

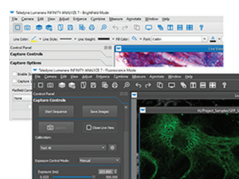
IndustryNews

A New AXT Website

AXT, based in Australia, is a leading supplier of a wide range of high-technology scientific equipment for sample preparation and analysis for academic and industrial applications in geology, life sciences, mining and resources, and nanotechnology. The website below provides dynamic segments, such as the life sciences link shown here, that are directed to the latest technologies in an area of interest.

AXT
www.axt.com.au/segments/life-sciences

INFINITY ANALYZE 7 Microscopy Software by Teledyne Lumenera



Teledyne Lumenera has released the INFINITY ANALYZE 7 software for microscope camera control, image capture, and image processing for the life sciences, clinical, and industrial research applications. The software allows production of high-quality images with accuracy

and reproducibility in bright-field or fluorescence modes. INFINITY ANALYZE 7 includes a new fluorescence mode with streamlined image processing, improved application usability for better workflow, and application settings to facilitate shared equipment environments.

Teledyne Lumenera
www.lumenera.com

Photonic Science Announces its New SWIR HDR Camera



The new SWIR HDR camera from Photonic Science features in-camera corrections and a high dynamic range mode with an InGaAs sensor that has 640 × 512 pixels at 15 μm pitch. Frame rates up to 300 fps are available with excellent performance for semiconductor inspection, hyperspectral

imaging, photoluminescence, and laser beam profiling applications. Four-point in-camera non-uniformity corrections, low defective pixel count, and a HDR mode for extended dynamic range are also available.

Photonic Science
www.photonicsscience.com

Hemco Vented Hood Tabletop Workstation 24200



HEMCO provides a versatile vented hood system for sample preparation in histology, microprocessor development, microscope stations, student workstations, and the handling of pharmaceuticals. Constructed of chemical-resistant, lightweight, advanced composites, it can be moved as procedures

and workflow change. Dimensions are 24" wide × 15" deep × 24" high. The molded chemically resistant work surface is recessed to contain spillage, and a 3" diameter outlet collar is provided for duct connection.

HEMCO
<http://hemcocorp.com>

Allied Vision Announces Three New High-Resolution Prosilica GT Cameras

The new Prosilica GT Large Format cameras with Sony Pregius™ CMOS sensors leverage high-resolution imaging systems to the next-level. With resolutions up to 31.4 MP at varied aspect ratios, versatile high-definition imaging applications can be addressed, with demanding requirements on robustness and design-in flexibility. Specifications for the Prosilica GT 6400, 5400, and 4400 cameras can be found at the website below.

Allied Vision
www.alliedvision.com/en/digital-industrial-camera-solutions.html

Boston Electronics New Microscope Temperature Controller



Boston Electronics VAHEAT dynamic thermal control allows precise control of temperature in live tissue samples, maintaining true and accurate temperature of samples within the field of view of the microscope. Even when

working with immersion medium, VAHEAT avoids excessive heating of the objective or other optical components. VAHEAT uniquely maintains temperature in samples that are prepared on a smart substrate (disposable) that is equipped with a transparent heating element and a precise temperature probe.

Boston Electronics Corporation
www.boselec.com

First UV-C LED Product Certified to NSF/ANSI 55-2019 Standard



AquiSense Technologies has the world's first NSF/ANSI 55-2019 Standard for its PearlAqua Micro range. The PearlAqua Micro is the world's smallest UV-C LED water treatment system. The range

includes 5 discrete model sizes, offering flow rates of up to 8 lpm and third-party validation disinfection performance of up to 6-log (99.9999%) pathogen reduction. It can be integrated at the point of use and offers 12 or 24 VDC input voltage, automatic on/off control, multiple sensing/alarm options, and customizable housing options.

Aquisense Technologies
www.aquisense.com

Canon Medical Acquires Toshiba's Imaging Systems Division

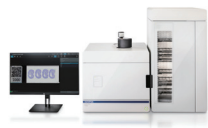


The Video Sensing Division of Canon Medical Systems USA, Inc. (Tustin, CA) announced that Canon Medical will complete its acquisition of the Video Sensing Division (VSD), formerly known as TAIS' Imaging Systems Division (ISD), effective

October 1, 2019. Globally, the professional video camera business has been integral to the Japan-based Canon Medical organization since October 2016.

Canon Medical Systems USA
www.us.medical.canon/VSD

Olympus SLIDEVIEW™ VS200 Slide Scanner



Reliable, Flexible, and High-Throughput Slide Scanning enables higher resolution and flatter images for outstanding digital slides for quantitative data analysis by employing Olympus X Line objectives.

The SLIDEVIEW™ captures high-quality virtual slide images, offers flexibility to empower advanced quantitative image analysis for brain, cancer, stem cell and drug discovery research. Its intuitive workflows enable users to start scanning a slide in as few as two clicks. Imaging modes include brightfield, fluorescence, darkfield, phase contrast and polarization.

Olympus
www.olympus-lifescience.com/en/solutions-based-systems/vs200

Linkam Updates Cryo Stage for Correlative Microscopy



The CMS196V3 Cryo-Correlative Microscopy system enables a full workflow for correlative light and electron microscopy (CLEM) for correlation of high-resolution structural information with biochemical processes within cells. This model can integrate with a

wide range of research-grade upright microscopes and offers enhanced sample stability for cryo-imaging, improved sample handling, and reduced sample contamination. It maintains the sample's vitrified state by liquid nitrogen cooling, providing proven capabilities to safely handle and transfer cryo samples.

Linkam Scientific
www.linkam.co.uk/clem

Tomocube Wins *Microscopy Today* Innovation Award for HT-2 Microscope



The world's first holotomographic microscope with 3D fluorescence was recognized as a photonics breakthrough by the 2019 *Microscopy Today* Innovation Awards. Quantitative phase imaging (QPI) of label-free 3D refractive index (RI) tomography combined with fluorescence imaging reveals the structure, volume, surface area, concentration, and dry matter mass of individual live cells in real time.

Holotomography and fluorescence correlative analysis in 2D, 3D, and 4D will advance research for a better understanding, diagnosis, and treatment of disease.

Tomocube
www.tomocube.com/product/ht-2

Coxem Announces a New Representative

Kardon Consulting announced a new representative for element Pi and Coxem electron microscopes in the Northeast US. Don Becker of Kardon Consulting said, "Element Pi and Coxem have experienced sustained growth over the last few years by offering electron microscopes and accessories that provide advanced features at an affordable price." Kardon provides sales and support for Coxem SEMs, and accessories such as vibration isolation solutions, sputter coaters, microscopy software, and more.

Kardon Consulting
www.kardonconsulting.com

Pfeiffer Vacuum Opens New Plant in Wuxi, China

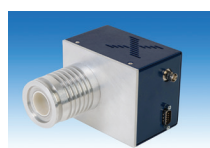


Pfeiffer Vacuum celebrated the expansion of its facility in Wuxi, China, on October 23, 2019. Doubling its original size, the new facility marks a milestone in Pfeiffer Vacuum's development in China. It allows better response to local customer needs while supporting growth in the coating and semiconductor market. The larger facility will allow for production

of dry pumps, new leak detection systems, and the assembly of pumping stations.

Pfeiffer Vacuum
www.pfeiffer-vacuum.com/en

XEI Scientific Awarded Patent for External Hollow Cathode



XEI Scientific was awarded the patent *Plasma Device with External RF Hollow Cathode for Plasma Cleaning of High Vacuum Systems* used in Evactron® E-50 and U50 models. The E-50 is XEI's most popular *in situ* downstream plasma cleaner for SEMs, with easy plasma ignition directly from high

vacuum using the "POP" ignition process. The electrode is outside the plasma to eliminate particulate production. This hollow cathode source operates with 50 watts of RF power to generate the plasma.

XEI Scientific
<https://evactron.com/xei-scientific-awarded-a-patent-for-its-external-hollow-cathode-design>

Olympus Objectives Receive Innovation Award

Olympus' X Line™ series objectives have been awarded a *Laser Focus World* Innovation Award. The X Line objectives were designed with new manufacturing technology that creates lenses with shapes that are difficult to fabricate using other methods. The result is improved image flatness, chromatic aberration correction, and numerical aperture. With these advancements, users can acquire bright, high-quality images throughout the entire field of view, helping to improve quantitative data acquisition and the speed of creating large, stitched images.

Olympus
www.olympus-lifescience.com/en/discovery/x-line-objectives-win-a-2019-laser-focus-world-innovation-award

KMLabs Laser Products Acquired by Thorlabs

Thorlabs has acquired the KMLabs' Y-Fi™ portfolio, a family of high average power, high repetition rate NIR/MIR ultrafast fiber lasers, OPAs, and NOPAs. Based on a patented fiber amplification technique, KMLabs' ytterbium fiber lasers provide industry-leading short pulse durations at the microjoule level. The various models in the Y-Fi laser series are employed in a multitude of demanding ultrafast applications, including 2- and 3-photon imaging, ophthalmology, and time-resolved studies in the NIR and MIR.

Thorlabs and KMLabs, Inc.
www.thorlabs.com and www.kmlabs.com