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THE PULSE OF THE INDUSTRY



March 2014

Featured Products in This Issue



Quantum Leap in Piezo Nanopositioning

Aerotech, Inc.

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Aerotech's QNP Series piezo nanopositioning stages offer nanometer-level performance in a compact, high-stiffness package for X-, X-Y- and Z-axis applications. A variety of travel and feedback options make them ideal for applications from microscopy to optics alignment. The design offers best-in-class stiffness and resonant frequency, enabling high process throughput and fast closed-loop response, and unparalleled geometric performance (straightness and angular errors) while minimizing size.



New Higher-Power Smart Lasers

Coherent

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Expanding its unique family of compact plug-and-play lasers, Coherent introduces the OBIS LG Series offering output powers up to several watts. This higher power provides higher signal to noise and/or shorter data acquisition times for OEM use in bioinstrumentation applications. Released first is the ultraviolet 355-nm model at 20 mW of power and delivering TEM00 with near-perfect mode quality.



Dual iSPIM

Applied Scientific Instrumentation

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ASI has developed a new form of light-sheet microscopy with its collaborators. The system utilizes two water-immersion objectives mounted at 45° angles above the sample on an inverted microscope; a third objective also can be used to view the sample from below. The top objectives are mounted on piezopositioning devices, so precise image stacks can be obtained.



New Industrial Fiber Laser Oscillator

Coherent

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Fidelity, a sealed-box fiber laser, delivers short (<70 fs) pulse widths and high (>2 W) average power at 1055 nm in a rugged, compact platform. Fidelity is an economical, zero-maintenance oscillator offering an air-cooled small footprint (12.5 x 12.5 in., 318 x 318 mm) package producing a high-quality (M2 <1.2) output beam - ideal for demanding applications in multiphoton imaging, terahertz generation and fundamental materials research.



New Infrared Camera

Allied Vision Technologies GmbH

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Allied Vision Technologies introduces its all-new Goldeye short-wave infrared camera (SWIR). It provides best-in-class image quality thanks to its compact, fan-less design, full 14-bit low-noise imaging and onboard image correction. With its GigE Vision interface, Power over Ethernet, comprehensive I/O control options, multiple fixation facilities, and lens or filter mounting, it allows easy integration into industrial and scientific imaging systems.



Industrialized Ti:S Amplifier

Coherent

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Astellra, the next-generation one-box ultrafast kHz amplifier, offers >6 mJ/pulse high energy and <35-fs pulse width with superior beam quality M2 <1.25 and industrialized durability. Providing industry-leading performance and rugged reliability, Astrella enables a wide range of demanding scientific applications.



Tunable Filters for Multispectral Imaging

PerkinElmer

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Glass Wafers

Sydor Optics

[Request Info](#)



Wide Variety of Detectors

Hamamatsu Corp.

[Request Info](#)



Unlimited Optics Measurement

Lumetrics

[Request Info](#)



NuMatch M+ Tighter Tolerance Fibers

Nufem

[Request Info](#)



PC-Controlled Variable Coupler

Evanescent Optics

[Request Info](#)



White Matrix

Necsel

[Request Info](#)



Third-Generation Entry-Guard System

Kentek Corporation

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Optical Laboratory Equipment

Terahertz Technologies

[Request Info](#)



Precision Polymer Optics

GS Plastic Optics

[Request Info](#)



Automatic Centering Machine with Robot

Mildex Inc.

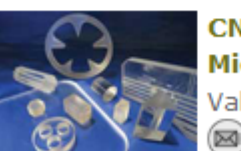
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Sapphire Wave Plates

Meller Optics, Inc.

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CNC Four-Axis Micromachining

Valley Design East

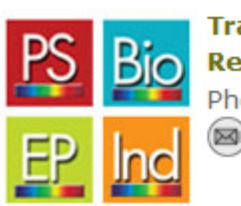
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Microscope Objectives

Optics Technology

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Transform the Way You Read

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Blue Laser

Necsel

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