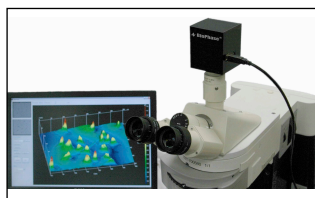


what's new

Phase View



BioPhase is an imaging device from PhaseView with the unique capability of simultaneous acquisition of intensity and phase data at ultrahigh resolution, providing qualitative cell imaging and accurate quantitative measurements with outstanding key benefits.

Time-lapse monitoring of 3D cell morphology can be performed without contrast agents with related phototoxicity and without specialized optics for free-space manipulation. Cells can remain in situ in their growth medium using standard incubation flasks, Petri dishes or multiwell plates.

The smart BioPhase camera is compatible with any optical microscope equipped with a video port and standard brightfield objectives. In addition, fluorescence, confocal or TIRF images can be acquired using the same objective as well as providing simultaneous phase-contrast imaging.

Contact: PhaseView
www.phaseview.com

Reader Enquiry No. 101

EMCCD

Photometrics' Evolve EMCCD camera makes experimental data quantifiable and reproducible by using the photoelectron to measure an image. Now researchers can measure real-time images in terms of photoelectrons as opposed to arbitrary imaging units without having to complete secondary calibrations. Applications include superresolution (SR) fluorescence microscopy techniques such as PALM and STORM that recently made it possible to track what goes on inside a cell at the nanoscale. Evolve captures all the benefits of these emerging SR techniques while enabling reproducibility in imaging experiments. By calculating the intensity of images in photoelectrons as opposed to arbitrary imaging units, scientists will finally be able to reliably compare their data and draw more meaningful conclusions.

Contact: Photometrics
www.photomet.com/

Reader Enquiry No. 103

New Analytical S/TEM

FEI, a leading provider of atomic-scale imaging and analysis systems, has announced the release of the Tecnai Osiris scanning/transmission electron microscope (S/TEM), delivering revolutionary analytical speed and performance. It includes FEI's new ChemiSTEM technology, which reduces the time for large field-of-view elemental mapping from hours to minutes. The Tecnai Osiris is designed to combine this breakthrough analytical throughput with exceptional ease-of-use to meet the requirements for both high-volume industrial and multi-user research laboratories.

The patent-pending ChemiSTEM technology enables the Tecnai Osiris to achieve a factor of 50 or more enhancement in speed of energy dispersive x-ray (EDX) elemental mapping, by combining technical advances in beam generation with disruptive changes in EDX signal detection. The Tecnai Osiris is built on a platform designed to maximize productivity and return on investment in high-volume analysis.

Tony Edwards, FEI's senior vice president of market divisions, said: "The Tecnai Osiris addresses the needs of both our research and industrial customers who place increasing importance on elemental composition analysis and mapping of all samples, but until now, could not find an S/TEM with the required analytical speed and ease-of-use to support this requirement. For example, the continuing decrease in device sizes and proliferation of new materials in semiconductor manufacturing, and the appearance of more samples with unknown composition in multi-user research facilities drives the need for an S/TEM providing the ease-of-use of EDX analytics with an elemental mapping speed comparable to STEM imaging."

Edwards continued: "The Tecnai Osiris was designed to fill this current gap in the market by providing elemental mapping with large fields-of-view in minutes instead of hours, and without the need for an operator highly trained in complex analytics. This ease-of-use is further extended by the new SmartCam remote control interface, which enables experts to provide remote guidance in multi-user or industrial facilities to less experienced operators."

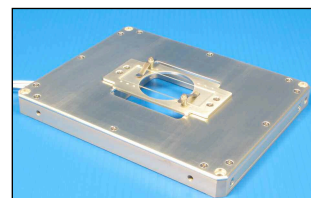
The Tecnai line has a long history of performance and reliability as a workhorse tool in industrial applications. The Tecnai Osiris, a 200 kV S/TEM, continues the Tecnai tradition with the addition of numerous technical innovations, including: ChemiSTEM, which comprises the proprietary X-FEG high brightness electron source and Super-X, FEI's new EDX detection system based on Silicon Drift Detector (SDD) technology; MultiLoader sample handling that reduces thermal equilibration time after sample exchanges by ten times with commensurate improvements in time-to-data; and the new FS-1 electron energy loss spectrometer that improves electron energy loss spectrometry (EELS) speed and sensitivity; as well as other enhancements, such as the SmartCam remote control camera, long-life liquid nitrogen supply, and more.

Contact: FEI Company
www.fei.com

Reader Enquiry No. 100



Nano-Stage



The new Nano-LPQ piezo nanopositioner adds to our innovative line of low profile systems designed specifically for microscopy users. The Nano-LPQ is the lowest profile high speed XYZ nanopositioner available and offers $75 \times 75 \times 50 \mu\text{m}$ travel with picometer position noise under closed loop control. The Nano-LPQ features equal millisecond response times in XYZ, an integrated sample holder, analog and digital control with added scan synchronization features, and compatibility with major image and automation software. The Nano-LPQ is LabView and C++ compatible and is supplied with Mad City Labs' Nano-Route 3D software, for ease of use.

With its outstanding features and performance, the Nano-LPQ is the ideal choice for 3D particle tracking and super resolution microscopy applications.

Contact: Mad City Labs, Inc.
www.madcitylabs.com.

Reader Enquiry No. 102

Brochure

Elliot Scientific has launched a new and expanded Products & Capabilities brochure for 2009/2010. The 16-page brochure summarises all of the products and services available from Elliot Scientific's four different divisions: Lasers; Components & Instrumentation; Telecoms; and Cryogenics & Magnetics. As well as own-brand products from the Elliot Scientific and Elliot Martock ranges, the brochure also covers products from the 36 companies Elliot Scientific represents in the UK and Ireland. These include many global brand leaders along with companies that are gaining worldwide recognition for their innovative products like Klatsch, for their unique CW Ruby laser, the silver nanoparticle polarizers of CODIXX and iR Photonics for their novel infrared fibre-optic material.

Contact: Elliot Scientific Ltd
www.elliotscientific.com

Reader Enquiry No. 104

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