

ProductNews

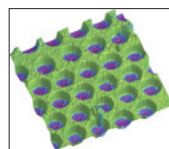
Fastec Imaging's IL5 High-Speed Camera



Fastec Camera allows you to record high-speed video of microscopic events. Both spatial and temporal magnification work in tandem to clarify understanding in applications such as microfluidics, where particles often move through the field of view very quickly. With four models to choose from 2560×2080 @ 230fps to 800×600 @ 1650 fps, there is an IL5 to fit your application needs. All models record over 3,200 fps at VGA resolution and more than 18,000 fps at smaller resolutions.

Fastec Imaging
www.fastecimaging.com

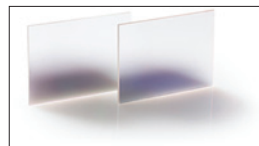
Bruker Introduces Complete Commercial AFM-Based SECM Solution



Bruker's Nano Surfaces Division today announced the release of scanning electrochemical microscopy (SECM) capability for its Dimension Icon® atomic force microscope (AFM) platform. Using a proprietary probe design, Bruker's new *PeakForce SECM™* mode controls nano-electrode tip position and tip-sample interaction with unprecedented precision to provide simultaneous capture of topographical, electrochemical, electrical, and mechanical maps. This capability provides access to previously unobtainable nanoscale observation of redox reactions and their kinetics.

Bruker Corporation
www.bruker.com

A New Femtosecond Pulsed Laser Beam Combiner that Enables Deeper Tissue Imaging



Semrock introduced their new Multiphoton LaserMUX beam combiners that enable deeper tissue imaging and improved contrast in multi-color and multi-modal fluorescence microscopy. The filters set new performance standards by simultaneously achieving high transmission, high reflection, and low GDD over both reflection and transmission, while maintaining minimal wavefront distortion. Ideal for combining two femtosecond pulsed laser beams, they are perfect for optogenetics and other life science applications.

Semrock, a unit of IDEX Health & Science, LLC
www.semrock.com/multiphoton-lasermux.aspx

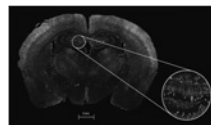
Nikon Introduces New DS-Fi3 Microscopy Camera and DS-L4 Tablet Interface



Nikon introduced its latest duo for capturing, viewing, and replaying high-resolution microscope images. The DS-Fi3 camera for microscopy features a 5.9 megapixel CMOS image sensor with greatly improved sensitivity and low-noise electronics, while the new DS-L4 tablet interface captures and records images and movies with exceptional color reproduction. By eliminating the need for a computer-based workstation, Nikon is addressing the needs of imaging professionals, scientists, and laboratory technicians working in fast-paced, mobile environments.

Nikon Instruments Inc.
www.nikon.com

Caliber I.D. Debuts the RS-G4, a New Class of Confocal Microscope



Fusing extraordinary speed with multiple wavelengths for very large-area imaging, Caliber I.D. launches the RS-G4, a new class of modular confocal microscope that delivers confocal's expected high resolution and clean contrast while overcoming its limited scan areas. The RS-G4 dramatically cuts the time required for efficient study of next-generation large-format samples, including brain slices, plant cross-sections, and large fields of cells or tissue critical for high-throughput screening.

Caliber Imaging & Diagnostics, Inc.
www.caliberid.com/rsg4-upright.html#

Olympus LC30 Color Microscope Camera



The new Olympus LC30 camera's sensitive CMOS sensor delivers up to 37 frames per second, making the Olympus LC30 fast and easy to control. The sensitivity of the LC30 camera can be increased by using various binning modes. The Olympus LC30 camera accurately reproduces and records colors using a patented color-correction technology;

Olympus color correction uses precisely calibrated International Color Consortium (ICC) profiles for optimal color reproduction, without requiring any time-consuming processing afterward.

Olympus Corporation
www.olympus-ims.com

Enhanced Capabilities Powers Next Generation of Eyepiece-Less Stereo Microscope



Vision Engineering is introducing an enhanced version of their acclaimed Lynx EVO eyepiece-less stereo microscope, now including the option of powerful zoom multipliers to increase total system magnification up to 240×. Unlike typical stereo microscopes, the patented eyepiece-less design of Lynx EVO eliminates the difficulty and strains of microscope use, providing unrivaled ergonomic performance to enhance operator productivity and ease of use.

Vision Engineering Ltd
www.visioneng.com

Pe-300^{ultra} – Precisely Controlled Illumination for High-Speed Fluorescence Microscopy



With the new pE-300^{ultra}, users of everyday fluorophores, such as DAPI, FITC, and TRITC and Cy5, have access to both microsecond switching via multiple TTL inputs and the ability to mount inline excitation filters. This, when paired with today's high-performance multi-band filter sets, facilitates imaging traditionally done via a white light source and a filter wheel, with all the benefits of LED.

CoolLED Limited
www.cooled.com

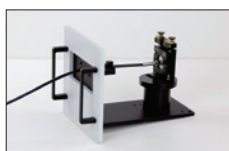
ZEISS Presents New Axio Observer Microscopes for Life Sciences



The ZEISS Axio Observer family consists of three stable and modular microscope stands for flexible and efficient imaging that combines the proven quality of ZEISS optics with new automation features. Among these features is *Autocorr*, which allows adaption of immersion objectives to varying conditions with concomitant correction of spherical aberrations. Another is the new *Autoimmersion* option, which maintains stable water immersion. Also included is *Definite Focus.2*, a novel hardware focus that automatically compensates for focus drift.

ZEISS Microscopy
www.zeiss.com/microscopy

PicoQuant Combines Fluorescence Spectroscopy and Microscopy



The recently developed fiber coupling sample holder for PicoQuant's time-resolved spectrometer FluoTime 300 makes it possible to interface the system with a microscope such as the MicroTime 100. This setup easily allows users to record time- and space-resolved emission spectra from any sample mounted in the microscope. Expanding the capabilities of a spectrometer with a microscope provides exciting opportunities for investigating the spatial dependence of luminescence behavior in a large variety of samples.

PicoQuant GmbH
www.picoquant.com

Controlled, Accurate Plasma Cleaner for TEM Sample Preparation

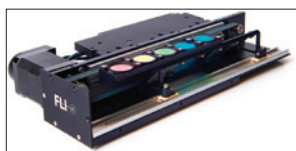


The HPT-100 TEMCLEAN is a bench-top glow discharge system that is suited to the routine cleaning of TEM sample holders/grids; it also cleans and prepares other individual items. The system features interchangeable re-entrant style adapters

for JEOL and FEI sample holders, as well as a removable parts carrier that can accommodate up to ten 25 × 75 mm glass microscope slides. Operation is via a color touchscreen interface that controls the cleaning cycle.

Henniker Plasma
www.plasmatreatment.co.uk

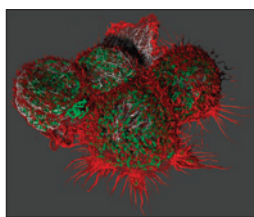
Finger Lakes Instrumentation Launches INCITE Cube Switcher



INCITE switches dichroics 10 times faster than traditional cube turrets. It changes dichroics and emission filters in 30 ms, and it replaces the stock turret in Nikon Eclipse series microscopes and synchronizes seamlessly with other system components. INCITE is especially suitable for live-cell imaging, multi-channel fluorescence, high-content screening, and multi-modal imaging. INCITE builds on FLI's track record of designing the fastest microscopy motion components available and collaborating with industry partners on custom solutions.

Finger Lakes Instrumentation
www.flicamera.com

Leica Microsystems Paves the Way to Access Imaging Beyond the Diffraction Limit



With the Super-Resolution Technology HyVolution 2 and the Leica TCS SP8 STED ONE Nanoscope, Leica Microsystems expands its product portfolio for light microscopy having resolution beyond the diffraction limit. With the HyVolution 2 Super-Resolution Technology allowing resolution down to 140 nanometers, processes and structures can be resolved in several colors simultaneously with high acquisition speed and high signal-to-noise ratio.

Leica Microsystems GmbH
www.leica-microsystems.com/products/confocal-microscopes/details/product/hyvolution-2/

Olympus DP74 Color Microscope Camera Provides Intelligent Real-Time and Fluorescence Imaging

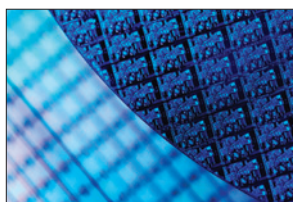


The new Olympus DP74 color fluorescence microscope camera combines advanced image processing technology, a low-noise design, and easy-to-use software to deliver smooth, true-to-life images in demanding life science and industrial applications. The features of the DP74 microscope camera

and intuitive workflow enhancements make it easy to capture realistic, high-quality images. The DP74 camera offers one of the widest fields of view currently available with a wide 16:10 aspect ratio.

Olympus Corporation
www.olympus-lifescience.com

Semiconductor Inspection Microscope Stage



The H116 stepper stage from Prior Scientific can accommodate 200 mm wafers, making it perfect for performing scanning of a wide range of semiconductor wafers and similar specimens. Offering a travel range of over 255 × 216 mm, the large-area scanning capability of the H116 stage

is exceptionally precise, with a minimum step size of 0.04 microns and a repeatability of ±0.7 microns. The accuracy of the H116 stage, enhanced by Prior's Intelligent Scanning Technology (IST), is unmatched.

Prior Scientific Instruments Ltd
www.prior-scientific.co.uk/Products/Motorized-Stages/H116.aspx?fid=2

New Vacuum Storage Solution for FIB, SEM, and TEM Samples



EM Resolutions announces the EM-Storr vacuum sample storage container, developed to protect EM samples under vacuum storage and transportation. It is available in versions for TEM grids, FIB half grids, SEM stubs of various types, and other valuable EM samples, protecting them from air, moisture, and dust. An added advantage is EM-Storr containers

can be stacked on top of each other saving valuable space in the EM laboratory.

EM Resolutions Limited
www.emresolutions.com/em-storr-vacuum-sample-storage-container