AMC100 – New Motion Controller Enhances Power and Usability

attocube announced its new controller AMC100, which is available for all Industrial Line temperature positioners. The new hardware features higher peak currents to improve the performance of the positioners. It is available in an open-loop version or with integrated feedback loop for optoelectronic /NUM(+-)-sensors. The new control unit offers Ethernet connectivity and a redesigned GUI, which allows for intuitive and easy operation of unlimited number of controllers in a single window.

www.attocube.com

New Thermo Scientific Prisma SEM Combines Performance and Versatility

The newly released Thermo Scientific Prisma SEM platform incorporates an extensive selection of detectors, in situ stages, automation packages, and its environmental mode to make it one of the most complete offerings on the market. It can be configured as a lean “point-and-shoot” solution for industrial customers or augmented with an array of specialized imaging and analysis options for the researcher. It lets customers buy confidently, knowing they have an optimal solution for their needs.

www.thermofisher.com

JAI Introduces New Go Series Polarization Camera

JAI has added a new model to its Go Series of small and versatile machine vision cameras. The GO-5100MP-USB is built around Sony’s IMX250MZR polarized CMOS image sensor, offering 5.1 megapixels of total resolution and an innovative 4-way polarized filter design creating a range of possibilities for imaging and analysis of objects. The camera features a full resolution of 2464 x 2056 pixels with a 2/3” optical format and pixel sizes of 3.45 µm x 3.45 µm.

www.jai.com

Magnetically Levitated Turbopumps

The Pfeiffer Vacuum HiPace M high-performance magnetically levitated turbopumps have high pumping speeds (300 l/s, 700 l/s, and 800 l/s), have high gas throughput, and achieve high compression ratios for all gases. These pumps are optimized to run in all mounting orientations with a low vibration signature and quiet operation. An advanced rotor design provides unlimited rotor service life, out of balance compensation, and dependable operation. They are maintenance-free and oil-free.

www.pfeiffer-vacuum.com

Recirculating Gas Cooler

Janis Research Company, LLC

www.janis.com/RecirculatingCryocooler_MicroscopyToday.aspx

HyperFlux™ PRO Plus

Tornado Spectral Systems

tornado-spectral.com

FWS Fluorimeters

Spectroline, Inc.

www.spectrolineinc.com/product-category/fluorimeter

Bunton Instrument Introduces RetroBOT – Motorized XYZ for Upright Optical Microscopes

Bunton Instrument Co., Inc.

www.buntgrp.com

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www.spectrolineinc.com/product-category/fluorimeter

Bunton Instrument Introduces RetroBOT – Motorized XYZ for Upright Optical Microscopes

Bunton Instrument Co., Inc.

www.buntgrp.com
Bruker Introduces FluidFM on the BioScope Resolve BioAFM

Bruker announced the launch of FluidFM® on the BioScope Resolve® AFM. For the first time, cell biology researchers can combine the femtoliters-scale fluid control and injection capability of Cytosurge’s FluidFM technology with the force control, resolution, and speed that is only available with Bruker’s PeakForce Tapping® technology. The combined product opens the door to a whole range of novel single-cell investigations, including colloidal probe spectroscopy, single-cell injection, and single-bacteria adhesion studies.

Bluebox Optics Launches a New Modular LED Light Source

With up to seven LED channels, the niji delivers powerful, multi-wavelength excitation from UV to Far Red. The niji allows users to start with one LED only—with its modular mainframe up to six more LEDs can be added at a later time, offering additional excitation center wavelengths, excitation bands, and output power options as and when they are needed.

EDAX Launches New Velocity™ EBSD Camera

EDAX, Inc. launched its new Velocity™ EBSD camera, which offers high-speed EBSD mapping with the highest indexing performance on real-world materials. Powered by a CMOS sensor, the Velocity™ EBSD camera combines indexing speeds greater than 3,000 indexed points per second. At these speeds, the Velocity™ uses 120 × 120-pixel EBSD patterns for improved band detection. This image resolution, combined with proven EDAX triplet indexing routines, provides orientation precision values of less than 0.1°.

New Back-Illuminated pco.panda 4.2 bi from the Pioneers in sCMOS Technology

PCO is introducing its latest camera innovation: pco.panda 4.2 bi (back-illuminated), a state-of-the-art sCMOS camera. It features the same compact 65 × 65 × 65 mm dimensions of the renowned pco. panda 4.2. PCO’s new back-illuminated sensor provides outstanding quantum efficiency up to 95%. These attributes, among others, make the pco.panda 4.2 bi camera of specific interest for microscopy and life science applications.

Introducing High-Speed, Ultra-Low-Noise SOPHIA-XO Cameras for Soft X-Ray Applications

Princeton Instruments announced the SOPHIA-XO camera platform, specially designed for scientific applications such as VUV/EUV/XUV imaging, X-ray diffraction, X-ray microscopy, X-ray holography, X-ray spectroscopy, and X-ray plasma. The new SOPHIA-XO cameras use back-illuminated CCDs for direct detection of the widest range of VUV and X-rays (~5 eV to 30 keV). These new XO camera models are extensions of Princeton Instruments’ popular SOPHIA® product line.

Modular Lab Furniture Systems Designed to Meet Space and Budget Needs

UniLine Furniture offerings include base cabinets, wall cabinets, countertops, sinks, fixtures, base-tables, mobile work stations, specialty storage cabinets, and peg boards. Our Uniline Casework Groupings are designed to incorporate our most popular casework styles in a complete package. Our services can also include a complete turnkey installation to ensure the one-source quality standards that you expect and deserve.

JAI Introduces High-Speed 4K Prism Color Line Scan Camera

JAI has introduced a new 3-CMOS prism color line scan camera in its Sweep+ Series camera family. The new SW-4000T-MCL features three custom CMOS line sensors with 4K resolution mounted on a high-grade optical prism assembly that precisely splits the incoming light into red, green, and blue wavebands. The new camera provides 24-bit non-interpolated RGB output at up to 67.7 kHz, more than four times faster than any previous 4K prism color line scan camera.

Princeton Instruments
www.princetoninstruments.com

Blueboxoptics
www.blueboxoptics.com

AMETEK EDAX
www.edax.com/velocity

PCO AG
www.pco.de/scmos-cameras/pocopanda-42-bi

Princeton Instruments
www.princetoninstruments.com

HEMCO Corporation
www.HEMCOcorp.com/labfurn.html

JAI Inc.
www.jai.com

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