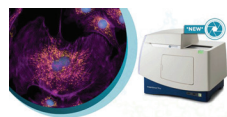


## ProductNews

### Molecular Devices' ImageXpress Pico Automated Cell System



The ImageXpress Pico Automated Cell System is more than a digital microscope, combining high-resolution imaging with powerful analysis. Whether running fluorescence or bright-field imaging assays, the automated imager features a

comprehensive portfolio of preconfigured protocols for cell-based analyses to shorten the learning curve. Features included with the ImageXpress Pico are Digital Confocal 2D on-the-fly deconvolution, Live Preview, and multi-wavelength cell scoring. The ImageXpress Pico provides the ability to advance your discoveries with a small and affordable imager.

Molecular Devices  
www.moleculardevices.com

### Olympus Launches Next-Generation XRD with New SwiftMin® Software for Real-Time Onboard Quantitative Mineralogy and Phase Analysis



The Olympus portable TERRA™ II and Benchtop BTX™ III mobile XRD analyzers offer SwiftMin automated quantitative XRD software, a streamlined user interface, pre-programmed calibrations, and an improved

X-ray detector for increased productivity without the need for a technical expert. Both XRD instruments feature new SwiftMin® software, which provides automated mineral/phase ID and quantification in real-time directly on the analyzer. The intuitive software interface comes with time-saving features for image analysis.

Olympus  
www.olympusamerica.com

### Protochips Introduces Axon Software for *in situ* TEM



Protochips AXON software completely redefines the *in situ* TEM experience. It puts your sample

front and center as you change *in situ* conditions, at all magnifications. Your focus is where it belongs: on your sample, at all the key moments you want to capture. AXON streamlines processes of collecting quality data. Experiment conditions are synchronized with images, making data analysis easier before and after the imaging session. AXON works with most TEMs and holders.

Protochips  
www.protochips.com

### Hyperion VUV Vacuum Ultraviolet Source from KM Labs



The Hyperion ultraviolet source provides bright femtosecond pulses at numerous wavelengths across the vacuum ultraviolet (VUV) range, from 6.0 eV (205 nm) to 10.8 eV (115 nm). The discrete tunability of the Hyperion VUV enables researchers to study a wide range of materials and material properties. A simple computer-selected change of photon energy provides a powerful capability previously only available at a synchrotron facility, which can enhance many experiments.

KM Labs  
www.kmlabs.com

### Coxem Introduces the New Tabletop Scanning Electron Microscope EM-30N



The Coxem EM-30N features re-designed electronics for improved resolution, less noise, and wide-area scanning. Included SE and BSE detectors allow side-by-side or composite imaging. Low-vacuum mode for work with non-conductive samples, integrated SEM and EDS functions for compositional particle analysis, and a built-in optical camera for viewing multi-sample holders and navigation are included. Advanced image analysis including line profile analysis for accurate determination of particle size and automated real-time automatic brightness/contrast functions simplify operation for novice users.

Coxem  
www.coxem.com or www.elementpi.com

### Lumencor's ZIVA Light Engine

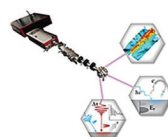


In Lumencor's ZIVA light engine, seven individually addressable lasers are combined with advanced electronic control to deliver superior optical power, stability, and reproducibility. Structured illumination microscopy (SIM) and other super-resolution microscopy techniques are well supported. The ZIVA light engine is optimized for coupling to narrow bore

fibers ( $\leq 200 \mu\text{m}$ ) to generate ultra-high radiance from a small emitting area. These capabilities are assembled in a compact, pre-aligned, benchtop device.

Lumencor, Inc.  
https://lumencor.com

### QM Quantum Microscope™ from KM Labs

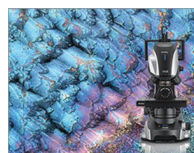


The QM Quantum microscope offers an advanced imaging solution in a fully integrated platform enabling ultrafast spectroscopy in the EUV range, as well as high-contrast, near surface-to-subsurface imaging at the nanoscale. It enables laboratory-

based 2D high-contrast imaging of composition and structure, study of mechanical properties of patterned films, deep understanding of material properties, and functional characterization of spintronic, ALD, 2D, low-density lightweight, energy, space, and photovoltaic materials.

KM Labs  
www.kmlabs.com

### The Keyence VHX-7000 Provides Surface Analysis for any Sample



The Keyence VHX 7000 is a fully automatic XYZ system with adaptive lighting features and more flexibility than a typical microscope. With this material-independent, laser-based microscope, users have the ability to view, capture, and measure 3D profiles and roughness with one

device, capture SEM-like images with no sample preparation, and measure coating thickness without cross-sectioning the sample.

Keyence  
www.keyence.com

## Rave Scientific: Advantages of Brass, Gold-Plated SEM Sample Holders



Brass-constructed SEM holders with a gold coating have many advantages. Brass provides strength and is non-magnetic, and the one-micron gold plating assists in keeping the sample holders clean during handling. The gold plating is chemically resistant allowing the use of cleaning solutions or plasma cleaning. Clean sample

holder surfaces reduce contamination transfer to the samples. These holders are intended for use with table-top SEMs, laboratory-grade SEMs, and FESEMs, and they are compatible with SEMs produced by all manufacturers.

Rave Scientific  
<https://ravescientific.com>

## HEMCO MicroFlow I Rust-Resistant Self-Contained Workstation



The MicroFlow I Workstation is a ductless workstation equipped with activated carbon filtration that collects small amounts of non-hazardous fumes and odors. The MicroFlow I workstation is completely self-contained with an integral recessed work surface to contain spills. A clear hood and sash can be conformed

for use with a microscope, and a variable-speed fan provides high, medium, and low speeds (low flow for sensitive operations). The system operates on 115 v AC or 230 v and conforms to UL, CSA, and CE requirements.

HEMCO Corporation  
[www.hemcocorp.com](http://www.hemcocorp.com)

## B&W Tek's QTRam Raman Spectrometer for Quantitative Analysis of Active Pharma Ingredients



How is the quantity of the active pharmaceutical ingredients determined? Through technological advances the portable QTRam<sup>®</sup> transmission Raman spectrometer provides rapid and non-destructive quantitative analysis for content uniformity, formulation development, and counterfeit detection of tablets and capsules. The software is easily operated and fully 21CFR Part 11 compliant. The QTRam<sup>®</sup> has sample holders for different tablet sizes and shapes.

B&W Tek  
<https://bwtek.com>

## B&W Tek's i-Raman Prime



B&W Tek's i-Raman<sup>®</sup> Prime is a high-sensitivity and high-throughput fully integrated Raman system with an embedded tablet computer and fiber optic probe sampling. Using a high-quantum-efficiency CCD array detector with deep cooling (-25°C) and high dynamic range, this portable Raman spectrometer delivers research-grade

Raman capabilities including real-time quantitation and identification capabilities with excellent signal-to-noise ratio, making it possible to measure even the slightest Raman signals found in studying biological systems.

B&W Tek  
<https://bwtek.com>

## Abberior Instruments Presents the Facility Line Microscope



The Abberior Facility Line is a cutting-edge microscope that combines advanced features such as high-end confocal and super-resolution imaging, adaptive illumination (DyMIN, RESCue) and optics, easy3D STED, spectral Rainbow Detection, and full auto-alignment—all with incredible

ease of use. The software was designed to allow beginners to intuitively arrive at a top-notch confocal and STED nanoscale-resolution image within three clicks, while also allowing expert users full control over the instrument.

Abberior Instruments  
[www.abberior-instruments.com/products/facility-line](http://www.abberior-instruments.com/products/facility-line)

## PELCO BioWave Pro+ Provides Enhanced Processing Efficiency

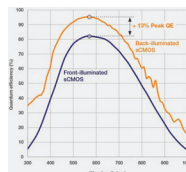


The new design of the Ted Pella PELCO BioWave<sup>®</sup> Pro+ introduces features that make it ideal for active core

facilities. Enhancements include live run-time graphs, improved protocol selection, variable wattage and PELCO Coldspot technology, and internal load cooler and vacuum that improves efficiency and streamlines functionality in specimen processing. The Report/Protocol Manager (RPM) app is also designed to meet diagnostic laboratory regulations for reviewing recorded data for each protocol.

Ted Pella, Inc.  
[www.tedpella.com/microwave\\_html/pelco-biowave-pro-plus-microwave-system.htm#TT](http://www.tedpella.com/microwave_html/pelco-biowave-pro-plus-microwave-system.htm#TT)

## World's Most Sensitive Back-illuminated sCMOS Cameras



The latest model in the Sona back-illuminated sCMOS microscopy camera series has arrived. The new Sona 4.2B-6 provides a superb balance of sensitivity, speed, and resolution, making it perfectly suited for many challenging imaging applications. Key features of the Sona Series include high sensitivity of up to 95% QE, speeds up to 74 fps, up to a 32 mm field of view, cooling to -45°C, and a protected UltraVac<sup>™</sup> sensor enclosure.

Oxford Instruments  
<https://andor.oxinst.com/products/scmos-camera-series>

## Edwards Rotary Pump Noise Dampening from Rave Scientific



Jagged lines in an image at high magnification may come from multiple sources. A possible source can be the environment, including EM fields, vibration, and acoustic noise. For problems arising from vacuum rotary pumps, a cost-effective way to address the issues include the use of rubber feet on the pumps to dampen the vibration from the floor or a pump enclosure. Rave Scientific offers both of these solutions to dampen noise originating from rotary pumps.

Rave Scientific  
<https://ravescientific.com>