Tuesday, January 16, 2024

sneak PREVIEW

PHOTONICS MEDIA photonics.com

SPIE Photonics West 2024

SPIE BiOS Elevates Single-Cell Investigations in Science and Medicine

The SPIE BiOS Expo will once again kick off Photonics West 2024, with an exhibition of notable companies in biomedical optics as well as numerous sessions highlighting research during the weekend of Jan. 27 and 28 at the Moscone Center in San Francisco. Companies will offer insights into miniaturized optical components at work in photoacoustic imaging and multiphoton microscopy, and virtual demonstrations of a variety of laser-based techniques.

Read More

.: Featured Exhibitors

TruFiber P with BrightLine Mode

From: TRUMPF Inc.

High-tech company TRUMPF has developed a versatile range of fiber lasers for e-mobility applications, the new TruFiber P with BrightLine Mode option, available with up to 6 kW of power and high beam quality. Electric drive manufacturers benefit from BrightLine Mode's new beam shaping technology which enables the fiber laser to weld copper without spatter and makes it well-suited for welding the copper hairpins of electric motors. Visit us at Booth #833.

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AR, VR, MR Display Test Solution

From: Radiant Vision Systems, Test & Measurement

Visit us at SPIE AR | VR |MR, Booth #6205, for demonstrations of our XRE Lens and near eye display test solutions. The diversity of XR devices and their measurement requirements continue to grow. The XRE Lens is a game-changer for evaluating visual quality of displays through XR headsets. Measure brightness, color, and image quality up to 70°. FOV and adjust electronic focus via software for multiple focal planes.

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Nanopositioners, Microstages & AFM

From: Mad City Labs Inc.

Mad City Labs offers a complete product line of high-precision piezo nanopositioners, micropositioners, single molecule microscopes, and atomic force microscopes (AFM). Applications — photonics, quantum sensing, metrology, microscopy, interferometry, spectroscopy, and astronomy. Our nanopositioners feature ® sensors with picometer precision and low-noise performance. Discover our innovative micro-to-pico scale positioning solutions by visiting us. New! MadAFM ™ sample scanning AFM — tabletop & simple install. Standard lead times <60 days. Visit us at Booth #3430.

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Photonics is the Key to the Future

From: Hamamatsu Corporation

Immerse yourself in future optical innovations with Hamamatsu at Photonics West 2024. As a leader in photonics and imaging technologies, our main Booth (#1127) will showcase our current advancements and products. We will have an exciting second location, Vision Suite (Room 111, North Hall), that will give visitors a glimpse of the light-based technologies that are shaping the future. Come unlock innovation and inspiration with us during the show.

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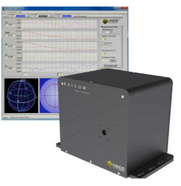
Sensitive Polarization Analysis

From: Hinds Instruments Inc.

Hinds Instruments' Stokes Polarimeter Systems offer unparalleled sensitivity for measuring the polarization state of a light beam or source. The Dual-PEM Stokes Polarimeters quantify all four normalized Stokes vectors in a single measurement with no moving parts. The excellent sensitivity, repeatability, and straightforward operation of Hinds' Stokes Polarimeters have made this system invaluable to challenging applications in optical component characterization, astronomy, fiber optic research and manufacturing, and laser quality control. Visit us at Booth #3330.



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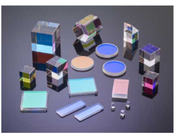
HE Laser Mirrors & Beamsplitters

From: Perkins Precision Developments LLC

PPD's custom Polarizing beamsplitter cubes, dichroic laser mirrors, and output couplers exhibit both low absorption and high damage thresholds (20J!), making them ideal for use with high-energy Nd:YAG and fiber lasers as well as other high-power pulsed and CW laser systems. Because we utilize IBS coating technology, our laser mirrors and beamsplitter assemblies are environmentally stable, with no spectral shifting caused by either time, moisture, or temperature. Visit us at Booth #2339.



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Discover the VARIUS™ Spectrometer

From: Avantes BV

Crafted with patent-pending technology, the VARIUS™ redefines versatility, delivering precision like never before. Adapt seamlessly to every challenge by replacing the slit with the new cover. Achieve 0.1 - 1% stray light, superior signal-to-noise ratios, and seamless USB 3.0/Ethernet connectivity. Its plug-and-play solution allows for easy and immediate deployment. Discover the VARIUS™ at Photonics West at the Avantes Booth #1749!

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CELESTA Light Engine

From: Lumencor Inc.

Lumencor's CELESTA Light Engine houses seven solid-state lasers in a turnkey illuminator for demanding fluorescence applications like confocal spinning disk microscopy and spatially resolved transcriptomics. 1000 mW/color from the distal end of an optical light guide is powerful and intense. Pre-aligned, independent lasers satisfy a compact footprint. Sophisticated electronics support low peak-to-peak noise, reproducible pulsed signals and consistent short- and long-term optical power, well-suited for high-end imaging and OEM instrumentation. Customization available. Visit us at Booth #263.

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SenS 1280 CxP

From: New Imaging Technologies (NIT)

Sens 1280 CxP — NIT latest HD resolution SWIR camera with a CoaXpress output compatible, GenIcam protocol. This camera is equipped with NIT NSC1901 InGaAs sensor (1280 × 1024 pixel @10 µm pixel pitch), exhibiting the best SNR and sensitivity of the market. The model uses NIT latest embedded video processing unit (full frame rate and minimal latency delay). Applications: industrial machine vision. OEM modules available — low form factor for easy system integrations. Visit us at Booth #5419.

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LuxX.HP Diode Laser

From: Omicron-Laserage Laserprodukte GmbH

Explore Omicron's latest innovation, LuxX.HP — a diode laser that offers higher power within the compact LuxX design. Seamlessly integrating electronics into a one-box solution, it operates at 600 mW for both 405-nm and 488-nm wavelengths, addressing the challenge of high power in limited spaces. Ideal for power-hungry applications like super-resolution microscopy, high-throughput screening and DNA sequencing, LuxX.HP ensures stability and precision. Visit us at SPIE Photonics West 2024, Booth #4529.

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