

IndustryNews

New Leica Imagers Set to Transform Visualization of 3D Samples

Leica Microsystems has announced the launch of a new class of instruments for high-speed, high-quality imaging of a large diversity of samples, including thick specimens. THUNDER Imagers allow one to visualize clearly in real-time details, even deep inside thick samples of biologically relevant models like model organisms, tissue sections, and 3D cell cultures. This makes THUNDER Imager a cost-effective and speedy alternative to methods like structured illumination or spinning disc.

Leica Microsystems GmbH
www.leica-microsystems.com

Metal Coated Substrates for Characterizing Self-Assembled Monolayers

AMSBIO is a leading supplier of gold, silver, and platinum coated substrates for nanotechnology researchers looking to use these surfaces to characterize self-assembled monolayers using atomic force microscopy (AFM), or scanning tunneling microscopy (STM). Gold, silver, and platinum surfaces offer a clean, near atomically-flat surface that is ideal for applications in nanotechnology, such as studies on self-assembly, single-molecule imaging, nano- or micro-contact printing, DNA origami, or nanophotonics.

AMS Biotechnology (AMSBIO)
www.amsbio.com/gold-coated-substrates-slides.aspx

Olympus Driving Science Education with BioBus Collaboration

Olympus is proud to support the BioBus program, two mobile science laboratories that operate with a mission “to help minority, female, and low-income K–12 and college students in New York City discover, explore, and pursue science.” The mobile labs, equipped with Olympus microscopes, various specimens, and artifacts, and staffed by scientists, visit pre-K through 12th-grade classes for inquiry-based, hands-on, standards-aligned lab sessions. BioBus has reached a quarter-million students in the past decade.

Olympus
BioBus.org

ZEISS ZEN Core Software Suite Offers New Analysis and Connectivity Modules

ZEISS ZEN core is a powerful software suite for microscopy imaging, automated analyses, and multi-modal workflows in connected materials laboratory environments. With the new release, materials researchers are now more efficient. ZEISS ZEN core is used as a powerful tool for image analysis and interactive control of microscopes. As a lab infrastructure solution, ZEISS ZEN core enables multi-modal workflows in connected lab environments with a single general user interface.

ZEISS Research Microscopy Solutions
www.zeiss.com/microscopy

Bruker Announces Acquisition of Scientific Software Provider Arxspan LLC

Bruker Corporation announced that it has acquired Arxspan LLC, a provider of cloud-based scientific software and workflow solutions, based in Southborough, Massachusetts. Bruker can now provide a range of software tools for customers in the chemistry, pharmaceutical, biopharma, and analytical laboratory markets. Together with the Mestrelab strategic partnership and majority investment, the acquisition of Arxspan will allow Bruker to offer state-of-the-art chemistry and biopharma software tools, supporting discovery and development.

Bruker Corporation and Arxspan LLC
www.bruker.com and www.arxspan.com

Allied Vision Celebrates 30th Company Anniversary

Allied Vision Technologies GmbH was founded as Manfred Sticksel CCD-Kameratechnik GmbH in Alzenau near Frankfurt/Main. Since then, Allied Vision has become one of the world’s leading camera manufacturers for the machine vision industry with eight locations in Germany, Canada, the USA, Singapore, and China and a network of sales partners in over 30 countries. Allied Vision said, “With ALVIUM® technology, we have laid the foundation for the successful development of future powerful camera series.”

Allied Vision
www.alliedvision.com

Basler Launches Intelligent Lighting Solutions

Camera manufacturer Basler now offers lighting solutions for image processing systems. In cooperation with CCS, the world’s leading manufacturer of LED lighting for machine vision applications, Basler has developed a comprehensive portfolio of various lighting components.

The new and unique lighting concepts are designed for Basler ace U and L cameras equipped with the Basler SLP feature. Basler’s patent-pending feature enables direct communication between the camera and the light source.

Basler AG
www.baslerweb.com

USC-Olympus Innovation Partnership in Multiscale Bioimaging

The University of Southern California and Olympus have announced a co-development partnership in Multiscale Bioimaging to advance multiscale research into cancer prevention, diagnosis, and treatment through precision medicine. With Olympus technology and the expertise of university-wide institutes, the partnership demonstrates the clinical utility of new technologies that combine the workflow of a surgical biopsy and primary diagnosis with microscopic cellular and molecular characterization. The goal is a personalized medicine and treatment selection.

Olympus Scientific Solutions Corp. (US)
www.olympus-lifescience.com

All-New MICROCAST PRO Microscope Cameras



OPTRONICS® announced the introduction of the next-generation MICROCAST®, the MICROCAST® 4K PRO™, 3CMOS 2160p Ultra High Definition and MICROCAST® HD PRO™, 3CMOS

1080p High Definition microscope video cameras for surgical and other technical microscope imaging applications including pathology, research, bio-medical R&D, and pharmaceutical R&D. The new MICROCAST PRO video camera systems are recognized as industry-leading, high-performance microimaging cameras for broadcasting, recording, and presenting high-resolution 4K and HD video as seen in the microscope oculars.

OPTRONICS
www.OPTRONICS.com

Cytosmart Raises 5.2 Million Euros for Further Product Innovation and Growth

CytoSMART, the company that develops and manufactures digital microscopes for monitoring live cell cultures, has received 5.2 million Euros to fund the growth of their business. The funding will be used by CytoSMART to further develop its microscopes and to expand its international sales and marketing strategies. CytoSMART has created three highly innovative microscopes that scientists can use to digitally and remotely count, screen, check, and film their cell cultures.

CytoSMART Technologies
www.cytosmart.com

Focus Stacking App from TAGARNO

With the Focus Stacking app from TAGARNO, the operator can create one ultra-sharp image in seconds regardless of the object shape. With Focus Stacking, the operator adjusts the focus height until the object areas furthest away from the camera are in focus. The focus height is then changed to focus on the object areas closest to the camera. The app then stacks the photos on top of each other to create one ultra-sharp image.

TAGARNO
www.tagarno.com

Ultra-Sharp STM Tips for Nano-Micro Probing

NaugaNeedles, the specialty scanning probe microscopy (SPM) probes manufacturer, continues to empower researchers and scientists through cutting-edge nanoprobe solutions. NaugaNeedles has developed a propriety recipe to fabricate ultra-sharp high aspect ratio probes using W and Pt/Ir wire. Scanning tunneling microscopy (STM) probes are example of high-quality products we offer. They come at different shapes, materials, and sharpness: Ultrasharp W, Pt Ir nanoprobe, and Ag₂Ga nanoneedles.

NaugaNeedles
http://nauganeedles.com

Bruker is Three-Time Winner of The iF DESIGN AWARD 2019



Bruker has been awarded the *iF DESIGN AWARD* for three different products, ranking them among the most innovative instrumentation designers. Prizes were awarded to the FT-IR spectrometers INVENIO and

ALPHA II, as well as to the FT-NIR spectrometer MPA II in the categories "Industry" and "Medicine/Health" of the discipline "Product Design." The *iF DESIGN AWARD* is presented once a year by the iF International Forum Design GmbH in Hannover, Germany.

Bruker
Bruker.com

Phasefocus Secures Additional Investment To Prioritize Livecyte 2 Launch

Phasefocus, the Sheffield-based company supplying tools to help researchers develop cures for cancer and stem cell therapies, has secured additional investment as it prepares to launch the newest version of its flagship live cell imaging and analysis system, Livecyte™. Livecyte enables research biologists to automatically quantify and compare dynamic live cell behavior in an easy-to-use standard assay format, without the need for fluorescent labels.

Phase Focus, Ltd
www.phasefocus.com

Rave Scientific S-Clip Sample Holders

Rave Scientific offers the EM-Tec S-Clip sample holders. These holders are comprised of one or more spring-loaded sample clips (S-Clips) either on an SEM sample stub or a SEM sample holder. The spring-loaded S-clips are specifically designed to hold thin specimens up to 2 mm on a holder. Optional stand-off pillars are available to accommodate thicker samples. Small washers can also be used to increase the clamping height.

Rave Scientific
ravescientific.com

Heraeus Noblelight Introduces the First Broadband UV LED Light Source Module for Analytical Measurement

Heraeus Noblelight GmbH announced the debut of FiberLight™L3, the first broadband UV LED light source module for analytical measurement instruments. FiberLight™L3 is the first light source module that combines the benefits of LED technology, such as long lifetime and low power consumption, with broadband UV spectral output, which is desirable for optical analytical instruments because it provides the flexibility to perform both qualitative and quantitative analysis with one instrument.

Heraeus Noblelight GmbH
www.heraeus-noblelight.com/FLL3