

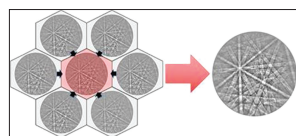
IndustryNews

Allied Vision 1 Product Line Wins Award

The French metrology magazine *mesures* presented an award to Allied Vision's camera platform and its ALVIUM® Technology. The experts confirm that the innovative approach of Allied Vision's 1 Product Line, building the bridge between embedded and the PC-based vision systems, earned the award. Designed for embedded vision applications, and fulfilling the high standards of industrial and scientific image processing, the platform combines the performance of a machine vision camera and the advantages of an embedded camera.

Allied Vision
www.alliedvision.com

EDAX Granted Patent for Neighbor Pattern Averaging and Reindexing (NPAR) Routine



EDAX received a U.S. patent for the technology that underlies its NPAR™ Electron Backscatter Diffraction (EBSD) routine in EDAX's TEAM™ and OIM

Analysis™ software packages. The NPAR™ method improves the indexing quality of individual pixels in an EBSD map by averaging the diffraction patterns from a kernel of pixels around the pixel of interest. The method is most beneficial for those samples that previously provided low-quality diffraction patterns.

EDAX Inc.
www.Edax.com

UConn School of Engineering Announces UConn-ZEISS Partnership and Introduces a New Microscopy Center

The UConn School of Engineering announced the launch of a new UConn-ZEISS partnership with the opening of a new, state-of-the-art laboratory, the Reverse Engineering, Fabrication, Inspection and Nondestructive Evaluation (REFINE) Lab. Over 150 years ago, Carl Zeiss and physicist Ernst Abbe partnered to achieve global success. Since then, more than 20 Nobel Prize winners have relied on ZEISS microscopes to conduct their research.

University of Connecticut and ZEISS Group
www.zeiss.com and news.engr.uconn.edu

Navitar Launches New Sensor Integration Business Unit

Navitar will add additional alignment and test equipment to their recently expanded ISO Class 7 clean room. Additionally, the Sensor Integration group will immediately begin producing camera modules combining Navitar large-format, athermal HDR lenses with Pixelink (acquired by Navitar in January 2017) standard sensor boards using Sony IMX CMOS sensors, to be sold as off-the-shelf products. Robert Podlena will lead the new group as Vice President, Sensor Integration.

Navitar, Inc.
www.navitar.com

The Institute of Photonic Science, Barcelona Becomes a New Nanoscopy Imaging Reference Site for Leica Microsystems

October 6, 2017, marked the beginning of a new partnership between ICFO - The Institute of Photonic Sciences in Barcelona and Leica Microsystems. The new collaboration agreement aims to promote and establish ICFO as a new European Nanoscopy Imaging Reference Site for Leica. As such, ICFO's experts in super-resolution will partner with Leica Microsystems to conceptualize and implement technological improvements to the state-of-the-art systems from Leica.

Leica Microsystems
www.leica-microsystems.com

OPTRONICS® and Ikegami® Announce Distribution Partnership

OPTRONICS announced a new partnership agreement with Ikegami for distribution of their complete line of ultra-high-definition video camera systems and video accessories for use on microscopes and other industrial visual inspection applications. OPTRONICS provides its end customers and distribution partners a wide range of imaging solutions for many different microscope applications. Ikegami has been supplying high-quality medical equipment for microscopy, endoscopy, and 3D medical imaging applications for more than three decades.

OPTRONICS
www.optronics.com

Semrock Launches SearchLight™ App for Android Devices

Semrock has launched the SearchLight™ app for Android-based devices. SearchLight™ is an online spectral plotting and analysis tool that allows fluorescence microscope users and optical instrument designers to model and evaluate the spectral performance of fluorophores, filter sets, light sources, and detectors as components of an overall system. Its intuitive user interface makes it easy to manipulate spectral component specifications and plot spectral results. Downloading the SearchLight™ app is free.

Semrock, a unit of IDEX Health & Science, LLC and IDEX Health & Science LLC
www.idex-hs.com

Fluorescent Tags and Nanoparticles Compared as Imaging Tools

Prior Scientific's H117 motorized precision stage was used in a study comparing the characteristics of traditional fluorescent probes with SERS NPs, where the two methods were used to fluorescently image both live and fixed cells. A home-built Raman microscopy system, incorporating an H117 stage, was a key part of this system. Especially important was that the H117's large travel range (114 × 75 mm), which ensured that a large field of view was easy to image.

Prior Scientific, Inc.
www.prior.com

Calibrated Glass and Oil Standards for Glass Refractive Index Measurements



CRAIC Technologies announced the introduction of its Glass Refractive Standards set, used to calibrate instruments that are designed to measure the refractive index of microscopic fragments of glass and glass-like materials. The Refractive Index Glass Standards set consists of both calibrated glass samples and immersion liquids calibrated for refractive index versus temperature. These standard reference materials are designed to be in compliance with the standard test

methodology defined by ASTM 1967.

CRAIC Technologies, Inc.
www.microspectra.com

pE-230^{fura}



In collaboration with the University of Strathclyde, CoolLED is launching the pE-340^{fura}, a LED illuminator for Fura-2 imaging that also supports everyday fluorescence microscopy in a compact and affordable package. The 340 nm and 380 nm LED illumination system provides excitation wavelengths for Fura-2-based

calcium imaging allowing high-precision, stable, high-throughput imaging with video-rate time resolution. The inherent stability of the LED illumination reduces the noise level of the light source to a range below that of the wider experiment.

CoolLED
www.cooled.com

Introducing the IXplore Series: Solutions-Based Microscopy

The IXplore solutions are inverted microscope packages tailored for specific research applications. Based on the flexible design of IX3 series microscopes, these configurations take the guesswork out of experiment setup while also providing significant savings. There are five components in the IXplore Series, including manual microscope configurations, motorized microscopy, and advanced microscope modalities such as live cell and spinning disk imaging down to 120 nm. See our webpage for more details.

Olympus Scientific Solutions Americas
www.olympus-lifescience.com

EM-Tec Versa Plate Adaptable Sample Holders

This sample holder consists of a flat base plate with sizes that range from 82 mm² to 150 mm². A set of movable sample holding brackets can be positioned to perfectly suit the size and shape of the sample. Each bracket can be rotated fully 360° and is fastened on the base plate by a screw. The brackets include an M3 stainless thumb screw to secure the sample. The multiple bracket position capability makes this one of the most versatile SEM sample holders.

Rave Scientific
ravescientific.com

3D Stereo Camera System



IC 3D is an end-user software for the capture of 3D data produced by The Imaging Source's stereo camera system. This stereo camera system can be used with a variety of cameras from The Imaging Source

and can be easily adjusted to new working distances and depths of field through the modification of camera distances and angles. The IC 3D software offers a convenient user interface for system calibration and the capture and visualization of 3D data.

The Imaging Source
www.theimagingsource.com

JPK Reports the Research at the Max Planck Institute of Biochemistry Using the NanoWizard® ULTRA Speed AFM

Dr. Henri Franquelim, a researcher at the Max Planck Institute of Biochemistry, has applied AFM to study the remodeling aspects (controlling lateral segregation, bending, etc.) of biological lipid membranes. In recent collaboration work with partners from the Ludwig Maximilian University of Munich, Dr. Franquelim further used the fast-scanning JPK NanoWizard® ULTRA Speed AFM to image with seconds/frame rates how photo-switchable ceramides upon photo-activation can reversibly modulate the structure of lipid raft-mimicking domains.

JPK Instruments AG
www.jpk.com

Poking into Liquid Surface and Live Cells using AFM

NaugaNeedles offers high-aspect-ratio crystalline Ag₂Ga NeedleProbes with cylindrical shape ending in a semi-hemisphere. Due to the geometry and atomically flat surfaces of these nanoneedles, they can be used for force-distance (F-D) AFM measurements of wetting and drag forces. Using the NeedleProbes, a simple F-D measurement can quantitatively measure surface tension, contact angle, meniscus height, and viscosity of the liquid of interest.

NaugaNeedles LLC
www.NaugaNeedles.com

Quorum Announces New Customer Support and Demonstration Facilities for Users Worldwide

Quorum announced new demonstration and support facilities in China. The new facility is in Nanjing, China, at Nanjing Agricultural University in association with distributor partner, the Nanjing Tansi Technology Company. Complementing instrumentation and training, Quorum has recently introduced a revised range of service and maintenance contracts to meet the changing needs of users, abetted by Quorum's Extended Warranty Option of up to three years on nearly all products supplied by the company.

Quorum Technologies
www.quorumtech.com/systems-and-equipment