

Nikon Instruments Inc. Offers Solent Scientific Incubators With Eclipse Te2000 Inverted Research Microscope

Nikon Instruments Inc. today announced that it has entered into a cooperative marketing agreement with Solent Scientific, manufacturers of full enclosure incubation chambers for microscopes. Nikon will offer its United States customers the Nikon Eclipse TE2000 inverted research microscope and Solent Scientific's 37-degree incubation chamber as a complete turnkey solution. Available in three models, the Nikon Eclipse TE2000 excels at automated high precision live cell microscopy, and enables the use of standard epi-fluorescence techniques as well as high-resolution deconvolution, confocal and 3-D imaging techniques. Nikon's dealers will handle the sales of this complete live cell microscopy solution to its customers in the US.

Nikon Introduces New Digital Sight Series 5 Megapixel Camera

Boasting a fully independent, stand-alone design, the DS-5M-L1 captures high definition images at 2560 X 1920 effective pixels and is equipped with a 6.3-inch, high-definition LCD monitor and pre-programmed imaging modes specifically designed for photomicrography applications. The DS-5M-L1 also allows the user to establish custom settings and provides tool functions that allow for count-marking and range measurement between two points on a specimen. Pre-programmed image modes allow the user to achieve optimum results in every observation method without spending time re-setting the camera for every photo session. In addition, it also features thumbnail display, allows for text and pen input and offers researchers the ability to superimpose saved images over a live image allowing for easy comparison.

Nikon's New Digital Microscope Eliminates Eyepieces

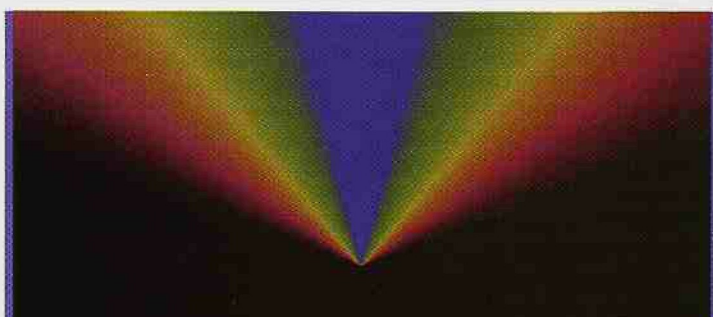
COOLSCOPE'S unique design does away with traditional microscope eyepieces. Instead, all observations occur on a monitor or through a projector.

After loading a glass slide preparation into the tray — which is housed in COOLSCOPE'S CPU-like "tower" — a user operates all controls, including observation, image capture, and network communications, with simple mouse clicks. Once loaded, micro and macro images of the specimen are simultaneously visible on a monitor or projection device, through the unit's five-megapixel digital camera. With the memory function, users can save up to 12 previous observation conditions and specimen positions, for instant image recall later on. COOLSCOPE'S aperture and brightness are automatically adjusted, while stage movement, focusing, and magnification changeover are all digitally motorized. An LED illuminator provides bright, uniform, and cool light with a constant color temperature. For more information, visit the Nikon website at www.nikonusa.com <<http://www.nikonusa.com>>.

RÖNTEC's innovative EDS system QuanTax

When microstructures at the SEM need to be analyzed in more detail, EDS microanalyses are of great help. With the EDS method, the elements and their concentration in the sample can be determined. RÖNTEC's innovative EDS system QuanTax consisting of an x-ray detector, electronics, and a PC including software, is a product that combines the latest trends in detector development with extremely user friendly operation. QuanTax analyzes all kinds of samples — ranging from ceramic materials, powders and metals to coatings. The software offers routines for the precise analysis of rough surfaces as well as polished samples, that are customary in EDS analysis. An outstanding advantage of QuanTax is the liquid nitrogen free operation of its x-ray detector (XFlash®). The detector is cooled with peltier elements, thus, making the cooling agent liquid nitrogen unnecessary. A further distinguishing feature is speed. Based on the SDD technology, the XFlash® detector in the QuanTax system allows higher throughput capabilities than conventional Si (Li) detectors. Analyses can therefore

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Introducing the MaxView Plus
Digital Camera Attachment System

The MaxView Plus kit includes adapters to fit microscopes & optical devices with any of the following attachments; C-Mount, C/S-Mount, T-Mount, 23mm Eyepiece Port, 30mm Eyepiece Port, and 1.25" Eyepiece Ports



23mm Eyepiece Port Adapter 30mm Eyepiece Port Adapter C & C/S-Threaded Port Adapter T-Threaded Port Adapter 1.25" Eyepiece Port Adapter

The MaxView Plus can also be used as a high quality wide angle eyepiece with the included thread-on eyeguard. The MaxView Plus is "T" threaded on top so you will need the appropriate Attachment Kit to mate it to your particular digital camera. We carry dozens of attachment kits to fit most all popular digital cameras and we update them regularly so your MaxView Plus will not become obsolete when it is time to upgrade to a new camera. If using it with a 35mm SLR you will need the appropriate T-Ring for your brand of camera.



The heart of the MaxView system. A wide field 40mm focal length four element symmetrical (Plossl) lens assembly specially mounted in a carefully designed custom cell. The lens is mounted only 1mm from the top to maintain the close coupling required to reduce vignetting. The cell features a unique sliding collar assembly which serves several important functions, it allows quick and easy removal of the camera, it allows you to adjust eyeguard height for easy visual use, allows you to adjust magnification when used with a 35mm camera, and allows you to adjust lens position to minimize vignetting with a digital camera.



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be performed up to five times faster. The time needed for mappings, that usually take several hours, can be reduced to a couple of minutes with significantly improved image quality. With an energy resolution of 127 eV, the new detector surpasses the performance potentials of the currently used Si (Li) detectors with liquid nitrogen cooling. QuanTax can be fitted to SEMs of all manufacturers. For Further Information: RÖNTEC GmbH, Gabriele Mäurer, Gert Kommichau, Schwarzschildstr. 12, 12489 Berlin GERMANY

Workshop Series High Resolution Microscopy

WITec GmbH, Ulm, Germany introduces a new Workshop Series on "High Resolution Microscopy". All workshops will be organized with close cooperation between WITec, its local representatives and University Institutes. The workshops will cover several aspects of high resolution microscopy and its applications. All scientists interested in new methods and techniques for analyzing structures in the sub-micron range are invited to attend. The series will start in November with a workshop at the University of Heidelberg, Germany, followed by workshops at Harvard University and Cornell University, USA in December. The workshop series will continue in 2004. Detailed information on each workshop can be found in the events section at www.witec.de.

LW Scientific, Inc.

The All New e-VID Camera

The e-VID camera is a compact, low cost solution for everyday video needs. The e-VID mounts on any trinocular microscope with a C or CS type mount. Connecting to a monocular or binocular eyepiece is easy with the included 8mm lens and eyepiece adapter. The 1/3" CCD chip provides good resolution down to 1.0 lux. The e-VID comes with all accessories required to connect nearly any optical device to a TV or monitor. This is a value-packed camera suitable for educational, industrial or medical applications.

REVELATION III

The professional-grade Revelation III microscope is equipped for performance in a variety of demanding environments. Features include titanium finished DIN achromatic or semi-plan optics and a 30-year anti-fungal coating on all lenses. Field-ready portable options are also available for "in the field" microscopy. This binocular scope is a best-selling option for physician and veterinary clinics as well as universities and medical schools. The dual-binocular head option, ideal for teaching or training, allows two technicians to view specimens simultaneously. The Revelation III carries a lifetime warranty on materials and workmanship and a one-year warranty on electronic components.

Z-2 Inspector Zoom

The CAD-designed Z-2 Inspector Zoom scope is establishing itself as the ideal choice for industrial QC inspection and medical laboratory applications. This ergonomic scope features high point eyepieces and mechanical two-finger operation that is easy to use and reduces hand strain. The depth of focus, field flatness, zoom parfocality and long working distance improve inspection accuracy and flexibility. Options include: trinocular head featuring "all three live", adjustable boom stand (pictured) and fiber optic illumination.

The Mini-VID - The Easiest Microscopy Camera To Use

The Mini-VID eyepiece camera is the simplest, most portable camera to use for quick microscopy and instant imaging. Ideal for presentations, training and anywhere a portable camera is needed. Available with an RCA output or USB connection, the Mini-VID can be plugged into your TV, VCR or desktop computer. This innovative camera slips into any brand of standard microscope or stereoscope eyetube or can be used with the optional gooseneck holder for macro imaging. For more information log on to: www.lwscientific.com 1-800-726-7345.

Soft Imaging System's analySIS intraScope

Provides network remote control for light microscopy applications. This new analySIS package offers convenient online operation of the following: motorized microscopes such as those of the Olympus BX, IX and AX series;

Soft Imaging System cameras; and motorized stages. Online operation means these devices can be operated from anywhere. Telemicroscopy saves time. When questions arise regarding a crucial evaluation, other colleagues can be consulted concerning the live image right away. Opinions can be exchanged no matter where the two parties are located. The analySIS intraScope concept is based on the TCP/IP internet communications protocol which guarantees variable connection speeds - depending on the internet or LAN/WAN connection (minimum recommended is S-DSL, 384 kBit/sec). The data and function calls between server (computer with the microscope, camera and motor stage, etc.) and client are executed by analySIS intraScope (on both client and server versions). The range of functions offered by analySIS intraScope is tailored to the needs of light microscopy users. An electronic address book manages the list of available network remote stations. Images are transmitted via predefined "intraScope cameras". analySIS intraScope is optimized for use with Soft Imaging System's FireWire™ digital cameras and all cameras that can be attached to a GrabBit on a network remote server. For optimal performance, images can be compressed before transmission. Remote-control access includes the objectives, shutter, filter cube and contrast techniques. In addition, the software autofocus can be client activated. The client also has direct access to all parametrizable camera properties for immediate acquisition of image stacks. Do not hesitate contacting us in case of further questions, - just mail to: marketing@soft-imaging.net. North American Office: Dr. Mike Bode, Soft Imaging System Corp., Tel.: +1 (303) 234-9270, <mailto:info.us.west@soft-imaging.net> www.soft-imaging.com

Pacific Nanotechnology Licenses Patent for IBM's Atomic Force Microscope Technology

Pacific Nanotechnology, Inc. is pleased to announce the licensing of IBM's patent of the fundamental technology for the atomic force microscope. IBM was a pioneer in AFM development. U.S. Patent 4724318, "Atomic force microscope and method for imaging surfaces with atomic resolution," was issued to Gerd K. Binnig of IBM's Zurich Research Laboratory in 1988 and reissued in 1990 as RE33387. Binnig and Heinrich Rohrer won the Nobel Prize for the scanning probe microscope in 1986. AFMs have since become a critical enabler of the nanotechnology revolution. For more information, visit the company's Web site at www.pacificnanotech.com or contact: Rhoda Becker, rhoda@pacificnanotech.com; or Lara Torgesen +1-408-737-0285, or

Kevin Scudder appointed to VP of Sales & Service at Gatan, Inc.

Tom Connelly has announced that he will leave Gatan Inc. as its VP Sales, Marketing and Service to assume a new position within Roper Industries. He will become president of Photometrics, which focuses on development, sales, and marketing of CCD cameras for the Life Science market. Kevin Scudder, who has been in charge of Gatan's European operations, will relocate to Gatan's Corporate Headquarters in Pleasanton, California to assume the role of VP of Sales & Service. For more information on Kevin Scudder, please visit www.gatan.com.

Media Cybernetics Inc. Announces New Image-Pro® Plus Version 5.0

Image-Pro Plus Version 5.0 includes a variety of new composite imaging and measurement tools including Stitching and Tiling, Alignment Correction, Object Tracking, and Dye Management. The Stitching and Tiling tool can be used to build large images from multiple, smaller location acquisitions. The Alignment Correction tool enables users to align individual or stack images for translation, rotation, or scaling. Users can identify and quantify objects moving in time and space with the Object Tracking feature. The Dye Management tool allows for automatic assignment of proper display colors for monochrome fluorescence images. The streamlined image acquisition interface of Image-Pro Plus Version 5.0 offers an easy-to-use capture dialog that places the most important capture tools within easy reach. The new AutoSet feature offers "one-button operation" through algorithm optimization of color balance and exposure parameters. New workflow management tools in Image-Pro Plus Version 5.0 allow users to create a customized work environment. Users can also

build unique toolbars customized for their work process with the floating toolbar feature. Built-in configurations are selectable for either life science or industrial needs. For more information about Media Cybernetics, visit www.mediacy.com.

New GSR Software From Oxford Instruments

Oxford Instruments has announced the release of INCAGSR – a dedicated solution for the automatic detection and analysis of gunshot residue using the SEM. The software is based around the unique INCAEnergy platform and has been designed in conjunction with leading forensic scientists to meet all the requirements of GSR particle detection and characterisation, and complies with ASTM standard E1588. INCAGSR allows for the automatic identification of all peaks, relocation of particles of interest automatically, repeated reprocessing and reclassification, and gives the flexibility to tailor for individual requirements. All data processing and analysis can be performed off-line saving valuable microscope time. For further information go to www.oxford-instruments.com/INCAGSR

Navitar's New Motorized Zoom Lenses & Controllers

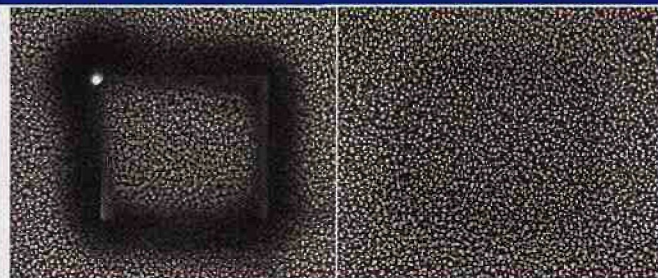
Navitar, Inc. introduces our new Hall-Effect Sensor Motorized Zoom Lenses and innovative new RS-232/USB Controllers. Navitar's new motorized design, available on our 12X and Zoom 6000 systems, integrates magnetic Hall-Effect sensors to reference zoom and focus position location. Hall-Effect sensors are solid-state devices with no moving parts. The Hall-Effect sensor mechanism utilizes a magnetic field to trigger a pulse in a semiconductor circuit. These sensors are unaffected by harsh, dirty or dusty environments, ambient room light, or variations in line voltages. Navitar offers three different motor types with the new design: 2 Phase Stepping Motor (Faulhaber), 5 Phase Stepping Motor (Oriental, Vexta), and DC Servo with Encoder (Faulhaber). Users can choose to motor-

ize the zoom axis, focus axis, or both. (Navitar will have a 5 Phase and DC Servo with Encoder system available at the end of 2003.) To control these new motorized zoom lenses, Navitar now offers new fully integrated controllers. These new control systems feature single or dual axis control via serial RS-232 or USB. Software includes LabView(tm) VI or Windows Graphical User Interface "GUI" for individual axis control. Controllers can be ordered as table top or board level for the OEM.

Navitar Digital Camera Adapter

Navitar, Inc. introduces our new Digital Camera Adapter. This unique camera adapter allows you to couple your digital camera or camcorder to any C-mount or standard SLR lens, microscope or telescope, permitting a digital recording of your subject matter. Very simple to use, the Digital Camera Adapter comes with a male M37 x 0.75 thread. This is a popular thread size used on a number of different cameras. If, however, your camera does not have the correct thread size, the required adapter is readily available from most aftermarket camera shops. The Navitar Camera Adapter works beautifully with microscopes too, fitting into any standard 30mm eyepiece port. In the case of SLR lenses, the appropriate C-mount adapter will be needed (i.e. Pentax K-mount to C-mount adapter, T-mount to C-mount adapter, etc.). Telescopes require a 1 1/4" to C-mount adapter. All of these various adapters can be used with the Navitar Digital Camera Adapter to couple cameras and camcorders to virtually any lens, microscope or telescope. In addition to allowing you to photograph and record digital images, this innovative camera adapter also enables any lens to be used as a standard monocular for direct viewing with the eye. List price for the Navitar Digital Camera Adapter is \$299. For more information, please call Navitar directly at 1-800-828-6778 or 585-359-4000, check out our website at www.navitar.com or e-mail us at info@navitar.com.

"The Evactron® device can significantly reduce contamination in the SEM."



A silicon "grass" sample irradiated for 10 minutes before (left) and after (right) the use of Evactron Anti-Contaminator. 50kX - From *Active Monitoring and Control of Electron Beam Induced Contamination* by A. Vladoar, M. Postek, & R. Vane., Proc. SPIE Vol. 4344 (2001), 835.

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