

**Thermo Fisher Scientific, Inc.** announced that **Drexel University is the 15000th purchaser of the Thermo Scientific NanoDrop™ 1000 UV/VIS Spectrophotometer.** The instrument will be used in a microbial source tracking project at Drexel University in Philadelphia, Pennsylvania. This groundbreaking instrument with its patented sample retention system has revolutionized how scientists use spectrophotometers, enabling them to quantitate biomolecules with the minimal consumption of sample (1 µL).

Thermo Fisher Scientific Inc., the world leader in serving science, today announced the launch of its new **Thermo Scientific Nicolet™ iN™10 FT-IR microscope**, powered by new OMNIC™ Picta™ software. This revolutionary system simplifies infrared microscopy, enabling chemists in analytical and investigative chemistry laboratories to take full advantage



of the power of this technique and have complete confidence in their results. The unique integrated architecture of the Nicolet FT-IR microscope removes the need for an external spectrometer and provides exceptional optical efficiency, allowing data to be obtained with speed and simplicity. FT-IR

microscopes typically require the use of liquid nitrogen-cooled detectors. The Nicolet iN10 FT-IR microscope is equipped with a room-temperature detector, eliminating the time, hazards and expense associated with liquid nitrogen cooling. In combination with the highly efficient Slide-on ATR sampling device, this detector makes the Nicolet iN10 FT-IR microscope as quick and easy to use as an infrared bench.

Thermo Fisher Scientific Inc. launched its new **Thermo Scientific DXR Raman microscope.** The instrument is designed specifically to help non-specialist users achieve rapid sampling and analysis of particles, down to one-micron spatial resolution. The novel microscope offers excellent spatial resolution, superior performance and unmatched reproducibility in a package that anyone can use. The DXR Raman microscope is equipped with fully integrated, pre-aligned components for fast and easy field installation and configuration. This flexible, innovative system utilizes several patented features to automate and simplify the steps an expert would go through to optimize a measurement. Interchangeable SMART® components require no operator adjustment and ensure automated system configuration. Patented auto alignment and auto calibration ensure reliable results. A fiber probe option is available for remote sampling. Furthermore, the microscope utilizes the Thermo Scientific ValPro® complete system validation package, allowing for compliance with cGMP and FDA regulatory requirements. Thermo Fisher Scientific also offers a large collection of Raman spectral libraries to aid in sample identification. For more information about the new Thermo Scientific products, visit [www.thermo.com](http://www.thermo.com).

**FEI Company and Imago Scientific Instruments** today announced a comprehensive collaboration on the distribution and marketing of Imago's LEAP™ product line. The arrangements allow FEI to establish an equity position in Imago and the option to purchase Imago in the future. The alliance combines FEI's leadership in providing tools for nanoscale exploration and discovery with Imago's leadership in providing innovative and commercially viable atom probe technology. Imago's LEAP atom probe



enhances the breadth of FEI's offerings and compliments FEI's current transmission electron microscope (TEM) and DualBeam™ focused ion-

beam/scanning electron microscope (FIB/SEM) product lines. Imago's LEAP microscopes are complementary to TEMs such as the FEI Titan™ Family. In addition, sample preparation for both TEM and the atom probe is enabled by DualBeam tools, which FEI invented 15 years ago. FEI is the world's leading supplier of both TEM and DualBeam platforms. For more information, visit [www.feic.com](http://www.feic.com) or [www.imago.com](http://www.imago.com)

**JAI** today announced the release of the **AG-7000, a new intensified (ICCD) camera for low-light applications.** The AG-7000 combines a high performance Gen III Ultra intensifier tube with a small, interlaced CCD camera offering standard RS-170 analog video output for easy connectivity to monitors and image acquisition cards. With its compact size of 45 mm (H) x 51 mm (W) by 87 mm (L), the AG-7000 is one of the smallest intensified cameras in its class. [www.jai.com](http://www.jai.com)

Two of the world's leading imaging equipment suppliers - **Nikon Instruments and JEOL** - have joined forces to bring a new benchtop SEM to the market. "The NeoScope partnership is a natural progression for both companies," said Michael Metzger, General Manager of Sales and Marketing at Nikon Instruments in Melville, New York. "We're drawing from our respective expertise in optical and electron microscopy, and offering the optical microscope user an entirely new tool that will have a major impact on life science research and industrial manufacturing quality inspection." Peter Genovese, JEOL USA Vice President and General Manager of Sales in Peabody, Massachusetts, added, "We've found a natural platform where both companies meet. Nikon and JEOL have products that complement one another in the laboratory and research environment. The science of



electron microscopy is very closely related to optical microscopy, but the NeoScope SEM extends the depth of field and resolution far beyond the optical microscope." The NeoScope, targeted at the bioscience research and industrial inspection communities, fills the optical microscopist's need for advanced imaging capability that is both affordable and easy to use. Offering higher magnification without loss of depth of focus, the NeoScope will help accelerate the pace of research in the life sciences, forensics, and failure analysis of manufacturing materials. The NeoScope images both conductive and non-conductive samples without special preparation. It operates in both low and high vacuum modes and has three settings for accelerating voltage suitable for a variety of applications. The JEOL NeoScope will be sold by Nikon Instruments ([www.nikonusa.com](http://www.nikonusa.com)). For more information or to arrange a demo, contact [nikoninstruments@nikon.net](mailto:nikoninstruments@nikon.net) or call 800-52-NIKON.

**CRAIC Technologies, Inc.** announces the launch of the new **QDI MP1™ microscope photometer.** The QDI MP1™ is an all solid state system designed for photometry of microscopic samples in such fields as mineralogy and cytophotometry. This rugged instrument is can measure the reflectance, transmittance or fluorescence photometric values rapidly and accurately. CRAIC also announced the launch of the new **QDI CoalPro™ Vitrinite Reflectance Measurement System**, a rugged microphotometer capable of testing vitrinite coal by international standard test methodologies rapidly and accurately. Contact information: CRAIC Technologies, Inc. [www.microspectra.com](http://www.microspectra.com)

**Leica Microsystems** introduces the **Leica TCS LSI, the first macro zoom confocal**, offering a unique combination of high-resolution imaging plus a large field 'macro' view for in vivo imaging of model organisms. The Leica TCS LSI provides researchers with the tool they need to visualize and precisely image the development of life and the complex cellular interactions within whole, living animals. As organisms grow, these studies require an imaging system that provides high resolution, a large workspace, and

a wide field-of-view to reveal the dynamics of cell growth, cell differentiation processes, and the development of organs in vivo. The Leica TCS LS's 16:1 optical zoom offers both the advantage of high magnification and high resolution for true spectral confocal imaging and the ability to seamlessly move to a macro view of the entire specimen, without changing any hardware. Further, the workflow-oriented software design, consistent with all Leica Microsystems' fluorescence systems, guides users through experiments as opposed to simply offering an endless toolbar to hunt through. This design reduces training time and allows users to quickly become comfortable with the system. For more information contact: [www.leica-microsystems.com](http://www.leica-microsystems.com)

**Jenoptik** extends its ProgRes® camera line by launching the **ProgRes® C7 a model with 7 megapixel resolution** and fast live image. The new ProgRes® C7 is equipped with a CCD sensor and a mechanical shutter. Dedicated to high-resolution imaging, the sensor records even smallest specimen structures in a precise and detailed fashion, using seven million pixels. ProgRes® recommends C7 for macro shots in addition to light-microscopy applications. By providing a fast live image in high SXGA resolution, it makes precise specimen positioning and focusing much easier. The ProgRes® C7 requires only a single shot to capture a complete 7 megapixel image, including objects in motion or involvement of flash illumination due to its integrated shutter. Like all cameras of the ProgRes® series, the C7 is suitable for any illumination technique in light microscopy and excels through its high light sensitivity and natural reproduction of colors. For further information, please visit: [www.progres-camera.com](http://www.progres-camera.com).

**Carl Zeiss MicroImaging Inc.**, introduces the **LSM 710 Laser Scanning Microscope**. With the LSM 710 Laser Scanning Microscope, Carl Zeiss defines new standards for sensitivity and flexibility in examining fluorescent biological specimens. The technical innovations of the LSM 710 provide new possibilities in research conducted with living, multi-labeled cells. With increased sensitivity, a higher signal-to-noise ratio, improved flexibility for new fluorescence dyes and multimodal experiments, as well as new multiphoton detectors for deeper optical penetration into biological structures, the system can give new impetus to all areas of biological research. Further hallmarks of the LSM 710 are its unique precision and reproducibility as well as its markedly easier operation. Numerous technological innovations in the optical and electronic design as well as the software architecture of the LSM 710 allow for easier, faster and more efficient confocal fluorescence microscopy. The system's outstanding sensitivity ensures high-contrast, detailed images of even the most complex specimens, such as thick, living tissue samples. The new illumination and detection design provides absolute freedom in the selection and simultaneous imaging of up to ten fluorescence signals. The basis is a filter-free spectral detection unit, which can be continuously set over the entire wavelength range, for the simultaneous imaging of up to 10 dyes. Innovative analysis methods such as integrated image correlation spectroscopy make it possible to extract quantitative information about molecule concentrations and mobility directly from the confocal images recorded. The LSM 710 Laser Scanning Microscope can be combined with upright and inverted Axio microscope stands from Carl Zeiss. For more information on the LSM 710 please visit <http://www.zeiss.de/sound>.

**WITec** introduces the **alpha500 microscopy series for automated Confocal Raman Imaging and Atomic Force Microscopy (AFM) on large samples**. The alpha500 is the first instrument on the market to combine Confocal Raman Microscopy for 3-D Chemical Imaging and AFM for high resolution structural imaging in an automated system. A motorized sample stage with a travel range of 150x100 mm allows multi-area/multi-point measurements or overview scans on an arbitrary, user-defined number of measurement points. Specific automated functions such as an integrated auto-focus and an automatic AFM-tip approach guarantee that standardized routine measurement procedures or manually defined sequences can be performed without any ongoing process control by an operator. The instruments significantly reduce the overall experiment duration and deliver a greater amount of data in a given time for resource-minimized

routine research or high-level quality control, bringing results to market or publication even faster. Contact Information: Harald Fischer, Phone: 217 351 9705, <http://www.witec.de>

**QImaging, Photometrics, Gatan, and Media Cybernetics** are **sponsoring a series of live, interactive webinars covering a variety of microscopy imaging topics** with an emphasis on precise image acquisition and analysis. Topics include live cell fluorescence, FRAP, counting and sorting objects, tracking in 2D and 3D, deconvolution of confocal and widefield images, fast scanning of large specimens at high magnification, how to select a camera, and many more. All sessions are free, but pre-registration is required. Browse the calendar and register at [www.magbiosystems.com/education](http://www.magbiosystems.com/education)

The KeenviewG2 is the 2nd generation of **Olympus Soft Imaging Solutions** high resolution and high read-out speed bottom-mounted TEM CCD camera system. The **KeenviewG2** is part of our G2 SERIES, our new TEM camera line-up – for best in speed, sensitivity and dynamic range. This fiber-optically coupled 14-bit camera sets benchmarks with its finely balanced concept of electronics, optics, design and functionality. The KeenViewG2 is equally convincing users in the bio-medical, life sciences, materials science and semiconductor field. The KeenViewG2 camera system couples a high sensitive phosphor scintillator with the CCD chip using unique fiber optics. This innovative approach provides the user with a welcome price/performance advantage. In order to match customers' individual demands various scintillators can be customized for several accelerating voltages (100 keV / 200 keV). The CCD chip architecture guarantees extremely high anti-blooming. Individual pixels are clearly distinguished. This in conjunction with the extremely short exposure times optimizes the acquisition of diffraction images. In conjunction with the highly sensitive CCD chip and the optimized scintillator, this ensures high sensitivity and efficiency. The KeenViewG2 supports frame rates of more than 25 images per seconds at 2x binning and of 15 images per seconds at full resolution.



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**Universal Resolution Test Specimen from Agar Scientific** tin on carbon resolution test specimen enables resolution checks under all operating conditions. Tin spheres, 3nm-30µm and inter-sphere spacing, allows resolution and performance checking over the full operating range. [www.agarscientific.com](http://www.agarscientific.com)

**Evex** introduces the ultimate tool for nanotechnologists; the **Mini-SEM™**. The Mini-SEM, short for miniature scanning electron microscope is the world's most advanced, easiest to use, analytical miniature electron microscope on the market. The Mini-SEM is unique because it can magnify images 30,000 times in standard mode, and with digital zoom it can magnify 120,000 times. The Mini-SEM can be equipped with Evex's NanoAnalysis System (EDS/EDX). The NanoAnalysis system is comprised of the 1) Evex QDD High Speed Liquid Nitrogen Free x-ray Detector, 2) Spectral Engine, 3) Imaging Engine, 4) Elemental Mapping module. Just load the sample, within seconds you can capture an image and acquire a spectra to determine the elemental composition of the sample. The NanoAnalysis system is so powerful; it can measure the concentration levels of each element at every pixel position in the image with its Trace Sensitive Analysis routine. It's that easy! The Mini-SEM is a perfect addition to any microscopy laboratory. It's powerful, easy to use, and cost effective. Call Evex 609-252-9192 today for more information.

