

## IndustryNews

### Edmund Optics® Releases New Imaging Optics Catalog and Technical Content

Edmund Optics® released its latest catalog designed exclusively for their imaging, machine vision, and inspection customers. The catalog features over 800 unique stock imaging lenses, cameras, filters, illumination, and more. EO has created this easy-to-use guide for selecting imaging components. From fundamental parameters to advanced concepts, each section is designed to help you understand what is involved in building an imaging or machine vision system.

Edmund Optics®  
www.edmundoptics.com

### Detect Non-Metallic Inclusions Faster and More Accurately with Leica Steel Expert 2.0



Leica Microsystems announces the release of their Steel Expert 2.0 software for automatic analysis of non-metallic inclusions in steel alloys. The software runs an automatic steel inclusion rating program that inspects samples for non-metallic inclusions and provides

fast, accurate, and reproducible purity measurements of steel alloys. Leica Steel Expert 2.0 replaces the visual comparison charts that were previously used to characterize non-metallic inclusions.

Leica Microsystems GmbH  
www.leica-microsystems.com

### FEI Granted AEO Certification

FEI has been granted Full AEO (Authorized Economic Operator) Certification as a compliant and trustworthy partner in doing global business. Furthermore, the AEO status grants certain benefits enabling further optimization of FEI Global Supply Chain and cost reduction. FEI has implemented the solid Supply Chain Security (SCS) program, supported by clear and well auditable procedures and effective “safety & security” measures. FEI has also established controls on financial aspects of import and export transactions.

FEI Electron Optics B.V. / FEI Europe B.V.  
www.FEI.com

### Singapore Researchers Use FEI Titan S/TEM to Link Plasmonics with Molecular Electronics

FEI congratulates its customers, National University of Singapore, Singapore University of Technology and Design, and the A\*STAR institutes: Institute of High Performance Computing and Institute of Materials Research and Engineering, on their recent discovery of quantum plasmonic tunneling. Using a Titan™ scanning/transmission electron microscope (S/TEM), the scientists were able to not only observe this new phenomenon directly, but also control the frequency of the tunneling currents.

FEI Company  
www.fei.com

### Researchers Honored with the 2014 WITec Paper Award for their Outstanding Scientific Publications

The winners of this year’s WITec PaperAwards have been announced. The annual awards honor outstanding scientific publications that feature results acquired with a WITec instrument. Scientists from all over the world submitted more than 60 publications. The gold goes to Y. Hao et al. at the University of Texas. Silver winners are Foucher and Westall from CNRS in France. Bronze goes to Kann and Windbergs from Saarland University, Germany.

WITec GmbH  
www.witec.de

### Leica Microsystems and MBF Bioscience Announce a Partnership in the United States to Offer Analysis Systems for Life Science Research

Leica Microsystems and MBF Bioscience announced a partnership to offer Leica Microsystems’s microscopes fully integrated with MBF’s NeuroLucida and Stereo Investigator software. This partnership gives researchers new tools to analyze tissue specimens and discover information about the brain, spinal cord, eye, and lung. This tight integration allows NeuroLucida and Stereo Investigator software to display the microscope image onto a computer monitor.

Leica Microsystem and MBF Bioscience  
www.leica-microsystems.com and www.mbfbioscience.com

### CoolLED’s pE-300-White—Broad-Spectrum Illumination

With a broad-spectrum illumination, and matched to existing filter sets, the pE-300-White provides mercury-free illumination for the fluorescence laboratory. Intensity control in 1% steps and instant on/off are available via the manual Control Pod. A special feature of the pE-300-white is that stains can be illuminated independently or together. In conjunction with an appropriate multi-band filter set, there is no need to move filter positions on a microscope. Reduced background and no pixel-shift can be achieved.

CoolLED  
www.cooled.com

### Andor Launches Zyla sCMOS USB 3.0 Cameras with Market-Leading Frame-Rate Performance

Andor Technology Ltd. announced the launch of USB 3.0 versions of the ultrasensitive, high resolution Zyla sCMOS camera platform. Offering unparalleled frame rate performance of up to 53 fps from a 4.2 megapixel array, coupled with extremely low read noise and wide dynamic range, the Zyla USB 3.0 models are good price/performance options for a wide range of microscopy applications, such as ion signaling, super-resolution, light sheet, and TIRF.

Andor Technology Ltd.  
www.andor.com/zyla

## Toshiba Nanoanalysis Corporation Expands Capabilities with ZEISS Xradia 520 Versa

The Kawasaki, Japan-based Toshiba Nanoanalysis Corporation has selected the recently introduced ZEISS Xradia 520 Versa 3D X-ray microscope (XRM) to expand the capabilities of its busy analysis lab. Toshiba Nanoanalysis offers imaging services for complex analytical demands in semiconductor, biosciences, and materials science research for industry and academia. The Xradia 520 Versa was designed for studying hard-to-image materials and the evolution of their microstructures within industrial and scientific laboratory environments.

Carl Zeiss X-ray Microscopy, formerly Xradia, Inc  
www.zeiss.com/microscopy

## Olympus Adds New Features to Inspector Series Software

An advanced image-analysis software system that helps turn Olympus microscopes into high-performance analysis stations, OLYMPUS Inspector Series software provides users with accurate, reproducible particle size and distribution data. In response to increasing requirements for particle counting and cleanliness inspection, Olympus recently launched Inspector Series 5.64, which includes all-new versions of OLYMPUS Filter Inspector. With the release of Inspector Series 5.64, Olympus introduces users to a host of new software features.

Olympus Corporation  
olympus-ims.com

## TECHSPEC® Germanium Meniscus Lenses Provide Superior Spherical Correction

TECHSPEC Germanium Meniscus Lenses feature a wavelength range of 2–16  $\mu\text{m}$ . They offer outstanding spherical correction and smaller spot size than comparable lenses. Eighteen different RoHS-compliant lens varieties are offered in 25 mm or 50 mm diameters and focal lengths from 25 mm to 100 mm, either uncoated or coated for the 3–5  $\mu\text{m}$  or 8–12  $\mu\text{m}$  wavelength range.

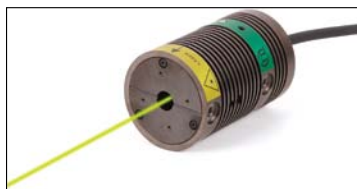
Edmund Optics®  
www.edmundoptics.com

## XEI Scientific Reports on the Recently Awarded Patent Describing a New TEM Stage Loader

XEI was awarded a US patent for a device to load TEM sample holders into a vacuum chamber. It was invented by George Safar of the XEI development team. This device allows the TEM sample stage and holder to be easily inserted into XEI's desktop Evactron® CombiClean™ plasma cleaner without fear of bumping the end of the holder or specimen when it enters.

XEI Scientific Inc  
www.evactron.com

## Picoquant Has Released a 560 Nm Picosecond Pulsed Diode Laser Head



The new wavelength of the PicoQuant's 560 nm picosecond pulsed diode laser head opens the door for entirely new applications in bioanalytics, biochemistry, genetics, and quality

control. It is ideal for exciting fluorescent proteins like mCherry, RFP, or DsRed, and fluorescent dyes such as CY3 or Atto565. With a short pulse duration of 80 ps, the pulsed laser perfectly matches the time resolution of mainstream detectors.

PicoQuant GmbH  
www.picoquant.com

## FEI and University of Manchester Announce Collaboration Agreement for Metals Research

The lab will focus on steels and non-ferrous alloys research in an effort to develop high-performance materials for use in industrial sectors where advanced metallic alloys play a critical role. The multiscale workflow permits investigations of the root causes of behavior and failure at the atomic scale, while at the same time, ensuring that those small-scale observations accurately represent the structure and composition of the material at larger scales.

FEI Company and The University of Manchester  
www.fei.com

## Diamond Light Source Purchases Multiple Electron Microscopes from FEI

FEI announced its largest order for Life Sciences: Diamond Light Source, an advanced synchrotron light source provider, has ordered two Titan Krios™ cryo transmission electron microscopes, a Scios™ DualBeam™ FIB/SEM (focused ion beam/scanning electron microscope), and a Talos™ cryo-TEM. These microscopes will form the core of the electron biology facility (EBIC) that will provide Diamond with a complete cryo-electron microscopy workflow to enable new insights into viruses and cellular proteins.

FEI Company and Diamond Light Source  
www.fei.com and www.diamond.ac.uk

## New Electron Microscopy Sciences Comprehensive Catalog

Electron Microscopy Science announces the publication of its new comprehensive full-line product catalog. Featuring hundreds of new items for all areas of research, this 1,200-page full-color catalog is an indispensable source for not only a complete array of products but for technical specifications and applications as well. Highlights include an expanded offering of specimen mounts, antigen retrievers in IHC, calibration systems for optical microscopy, and new equipment for both histology and materials science.

Electron Microscopy Sciences  
www.emsdiasum.com