Issue # 3 Tuesday, January 29, 2019

sneak PREVIEW

PHOTONICS MEDIA

Photonics West 2019 – San Francisco, CA

February 2-7, 2019
An advance look at the products, trends and technologies being presented.

Research, Innovation Lead SPIE BiOS 2019
SPIE's BiOS conference and exhibition is renowned worldwide as one of the most important events in the biophotonics industry. It brings together researchers, professors, students, companies, and other industry experts for a weekend of biomedical optics, diagnostics, imaging modalities, neurophotonics, and more. BiOS 2019 will be held at the Moscone Center in San Francisco, Feb. 2-3, as part of SPIE Photonics West.

Read More

Featured Exhibitors

C-FLEX for Holography and Raman

From: HÜBNER Photonics
HÜBNER Photonics is proud to announce the introduction of new configurations of the compact and flexible C-FLEX laser combiner. Thanks to the very broad range of high performance lasers from Cobolt, the C-FLEX platform can now be configured to also serve Holography and Raman spectroscopy applications with laser combiner solutions, in addition to traditional fluorescence imaging applications. Visit HÜBNER Photonics, together with Cobolt, at Photonics West #2451 and BiOS #8839.

Visit us: Booth # 2451

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Pre-aligned FLEXPOINT Line Lasers

From: Laser Components USA Inc.
The first FLEXPOINT MVsquare line laser module in a square housing offers quick and easy integration into 3D machine vision sensors. Focus, beam position, and all other parameters are aligned during production according to customer specifications. Customers can choose between different wavelengths: blue (405/450 nm), green (520 nm), red (635/660/685 nm), and NIR (785/830/850 nm). Depending on the laser diode, exit powers of up to 100 mW can be reached.

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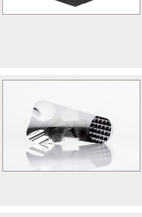
Optics for High Power

From: Optimax Systems Inc.
Optimax continues to push the limits of complexity, quality and speed. We have developed fabrication and coating capabilities designed for advanced optics used in Directed Energy, High Power Lasers, and Deep Ultraviolet lithography systems. Our processes result in low absorption, high laser damage threshold and long lifetime. Visit our site and discover how our laser-grade optics can enhance your system.



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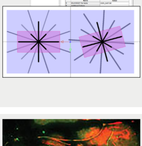
New 5 Axis CNC Capabilities

From: Valley Design Corp., Headquarters
Valley Design now offers 5 Axis CNC capabilities which will enable increased efficiency and accuracy, and improved quality. With the acquisition of new 5 Axis Haas CNC equipment, Valley can machine complex 3 dimensional parts in a wide variety of materials from plastics, glass, quartz and metals to hard ceramics. Utilizing 5 Axis technology, features such as steps, slots, pockets, holes, channels, chamfers and radii are now more readily producible.



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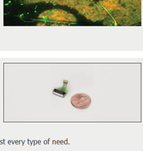
HyperFine Spectrometers

From: LightMachinery Inc.
Designed for measuring hyperfine spectra and subtle spectral shifts, the HyperFine spectrometer from LightMachinery is a compact spectrometer capable of 1 picometer resolution. It is ideal for pulsed laser characterization and for measuring the small spectral shifts from Brillouin or Raman scattering.



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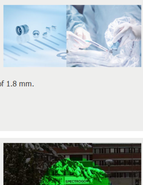
Nanopositioners, Microstages & AFM

From: Mad City Labs Inc.
Mad City Labs offers a complete product line of high precision piezo nanopositioners, microscope stages, micropositioners, single molecule microscopes, and atomic force microscopes. Applications include photonics, metrology, microscopy, and astronomy. Our nanopositioners feature proprietary PicoQ® sensors yielding picometer precision and low noise performance. Discover our micro-to-pico scale positioning and instrument solutions. Newt Compact, high resolution 360 degree rotational positioner. SPIE Bios #8846 and SPIE Photonics West #846.



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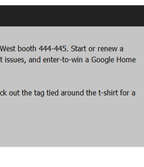
Freeform Optical Components

From: son-x GmbH
We provide ultra precise optical components with freeform geometry in a variety of material, such as metals (aluminium, steel, copper...), and plastic materials. Small, medium, and large quantities can be supplied. With our variety of state-of the art ultra precision machining equipment we manufacture custom freeforms and micro structured surfaces with a roughness of ~5 nm and form accuracy of a few 100 nm.



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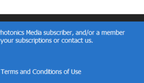
RSoft Photonic Design Software

From: Synopsys Inc., Optical Solutions Group
The latest Synopsys RSoft™ products release supports Synopsys' optical design workflow for nano-textured diffractive optical elements that enable smaller, lightweight AR/VR devices with improved displays and immersive experiences. RSoft and Synopsys LightTools® software provide a unique multi-domain simulation approach that shares Bidirectional Scattering Distribution Function (BSDF) data to help AR/VR device designers achieve superior light extraction efficiency, beam shaping, and color tuning. Contact us today for a free evaluation.



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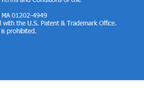
The Right Solution, Right Now

From: IDEX Health & Science - Semrock Optical Filters
Semrock's proven results give you access to high-level engineering know-how that helps make every photon count in your system. Whether we leverage our industry leading standard catalog, or design each component to your unique requirements, Semrock leads the thin-film industry for performance, service and support, reliability and repeatability. From rapid prototyping to high-volume production, entrust your filters to Semrock for life science, analytical instrumentation, and medical diagnostics applications.



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Discover Our New SMD Spectrometers

From: Hamamatsu Corporation
Despite being the smallest one we've designed to date, Hamamatsu mini-spectrometers (SMD series) haven't lost any of the precision and dependability you expect. Ultra-lightweight, compact, and highly accurate, these components enable more flexible design for your applications without sacrificing accuracy or performance. Need customized components to meet project specifications? We specialize in providing custom products to suit almost every type of need.

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We Are Big at Making Mini Lenses!

From: FISBA AG
FISBA's micro optics are used in applications such as endoscopy, medical imaging, flow cytometry, spectroscopy, remote sensing and integrated imaging systems. We offer full services. FISBA supplies microlenses with diameters ranging from 0.3 mm. These can be coated by us according to customer specifications. Our experts develop and produce ready-to-install microlenses from a diameter of 0.7 mm and micro aspheres from a diameter of 1.8 mm.

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IR Filters for Thermal Imaging and Gas Detection

From: Spectrogon US Inc.
Spectrogon manufactures infrared filters and windows with high transmission, high rejection outside the passband, while maintaining excellent coating uniformity — for thermal imaging and gas detection applications such as cryogenically cooled IR detectors and for uncooled microbolometers. Our filters and windows range in dimension from Ø6.0 to Ø200.0 mm with state-of-the-art dicing capabilities. Custom designs are always welcome.

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Ask how you can get your very own Photonics Media t-shirt and be sure to check out the tag tied around the t-shirt for a special promotion.

And as always, you can visit us online at www.photonics.com

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