

ProductNews

Dolomite Offers High-Speed Imaging for Microfluidics



The Meros High Speed Digital Microscope features high-magnification optics and a zoom lens to ensure that millimeter- to micrometer-scale features can be visualized clearly, with extra-long working distance. Coupled with a high-speed USB 3.0 camera, this allows clear imaging of moving particles or cells, enabling quantitative analysis of droplet size at low flow rates—typically below 1kHz—and qualitative evaluation at production speeds of 2–15 kHz or higher, depending on droplet size.

Dolomite
www.dolomite-microfluidics.com

Renishaw Launches the New inVia™ Qontor™ Confocal Raman Microscope



Building on the market-leading inVia Reflex, the inVia Qontor adds a new dimension to the performance and ease of use for which inVia is renowned. The inVia Qontor sees the addition of Renishaw's latest innovation, LiveTrack™ focus tracking technology, which enables users to analyze samples with uneven, curved, or rough surfaces. Optimum focus is maintained in real time during data collection and white light video viewing. This removes the need for manual focusing.

Renishaw plc
www.renishaw.com/raman

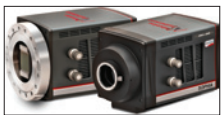
New JEOL “F2” Versatile S/TEM Offers Advanced Analytical Features



JEOL's most recent addition, the versatile JEM-F200, or “F2,” is the only advanced analytical, high-throughput 200kV S/TEM in its class to offer a Cold Field Emission Gun and dual Silicon Drift Detectors. The F2 features a quad lens condenser system that independently controls electron beam intensity (spot size) and convergence angle. The F2 operation is easier as well. More than 100 beam conditions can be selected at the push of a button.

JEOL USA
www.jeolusa.com

Next-Generation, Ultra-Low-Noise SOPHIA™ Cameras from Princeton Instruments



These cameras feature proprietary new ArcTec™ thermoelectric cooling technology. Based on a 2k × 2k sensor format, SOPHIA's multiple-port, back-illuminated CCDs leverage patented Princeton Instruments eXcelon® technology and provide an unprecedented combination of large pixel size, fast pixel speed, and minimal pixel noise. SOPHIA's 30.7 mm × 30.7 mm photosensitive array with 15 μm × 15 μm pixels detects 23% more photons per pixel than equivalent back-illuminated sensors that have 13.5 μm × 13.5 μm pixels.

Princeton Instruments
www.princetoninstruments.com

High-Speed Biological TEM Imaging System



AMT is pleased to announce the all-new BioSprint TEM imaging system. The BioSprint is a high-speed 16-megapixel TEM camera that employs the use of AMT's custom-engineered ActiveVu lens. The BioSprint is the fastest 16-megapixel TEM CCD camera available on the market. This system provides high-definition images that are perfect for any life science application. With this information dense pixel format, users can digitally zoom final images up to 4x.

Advanced Microcopy Techniques, Corp.
www.amtimaging.com

Versatile mPrep™ Automated Processor Extends Capabilities in Busy Labs



Using a single automated processor from Microscopy Innovations, busy EM labs can now prepare and embed specimens and stain grids and perform complicated immunolabeling with no manual intervention. The mPrep™ ASP-1000 offers new capabilities and increased throughput on all your projects, freeing highly trained scientists for other activities. Intuitive, flexible interface makes it easy to conduct standard protocols or customize with up to 72 reagent steps, unlimited rinses, additional agitations, or multi-parameter processing.

Microscopy Innovations LLC
www.microscopyinnovations.com

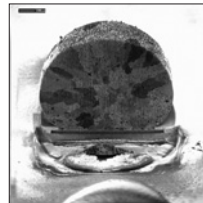
The New OLYMPUS BX53M System Microscope



Olympus' new BX53M System Microscope features a user-friendly upright design, easy-to-adjust aperture settings, and an LED illuminator that enables users to change observation methods by simply turning a dial. Additional features include: the ability to quickly restore previously used settings for repeatable test results, advanced imaging functions including directional dark field and MIX, and a 50 mm × 100 mm flat-top stage that accommodates larger samples. When combined with new OLYMPUS Stream 2.1 Image Analysis Software, the BX53M simplifies workflow.

Olympus Corporation
www.olympus-ims.com

HyperFIB Services



Using plasma FIB technology, our HyperFIB tools offer unparalleled means to analyze your device or material. Operating 300x faster than Ga FIB and 20x' more precise than a laser, our services include: delayering and imaging complete integrated circuits (the entire die), including cross-sectioning BGA solder balls, gold wires, stacked die, and printed circuit boards to uncover critical features and explore failure mechanisms; and shaping and smoothing surfaces over large and small areas.

Applied Beams LLC
www.appliedbeams.com

Rust-Resistant Self-Contained Workstation



The MicroFlow I Workstation is a ductless carbon-filtered workstation equipped with activated carbon filtration, designed to collect small amounts of non-hazardous fumes and odors. The workstation is self-contained and can be easily moved from station to station. Clear hood surround with safety viewing sash, for user variable-speed fan control, provides the option of

high and medium speeds, or low flow for sensitive operations. The workstation allows easy change out of used filters and is equipped with a filter change light.

HEMCO Corporation
www.HEMCOcorp.com/mfi.html

JPK Releases the NanoWizard® 4 NanoScience AFM



JPK is pleased to announce their latest AFM system, the NanoWizard® 4 NanoScience AFM. The new NanoScience system raises the bar in terms of technical performance to deliver new capabilities for users. It features a powerful fast scanning option, delivering images every three seconds to enable users to track dynamic processes. Additionally, with the QI™ mode, quantitative imaging is possible with outstanding high resolution.

JPK Instruments AG
www.jpk.com

New Camera Package: OcularCINEMA™ HD



The OcularCINEMA™ HD camera package offers a CMOS-based color imaging camera that delivers true progressive scan real-time high-resolution video to the largest displays and/or computers simultaneously. The OcularCINEMA™

HD camera package provides effortless connection to a microscope with the included 0.35X C-mount optical adapter compatible with most OLYMPUS®, LEICA®, and NIKON® microscopes.

Optronics
www.optronics.com

Model RL16X “Xsight” Quadrant Driver with Laser Crosshair



Orled announces its new high-intensity ring light Model RL16X with Laser Crosshairs. This patented crosshair system streamlines the process of locating and identifying small features in a microscope's field-of-view. The RL16X includes an LED ring light

with adjustable quadrant illumination, two targeting lasers, and a control unit for attenuating the lasers and LED lighting array. The two targeting lasers emit fans of light that create a bright crosshair pattern on the microscope stage.

Orled
www.orled.com

Ultra-Stable Microscope Platforms for Electrophysiology and Neuroscience



Prior Scientific's Z-Deck range is a high-quality, height-adjustable platform designed specifically for upright microscopes widely used in electrophysiology and neuroscience. Compatible with most commercially available vibration isolation tables, the

Z-Deck offers an exceptionally stable platform ensuring that your experimental area is as smooth and vibration-free as possible. The Z Deck's top surface breadboard design (6mm holes on 25mm centers) is ideal for accurately and quickly mounting equipment.

Prior Scientific, Inc.
www.prior.com

MANTIS Imaging Colorimeter/Photometer



G&H Instruments' MANTIS Imaging Colorimeter/Photometer delivers ultra-fast high-resolution spatially resolved measurements of luminance, chromaticity, and color temperature. It is compact, rugged, and ideal for full-field measurements of automotive and aerospace lighting and displays in high-speed production test environments.

Optronic Laboratories LLC
www.GHinstruments.com

Hirox RH-2000 3D Digital Microscope



The new model includes a host of new features such as a new CMOS camera, refined hardware design, and modern touchscreen interface. At the heart of the new RH-2000 is a new CMOS sensor capable of capturing images 50 fps of continuous HD video at 1920 × 1200 pixels with high pixel density. The latter allows for highly precise measurement performance; it has much wider dynamic range with increased signal to noise ratios, regardless of increasing contract levels.

AXT Pty. Ltd.
www.axt.com.au

Bruker Introduces MultiMode 8-HR AFM



Bruker's Nano Surfaces Division announced the release of the MultiMode 8-HR Atomic Force Microscope (AFM). The new nanomechanics features of MultiMode 8-HR enable researchers to access the broadest range of ramp frequencies for viscoelastic studies and nanomechanical assessment of a wide range of materials, from soft biological specimens to hard metallic samples. The high-resolution and data processing capabilities of the MultiMode 8-HR are the result of its combination of rigid, mechanical design and advanced control electronics.

Bruker Nano Surfaces Division
www.bruker.com/nano