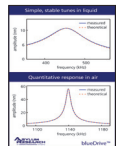


ProductNews

Asylum Research Introduces blueDrive™ Photothermal Excitation for Atomic Force Microscopy Imaging and Nanomechanics



Asylum Research announced blueDrive photothermal excitation, an option available exclusively for Asylum's Cypher™ Atomic Force Microscopes. blueDrive makes tapping mode imaging remarkably simple, stable, and accurate. blueDrive replaces the conventional piezoelectric excitation mechanism with a blue laser to directly excite the AFM cantilever photothermally. This results in an ideal cantilever drive response in both air and liquids, which provides significant performance and ease-of-use benefits.

Asylum Research, an Oxford Instruments company
www.AsylumResearch.com/blueDrive

Next Generation EVO Delivers Workflow Automation and High-Definition Imaging



Workflow productivity is improved by automated image settings such as beam alignment, magnification, and focus, allowing the imaging of areas of interest in the shortest possible time. A user-friendly mid-column click-stop aperture changer is introduced for reliable and reproducible results. EVO allows imaging of exceptionally fine surface details with crisp contrast. Beam deceleration technology and a high-definition BSE detector provide images rich in topographical information.

The Carl Zeiss Group
www.zeiss.com

JPK Launches the Fast-Scanning, Super-Resolution NanoWizard ULTRA Speed AFM System



JPK Instruments have launched an AFM system capable of delivering fast scanning and super resolution on a single instrument platform, the NanoWizard® ULTRA Speed AFM. Scanning at speeds of greater than 100 Hz line rate with true atomic resolution in closed-loop mode is enabled by the enhanced low noise of scanner, position sensor, and detection system. The new AFM system uses JPK's QI™ (Quantitative Imaging) mode to provide quantitative material property mapping.

JPK Instruments AG
www.jpk.com

confovis Introduces Portal Measuring System for Optical Lenses



confovis expanded its portfolio by introducing a measuring system for the optical industry. The portal system with its positioning unit allows fast non-contact quality inspection of the surface integrity of optical lenses down to the nanometer range. It enables free rotation and swiveling of the optical surface. In this way the system detects the height, depth, width, radii, and angles of flaws at any point on the lens and generates informative 3D analyses.

confovis GmbH
www.confovis.com

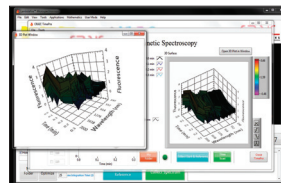
Molecular Devices Announces Next-Generation SpectraMax MiniMax 300 Imaging Cytometer



Molecular Devices® announced the SpectraMax® MiniMax™ 300 Imaging Cytometer. It enables both cellular visualization and first-of-its-kind, stain-free, cell-based analysis on the field-upgradable SpectraMax® i3 Multi-Mode Microplate Reader. Brightfield and fluorescence-based green and red channel cellular image acquisition and analysis is made simple using the SoftMax Pro® software workflow. Combining cellular imaging with stain-free cell counting and confluency measurements with microplate-based applications will speed scientists' work flow.

Molecular Devices, LLC
www.moleculardevices.com

Time-Dependant Spectroscopy of Microscopic Samples



CRAIC Technologies introduced CRAIC TimePro™ kinetic spectroscopy software. It is designed to be used with CRAIC Technology's microspectrophotometers and their controlling LambdaFire™ software. CRAIC TimePro™ allows the user to monitor changes in the spectra over time. The most unique feature is that this software will allow users to measure the time-dependant changes in full UV-visible-NIR range reflectance, absorbance, and even emission spectra of microscopic samples, providing a valuable tool for everything from chemistry to biological research.

CRAIC Technologies
www.microspectra.com

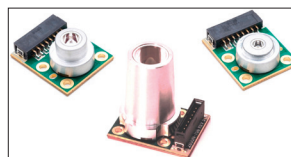
High-Throughput Serial Block Face Imaging with JEOL FE SEM and Gatan 3View®



JEOL, Ltd. announced a joint initiative between JEOL and Gatan that brings the power of Serial Block Face imaging to the JEOL family of scanning electron microscopes. Researchers will be able to image 3D structures of biological and materials samples at ultra-high resolution using the JEOL JSM-7100F Field Emission Scanning Electron Microscope with an integrated Gatan 3View® Serial Block Face Imaging System.

JEOL USA, Inc.
www.jeolusa.com

High Power, UV LED Light Engines for Fluorescence Imaging, UV Curing, and 3D Printing



Innovations in Optics, Inc. introduces a full product line of LumiBright UV LE™ Ultraviolet LED light engines. The versatile and powerful solid-state sources are ideal for UV applications. The benefits of UV LEDs as compared to traditional mercury arc UV lamps are numerous and significant. UV LEDs are more energy-efficient, smaller, and operate with consistent emission. UV LEDs are instant-on.

Innovations in Optics, Inc.
www.innovationsinoptics.com

Connect Adapt Wi-Fi Camera from Aven Upgrades Microscopes



Aven unites wireless technology and micro-photography with the Connect Adapt Wi-Fi Camera, which upgrades microscopes for use with mobile devices. This accessory turns an existing inspection system into a wi-fi hotspot able to send high-quality images to iOS and Android devices within about 30 feet. No internet connection or wireless network is needed. The pocket-size Connect Adapt and accompanying eyepiece adapter attach easily to virtually any microscope.

Aven, Inc.
www.aventools.com/sales-info.html

Bruker Introduces High-Performance Opterra™ Multipoint Scanning Confocal Microscope



Bruker introduced the Opterra Multipoint Scanning Confocal Microscope. The Opterra microscope uses a number of innovative features to obtain the speed of wide-field imaging and the resolution of traditional confocal systems while minimizing phototoxicity, making it an ideal solution for gentle and fast confocal imaging of live cell preparations.

A seven-position pinhole/slit aperture allows the Opterra to be optimized for varying objective lens magnifications that results in the ability to image deeper into tissue.

Bruker Corporation
www.bruker.com

Vision Research Adds a Model to Phantom Line of Digital Ultra-High-Speed Cameras



The new Phantom v2010 is almost 40 percent faster than the Phantom v1610, with the ability to capture more than 22,000 fps at full resolution. The v2010 boasts top performance and maximum flexibility within the ultra-high-speed 1-megapixel Phantom family of cameras. These top-of-their-class cameras represent three of the world's fastest

CMOS-based digital cameras featuring high-definition and widescreen 1280 × 800 CMOS sensors.

Vision Research, Inc.
www.visionresearch.com

Hitachi SU3500 Premium VP-SEM with Real-Time 3-D Image Observation Available with 4-Axis Motorized Stage



Hitachi announced that its latest VP-SEM system, Model SU3500, is now available with a 4-axis motorized stage, in addition to the existing 5-axis motorized stage system. The new 4-axis version is targeted for smaller sample applications (max. 200 mm in diameter and 70 mm in height). The 4-axis motorized stage system features the same

innovative electron optics and signal detection systems as the 5-axis motorized stage system.

Hitachi High Technologies America, Inc.
www.hitachi-hta.com

hexaCUBE—Integrated 6D Motion Solution



attocube has developed the six degrees of freedom hexaCUBE positioning system. The hexaCUBE combines extremely stiff design and long travel range with nanometer repeatability in 6D. The hexaCUBE combines six (linear) closed-loop piezoelectric motors within an assembly of highest precision ball joints and linear bearings, enabling true motion in 6D with stunning accuracy and repeatability. With its sample platform design with integrated aperture, the hexaCUBE is perfectly suited for the ultra-precise alignment of optical and mechanical components.

attocube systems AG
www.attocube.com

Now Researchers Can Tailor Make Their Own UV Viewing Systems



The Spectroline® CC-80 and CC-81 are ideal for use in chromatography, electrophoresis, genetic research, photoresist coating inspection, forensic science, and much more. Researchers can custom design their own fluorescence analysis systems by choosing from a wide range of Spectroline

UV lamps that are available in 254, 312, and 365 nm wavelengths. For even higher UV intensity and greater fluorescent contrast, users can select from 29 Spectroline UV transilluminators.

Spectroline Corp.
www.spectroline.com

WSKM Stage Top Incubator for Live Cell Imaging



WSKM system supports optimal cell-culture environment (temp, humidity, and CO₂). Features of the WSKM Incubator include: it does not require an enclosure, unique heating method allows maintaining sample temperature uniformly, the well plate can be observed with a high mag. objective, it can accommodate well plate and small vessels, and it can be installed on manual and XY motorized stages. It is especially efficient for short/long-term time-lapse, scanning, TIRF/high-resolution microscopy, confocal/fluorescence, and any transmitted-microscopy favored in the live-cell-imaging field.

Tokai Hit Co., Ltd.
www.tokaihit.com

Retiga™ 3000 and 6000 Fluorescence Snapshot Cameras from QImaging



The Retiga 3000 and 6000 fluorescence snapshot cameras from QImaging capture twice the image area in a single frame, resolve finer details with lower magnifications, and scan for rare cellular events in less time. The Retiga 3000 offers 2.8 million pixels, a 4.54 μm pixel pitch, and a high quantum efficiency of 75%. With 6.05 million pixels and a 16 mm sensor diagonal, the Retiga 6000

exploits the full microscope FOV, capturing twice the image area of most standard fluorescence cameras.

QImaging
www.qimaging.com