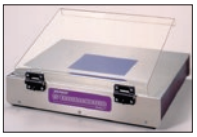
ProductNews

New Industrial 3-CCD Camera Delivering 120 Frames/S

JAI announced that the company has added the AT-030MCL 3-CCD color progressive area scan camera to the company's Apex series of prism-based industrial color cameras. The AT-030MCL is a 0.3-megapixel camera delivering high frame rates and is a complement to JAI's popular AT-140 and AT-200 3-CCD. The new camera—equipped with Mini Camera Link interface—offers a combination of high speed, VGA resolution, and low price point.

JAI, Inc
www.jai.com

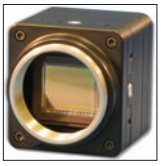
Ultra-Slim UV Transilluminator Conquers Space



Spectronics Corporation's Slimline™ Series UV transilluminator measures only 11½ × 14 × 2¼ inches, the size of the average laptop, yet it has virtually all the features of larger, more expensive transilluminators. The Slimline transilluminator delivers a typical peak 312 nm intensity of 9,000 mW/cm^2 at the filter surface. It's ideal for visualization and photodocumentation of mini gels. A unique diffusing screen ensures superior light distribution and eliminates confusing light striations caused by the contours of the tubes.

Spectronics Corporation
www.spectroline.com

PHOTONIS Introduces the NOCTURN Low-Light CMOS Camera



The NOCTURN camera perfectly fits applications where high-resolution detection and ultra-high sensitivity are required under 24/7 conditions. The sensor enables the camera to provide a consistent read noise below 4e$^-$ at rates up to its full 100 fps, with superior signal-to-noise performance due to its large 9.7 µm^2 pixels and high fill factor. The sensor, with full SXGA resolution (1280 × 1024), operates in both daylight and low-light levels as low as bright starlight.

PHOTONIS USA, Inc.
www.photonis.com

Aven's New Mighty Scope Connect Shares Wirelessly with Tablets and Phones

Aven, Inc. brings wireless networking to portable microscopy with the advanced Mighty Scope Connect. This handheld scope can display magnified images and video on three tablets or smart phones simultaneously—a breakthrough for medical offices, engineering teams, research collaborators, educators, and others working in groups. By serving as a wi-fi "hotspot," the innovative Mighty Scope Connect eliminates the need for an Internet connection or wireless network access.

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

A Clever Cleaver You Can't Live Without

The LatticeAx™ is a cost-effective, accurate, high-throughput, wafer-cleaving solution. Laboratories with high sample volume may also need to relieve the bottleneck existing around expensive capital equipment. Additionally, it may not be practical to invest in high-end cleaving equipment but easy to envision LatticeAx™ stations for cleaving. The LatticeAx™ can fit in the palm of your hand so it easily fits in the laboratory with optical microscopes and other sample preparation tools.

Electron Microscopy Sciences
www.emsdiasum.com/microscopy

e2v launches Color Versions of its ELiiXA+ Line Scan Cameras

e2v launched color versions of its ELiiXA+ line scan cameras. The new color 16k/8k and 8k/4k cameras are based on e2v's multi-line CMOS technology. They provide users with a true color mode, making them ideal for high-resolution document scanning, the inspection of printing, and high-quality raw material surfaces. e2v has designed its ELiiXA+ camera family specifically to provide advanced speed, supreme sensitivity, and high resolution.

e2v technologies plc
www.e2v.com

FEI Announces New Tecnai Arctica TEM for Structural Biology Research

FEI announced the availability of its Tecnai Arctica™ transmission electron microscope (TEM) for structural biology research. The Tecnai Arctica incorporates sophisticated automation, pioneered on FEI's flagship Titan Krios™ TEM, to elucidate the three-dimensional structure of biological macromolecules and molecular complexes. With the addition of the Tecnai Arctica, FEI now offers a portfolio of structural biology workflows to accommodate a broad range of facilities and budgets.

FEI Company
www.fei.com/tecnai_arctica

WITec Launches StrobeLock for Time-Resolved Measurements

WITec launched StrobeLock, a time-correlated single photon counting measurement option. The imaging modes include Fluorescence Lifetime Imaging and Time-Resolved Luminescence Microscopy, which can be integrated with the WITec alpha300 and alpha500 microscope series. StrobeLock facilitates the acquisition of additional material contrasts hidden in the time function of a fluorescence or luminescence signal and allows them to be perfectly linked with Raman, SNOM, or AFM imaging. It is specifically suited for materials science.

WITec GmbH
www.witec.de

Prior Scientific Introduces the LumaSpec 800 Compact Microscope Illumination Spectrometer

Prior Scientific's ultra-compact spectrometer for microscopy applications, the LumaSpec 800, provides quantitative spectral data for virtually any microscopy light source. Using an illumination target in a 3″ × 1″ glass slide format, the LumaSpec 800 is able to check microscope illumination at the sample plane. The LumaSpec 800 provides quantitative and graphical information from 350 nm to 800 nm with 1.5-nanometer resolution, providing a quick and easy tool for quantifying your illumination system.

Prior Scientific, Inc.
www.prior.com

Quantum Scientific Imaging, Inc. Announces the QSI RS Series of Deep Cooled CCD Cameras

The QSI RS Series features a broad range of full-frame and interline transfer CCDs from 768 × 512 pixels up to 8.3 MP. Dual read rates of up to 8 MHz with high-speed USB 2.0, deep cooling to greater than 45C below ambient, and full 16-bit pixel depth allow QSI RS Series cameras to produce high-quality images with high frame rates, extremely wide dynamic range, excellent linearity, and exceptionally low noise.

Quantum Scientific Imaging
www.QSImaging.com

Pfeiffer Vacuum Introduces Energy-Saving Dry Pumps A 100 L ES

The dry pumps A 100 L with their compact dimensions were specially developed for flexible integration in semiconductor production facilities. These dry multi-stage roots pumps are ideal for clean applications such as load-lock chambers and transfer chambers as well as for all other noncorrosive applications. The further development, the A 100 L ES, cuts energy consumption by up to 50%. Its pumping speed is significantly higher in the low-pressure range.

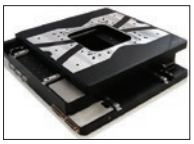
Pfeiffer Vacuum, Inc.
www.pfeiffer-vacuum.com

New SEM Large Specimen Sputter Coater from Electron Microscopy Sciences

EMS has launched the EMS300 Series of sputter coaters, suited for sputtering a single large-diameter specimen up to 200 mm, or smaller multiple specimens over a similar diameter. The EMS300 is available in three formats: the EMS300R T, a low-cost rotary pumped coater; the EMS300T T, a turbo molecular pumped platform; and the EMS300T D, a dual head system that will sequentially deposit two different metals without the need to break vacuum.

Electron Microscopy Sciences
www.emsdiasum.com

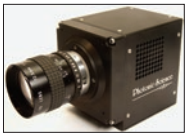
XY Precision Linear Stage for Metrology and Microscopy Applications



The PI miCos MCS XY positioning system can handle loads to 45 lbs and still provides resolution as high as 5 nanometers and repeatability of 0.2 µm thanks to its novel PIOne interferometric linear encoder. Resolution of 1 nm is feasible with reduced maximum speed. The system is for use in fields where excellent straightness of motion and high dynamics are important. A large clear aperture of 150 × 150 mm is beneficial in transmitted light applications.

Physik Instrumente (PI)
www.pi-usa.us/news/news_MCS_Precision_XY_Linear_Translation_Stage_Metrology.php

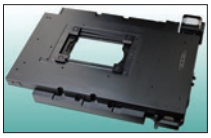
Gigabit Ethernet Vision (GEV) sCMOS Compliance Offers Easy Upgrades to MicroManager Users



Photonic Science introduced new sCMOS cameras for microscopy and spectroscopy applications. The cameras are operated with open source software such as MicroManager and do not require any frame grabber. They come as a straightforward and affordable upgrade to existing cooled CCD camera systems struggling to deliver high sensitivity, high dynamic range, high resolution, and high frame rate. Compliance with Gigabit Ethernet Vision standard allows operation with multiple platforms.

Photonic Science limited
www.photonic-science.com

Prior Scientific Introduces the H117IX3 ProScan Stages for Olympus IX3 Microscopes



Prior Scientific introduced the H117IX3 flat top stage for the Olympus IX3 microscope range. Although the H117IX3 is ideal for all high-precision biomedical and material science scanning operations, specific attention was given to designing the H117IX3 to assist the researcher who is doing prolonged live cell studies. The stages offer a travel range of 114 mm × 75 mm and are enabled with Intelligent Scanning Technology (IST) to ensure the highest precision available.

Prior Scientific, Inc.
www.prior.com.

Aven Gemscope's Multiple Light Sources are an Advance for Jewelers, Gemologists

This specialized binocular stereo microscope has a magnification range of 10× to 44×. Upper and lower illumination assures bright, distortion-free surface and interior inspection of diamonds, other gemstones, crystals, and jewelry-grade minerals. A dimmable halogen lamp is supplemented by a halogen pipe light, as well as an independently controlled 9-watt fluorescent front light. A movable gem tweezer with two positioning posts holds specimens firmly in several locations.

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