ (patent pending) features a revolutionary new optical design that eliminates the primary aberrations present in traditional imaging spectrographs. It produces images that are clearer and sharper across the focal plane than any comparable spectrograph on the market. As a result, more photons end up in spectral peaks, significantly increasing the effective signal-to-noise ratio (SNR).

Princeton Instruments
www.princetoninstruments.com