

ProductNews

New X-Cite XYLIS



Excelitas Technologies' new X-Cite® XYLIS LED light source is a true arc lamp replacement for fluorescence microscopy. Incorporating patented and award-winning LaserLED Hybrid Drive® technology to overcome the green gap, X-Cite XYLIS provides a broad spectrum and rivals traditional arc lamps for brightness.

X-Cite XYLIS has the benefits of LEDs without compromising on performance, price, or flexibility.

Excelitas Technologies
www.excelitas.com

Bruker Introduces Light-Sheet Microscope for Imaging Optically Cleared Samples

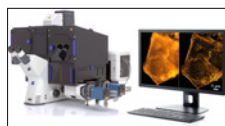


Bruker announced the release of the Luxendo MuVi SPIM light-sheet fluorescence microscope for imaging optically cleared samples. The MuVi SPIM technology allows fast, long-term imaging of large samples with highest resolution and optical sectioning, as well as minimized photo-damage. By means of physicochemical clearing

techniques, the optical properties of usually opaque samples are modified to render them transparent, while keeping their structure intact.

Bruker Nano Surfaces
www.bruker.com

ZEISS Elyra 7 with Lattice SIM



ZEISS introduced ZEISS Elyra 7 with Lattice SIM, a new flexible platform for fast and gentle 3D superresolution. Lattice SIM expands the possibilities of structured illumination microscopy. Illuminating the

sample with a lattice pattern rather than grid lines gives higher contrast and allows a more robust image reconstruction. Scientists can use 2× higher sampling efficiency to lower the illumination dosage to observe fast cellular processes in superresolution.

ZEISS Research Microscopy Solutions
www.zeiss.com/microscopy

Lambert Instruments Introduces sCMOS Camera for Effortless Scientific Imaging



Lambert Instruments announced the introduction of a user-friendly sCMOS camera. The Lambert sCMOS automatically finds the optimal camera settings and captures excellent low-light images with its 1280 × 1024 pixel sCMOS sensor that captures detailed images. The Lambert sCMOS captures up to 100 frames per second even under challenging low-light conditions. With the Lambert Instruments Capture software, it is easy to record images and videos. Users can record, trim, analyze, and export image data.

Lambert Instruments B.V.
http://lambertinstruments.com/scmos

EB-135, Epoxy for Medical Device Applications



EpoxySet offers the EB-135, a versatile, medium-viscosity, epoxy formulation for a wide array of industries. EB-135 is a structural adhesive that bonds well to almost all substrates. It is a low-stress optical material with high transmission,

–350 to 2500 nm, with low fluorescence. Certified to ISO-10093-5, it has been used in short-term implantable devices. With very low cure shrinkage, EB-135 can be used for Fiberoptic terminations including PM fibers.

EpoxySet Inc.
www.epoxyset.com

Photonic Science 16-Megapixel sCMOS Camera



Photonic Science announced its 16-megapixel sCMOS camera, which is also available as an indirect X-ray camera. Featuring a resolution of 4096 × 4096, 9 μm pixels, 4.5 fps at full resolution, readout noise of <4e rms, QE >70% at

650 nm, and with a choice of both camera

link and GigE interfaces, this camera is well suited for a number of scientific applications, including photoluminescence, fluorescence lifetime detection, confocal microscopy imaging, and astronomy.

Photonic Science & Engineering Limited
www.photonicscience.com

Pelco Dimpler

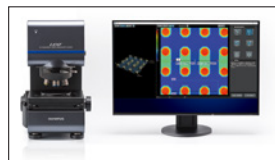


Now available to order is the PELCO® Dimpler™ for the automated precision thinning of materials science specimens for TEM analysis. The PELCO® Dimpler™ is the latest model in the Dimpler™ line, formerly available from South Bay Technology. It is a precision electro-mechanical metallographic lapping

instrument that will continuously monitor and control dimpling parameters and accurately terminate at a preset specimen thickness.

Ted Pella, Inc.
www.tedpella.com/Material-Sciences_html/PELCO-Dimpler.htm

Olympus's Laser Scanning Confocal Microscope



Olympus' new LEXT® OLS5000 3D laser scanning confocal microscope features 4K scanning and dedicated objectives for detection of near-perpendicular features at close to nano-scale. The microscope acquires

data four times faster than its predecessor, using an expansion frame and long working distance (LWD) lens to perform precise measurements on samples up to 210 mm in height and concavities up to 25 mm deep. The result is simple, accurate measurement of a wide variety of samples.

Olympus Corp
www.olympus-ims.com

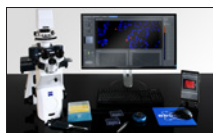
Jupiter XR Large-Sample AFM from Asylum Research



Oxford Instruments Asylum Research AFMs are widely used by both academic and industrial researchers for characterizing samples from diverse fields spanning material science, polymers, thin films, energy research, and biophysics. In addition to routine imaging of sample topography and roughness, Asylum Research AFMs also offer unmatched resolution and quantitative measurement capability for nanoelectrical, nanomechanical, and electromechanical characterization. Recent advances have made these measurements far simpler and more automated for increased consistency and productivity.

Oxford Instruments America, Inc.
<http://afm.oxinst.com/products/jupiter-family-of-afms/jupiter-xr-afm>

Bruker Launches New High-Speed AFM System for Life Science Microscopy Applications



Bruker announced the release of the JPK NanoWizard® ULTRA Speed 2 advanced AFM system, which combines highest-speed and highest-resolution AFM with advanced bio-imaging features. The system is the first new product to come out of Bruker's JPK BioAFM business, formed in July 2018 with the acquisition of JPK Instruments AG. The JPK NanoWizard ULTRA Speed 2 comes standard with PeakForce Tapping®.

Bruker Corporation
www.bruker.com/BioAFM

Modular Turnkey Systems Add Spectroscopy to Any Microscope



HORIBA Scientific introduces its new Standard Microscope Spectroscopy (SMS) system. With its unique set of accessories, the SMS family of systems enables any standard microscope to be fitted with a spectrometer and a detector, thereby offering the ability to perform techniques such as Raman, steady state, and time-resolved photoluminescence, reflectance/transmittance, electroluminescence, photocurrent, and dark field scattering. The SMS platform brings unprecedented flexibility and modularity to performing spectroscopy on standard microscope systems.

HORIBA Scientific
www.horiba.com/scientific

Prior Scientific Introduces the PureFocus 850



Prior Scientific announced the new PureFocus 850, an autofocus microscope. The PureFocus 850 is a fast, precise, and accurate focusing system that has been designed to fit both upright and inverted microscopes using infinity corrected optics. The PureFocus 850 is able to precisely and consistently focus on samples. It is the only system to reliably focus on slides, well plates, chamber slides, and Petri dishes while maintaining clear images for long-term studies.

Prior Scientific
www.prior.com/product/purefocus850

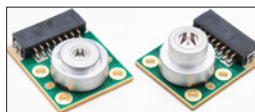
TESCAN S9000G



The TESCAN S9000G is a gallium FIB-SEM system aimed at advanced ultra-thin TEM sample preparation. The instrument features the Triglav™ SEM column for ultra-high resolution with excellent performance, especially at low electron beam energies, and improved in-beam detection system with filtering electron signal collection capabilities. It is equipped with the Orange™ FIB column that delivers not only the highest standard in precision for nanofabrication, but also the possibility to use high ion beam currents, making it feasible to conduct large-volume sample analyses.

TESCAN USA Inc.
www.tescan.com/en-us/technology/fib-sem/tescan-s9000g

High Power, UV LED Light Engines



Innovations in Optics, Inc. offers Lumibright™ UV-LED Light Engines, powerful solid-state sources that are being used within OEM equipment applied to photocuring of adhesives and coatings, as well as photomask exposure systems for photolithography. Lumibright™ UV-LED Light Engines feature UV die arrays bonded on MCPCB substrates that enhance thermal performance for high-current density operation. The specialized primary optic is a non-imaging concentrator made from fused silica, ideal for high-power UV flux.

Innovations in Optics, Inc.
www.innovationsinoptics.com

ZEISS Introduces Next Generation X-Ray Microscopes



ZEISS introduced two new advanced models of the ZEISS Xradia Versa family: The ZEISS Xradia 610 and 620 Versa X-ray microscopes. They excel through faster non-destructive imaging of intact samples without sacrificing resolution and contrast over the full range of power and kV. Researchers and scientists across the world rely on the signature resolution at a distance (RaaD) capability of ZEISS Xradia Versa microscopes.

ZEISS Research Microscopy Solutions
www.zeiss.com/microscopy

Microflow III Class 1 Ductless Workstation



The MicroFlow III is a Class 1 ductless carbon-filtered workstation equipped with particle pre-filter and Activated Carbon filtration ideal for fumes, odors, and non-hazardous chemical vapors. It is self-contained with integral recessed work surface to contain spills. A convenient clear viewing sash surrounds the work area for user protection. The sash can be conformed for use with a microscope and is easily removable. Variable-speed fan control allows for high-speed 100f/m. air flow through the sash opening.

HEMCO Corporation
www.HEMCOCorp.com