

ProductNews

Leica Microsystems Introduces the Leica DM2500 LED Microscope



The Leica DM2500 LED is suitable for demanding tasks in clinical laboratories as well as for research applications in microbiology, developmental biology, cytology, zoology, botany, and more. The ultra-bright LED illumination of the Leica DM2500 LED

was developed in cooperation with pathologists and research scientists and offers a constant color temperature at all light intensities, enabling particularly fine differentiation of colors in stained specimens.

Leica Microsystems GmbH
www.leica-microsystems.com

JPK Releases the Next Generation BioAFM – NanoWizard® 4 BioScience AFM



The new JPK BioAFM system is especially designed for integration with advanced optical methods (FLIM, FCS, FRET, confocal, Raman, etc.) as well as super-resolution optics such as SIM, STED, or PALM/STORM. This has now been fine-tuned to enable straightforward high-resolution quantitative imaging through a new nanomechanical design of the core AFM complemented with the widest range of modes and accessories.

JPK Instruments AG
www.jpk.com

Real-time 3D Analytical FIB-SEM Composite Instrument NX9000 Released



Hitachi announced the release of the 3D analytical FIB*1-SEM*2 composite instrument, NX9000. In the NX9000, the SEM column and FIB column are arranged orthogonally rather than the usual diagonal configuration. This configuration is optimal for 3D structural analysis. It avoids the issues that affected conventional FIB-SEM composite instruments, namely shrinking of cross-sectional SEM images and non-alignment of the visual field on recovery of image series that faithfully represent the true structure of the sample.

Hitachi High Technologies America, Inc.
www.hitachi-hightech.com/us

Brightfield LED Microscope Illuminator

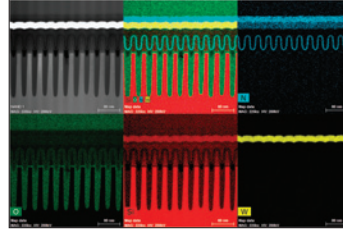


Prior Scientific has announced two additions to their wide range of illumination products for microscopy: the new LDB100F and LDB101F Brightfield LEDs. Using a Brightfield LED with a 550 nanometre flip-in filter in the light path reduces background fluorescence attributed to stray light. The Brightfield LED replaces the standard light source and provides all

the advantages of LED illumination in a flexible package that can be fitted to most modern upright and inverted microscope systems.

Prior Scientific Instruments Ltd.
www.prior.com

Evans Analytical Group Introduces Its New FEI Tecnai Osiris Instrument, Offering State-of-the-Art STEM-EDS Mapping



A new STEM-EDS service has recently been introduced by Evans Analytical Group (EAG) at its Sunnyvale, CA, location. This instrument offers nanometer-scale elemental mapping of elements with atomic number ≥ 5 . Please contact EAG now to discuss using the instrument.

Evans Analytical Group
www.eag.com/mc

Leica Microsystems Launches Upright Microscopes for Life Science



With the Leica DM4 B and Leica DM6 B, users can choose between halogen and LED illumination in the transmitted light path, with LED illumination providing constant color temperature for homogeneously lit samples. The camera field-of-view of 19 mm is matched to the chip size of the sCMOS cameras, which have become increasingly popular in life science applications due to their high frame rates and good signal-to-noise ratios.

Leica Microsystems GmbH
www.leica-microsystems.com

Get the Big Picture from a Small, Compact, and Versatile Benchtop SEM



With recent upgrades, JEOL has introduced a new model, the JSM-6000Plus, the third generation of the popular NeoScope benchtop SEM. The NeoScope delivers fast, high-magnification electron microscopy with selectable high and low kV, selectable beam currents, and up to 60,000 \times magnification. The JSM-6000Plus now offers high-sensitivity backscatter electron (BSE) detection with a BSE detector manufactured by JEOL to detect contrast between areas of the sample with different chemical compositions.

JEOL USA
www.jeolusa.com

Excelitas Technologies® Corp. Unveils New LED Illuminator for Microscopy



Excelitas announced the availability of X-Cite® TURBO, a new multi-wavelength LED fluorescence illuminator for microscopy imaging and detection applications. Featuring Excelitas Technologies' patent-pending LaserLED Hybrid Drive™, X-Cite TURBO provides maximum excitation power for all standard color wavelengths, including the ever-popular yellow excitation band. As the latest offering in Excelitas' suite of X-Cite solutions, the new X-Cite TURBO enables precise control by balancing illumination intensities between six popular wavelengths to protect samples from photodamage.

Excelitas Technologies Corp.
www.excelitas.com

Bruker Introduces Opterra II Multipoint Scanning Confocal Microscope



Bruker announced the Opterra II™ Multipoint Scanning Confocal Microscope featuring low photo-toxicity and photo-bleaching capabilities and delivering significant advantages over spinning disk confocal approaches, including enabling time-lapsed volumetric studies on previously inaccessible specimens. This performance is achieved through the system's unique ability to optimize an experiment's imaging conditions through real-time adjustment of imaging speed, resolution, and sensitivity. Additionally, the Opterra II provides sub-10% field uniformity deviation, allowing quantitative analysis, in all dimensions.

Bruker Corporation
www.bruker.com

Oxford Announces the Cypher ES Polymer Edition, an Atomic Force Microscope Optimized for Polymer Research



Oxford Instruments Asylum Research announces the Cypher ES Polymer Edition, an atomic force microscope (AFM) optimized for polymer research offering highest resolution, fast scanning, heating, and the most comprehensive suite of nanomechanical characterization tools. The Cypher ES Polymer Edition includes three exclusive nanomechanical characterization techniques, and for a limited time, special pricing and fast delivery is available for the Cypher ES Polymer Edition.

Asylum Research, an Oxford Instruments company
www.oxford-instruments.com/cypher-polymer-edition

The Olympus Sd-Osr Microscope Offers Both Super-Resolution and Confocal Modes in a Single System



The Olympus SD-OSR microscope system features both confocal and super-resolution modes. The technology combines 120-nm resolution, a cell depth penetration of more than 50 microns, and an image speed of three frames per second for advanced live cell imaging. The combination of resolution, depth, excellent contrast levels, and ultra-fast super-resolution imaging speeds gives researchers the flexibility to view subtle and dynamic processes taking place deep within cells.

Olympus Corporation
www.olympus-lifescience.com

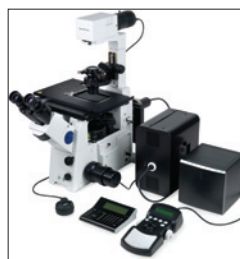
Compact XY Scanning Stage Based on Planar Air Bearings and Linear Motors Introduced by PI



Air bearings replace mechanical contact by a thin air film. The fully preloaded air bearings in the A-311 PIglide IS provide frictionless motion, resulting in negligible hysteresis or reversal error and zero-wear of mechanical components. Due to the air bearing's surface averaging effect, pitch/yaw/roll and straightness/flatness are significantly better than with conventional mechanical bearings, motion is vibration-free, and velocity can be controlled at very high constancy.

PI (Physik Instrumente) L.P.
www.pi-usa.us

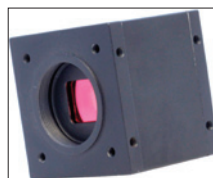
High-Performance Control System for Microscope Automation



The ProScan® III system from Prior Scientific provides a flexible, high-performance control system for Prior microscope accessories, including motorized stages, focusing devices, filter wheels, illumination devices, and shutters, as well as robotic sample loaders for well plates and slides. The ProScan III is designed to be versatile and simple to use, yet capable of automating complex microscopy applications that demand the best in precision and accuracy. It is compatible with most microscope software packages.

Prior Scientific Instruments Ltd.
www.prior.com

Mighty Cam 3.0 from Aven



A new USB 3.0 camera from Aven, Inc. lets any microscope be upgraded for faster imaging and video recording. Mighty Cam 3.0 captures up to 45 frames per second. Advanced speed makes it ideal for applications that benefit from reduced image lag times, such as biomedical research, scientific documentation, and analysis. The five-megapixel CMOS camera attaches easily to any scope with a C/CS adapter ring and plugs into a computer or monitor with the USB 3.0 cable.

Aven, Inc.
www.aventools.com

TECHSPEC® Imaging Filters Ideal for Machine Vision and Imaging Applications



Edmund Optic® introduced its new TECHSPEC® Imaging Filters. The TECHSPEC Imaging Filters pass or block specific UV, visible, or IR wavelengths and provide extremely wide angles of incidence. They exhibit exceptionally high and flat transmission profiles to provide even illumination. Optimized for use with popular LEDs, these RoHS-compliant filters feature an optical density of >3.0. TECHSPEC Imaging Filters provide superior blocking of unwanted light with excellent durability for longer lifetimes.

Edmund Optics®
www.edmundoptics.com

Orled Announces Model RL16LQX "XSight" Quadrant Driver with Laser Crosshair



Orled announces its new high-intensity ring light Model RL16LQX "XSight" with Laser Crosshairs. This patented crosshair system streamlines the process of locating and identifying small features in a microscope's field-of-view. Designed as an auxiliary light accessory for inspection microscopes, the RL16LQX XSight is ideal for circuit board rework and inspection and is the perfect choice for use in electronics, medical, and industrial manufacturing, as well as forensics, dental laboratories, and gemology.

Orled
www.ORLED.com