Wednesday, December 15, 2021

PHOTONICS spectra

PHOTONICS MEDIA photonics.com

Monthly newsletter from the editors of Photonics Spectra, with features, popular topics, new products, and what's coming in the next issue. Manage your Photonics Media membership at Photonics.com/subscribe.

Integrated Photonics Sector Aims to Bridge Skills Gap

The growing demand for PICs has put particular pressure on integrated photonics firms to find qualified technical workers who are able to fabricate systems, run tests, diagnose production problems, and recommend design changes. Yet applicants for these positions often lack the skills they need to be immediately productive.

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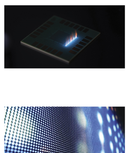

UV Lasers: Short in Wavelength, Long on Potential

For compact UV lasers, advancements in technology and applications could make the sky the limit — literally.

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Accelerating the Manufacture and Repair of Micro-LED Displays

While LCD panels are passive displays that need backlight illumination, OLEDs and LEDs are active elements that eliminate the need for backlighting by emitting their own light. OLEDs have their own drawbacks compared to LEDs, most notably the burn-in effect, which limits their display life.

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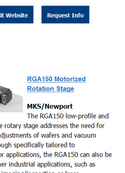

.: Featured Products

Vibration Isolation Workstation

Kinetic Systems Inc.

Designed to isolate sensitive instruments and experiments up to 1300 lbs., the 9100 can be customized by adding a variety of work surfaces and accessories. Providing both vertical and horizontal isolation and supported by a VibraDamped steel frame with an Active-Air suspension, the isolated tabletop will maintain a preset...

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Spotlight 400 FT-IR Imaging System

PerkinElmer

Spotlight™ IR microscope systems are designed to meet the challenges of an expanding laboratory by generating high-quality, reproducible data from a variety of sample types. The Spotlight 400 FT-IR Imaging System combines high sensitivity and rapid imaging with ease-of-use. The ability to image large sample areas...

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Microelectromechanical Systems

Materion Balzers Optics

Materion Balzers Optics has coating techniques for MEMS wafers, depositing a wide range of UV, optical, and visible coatings patterned by photolithography. Our 200-mm wafer fabrication can provide many of the operations required for fabrication on glass or silicon. Materion is one of the few fabs that can perform...

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RGA150 Motorized Rotation Stage

MKS/Newport

The RGA150 low-profile and large aperture rotary stage addresses the need for quick angle adjustments of wafers and vacuum chucks. Although specifically tailored to semiconductor applications, the RGA150 can also be utilized in other industrial applications, such as through hole imaging/inspection or laser processing....

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Z-Trak2 3D Profile Sensors

Teledyne DALSA, Machine Vision OEM Components

The Z-Trak2™ family ushers in a new era of 3D profile sensors for high-speed 3D applications. These models deliver scan speeds of up to 45 kHz combined with a suite of powerful features needed for in-line real-time height measurements.

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High-Precision Aspherical Lenses & Acylindrical Lenses

CASTECH INC.

CASTECH offers CNC precision-polished aspherical and acylindrical lenses up to 200 mm. Our aspheric lenses are iteratively ground and polished under a software supported computer-controlled processing procedure to provide better controlled quality to guaranty the high performance of each aspheric lens.

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High-Speed Sensor for Femto Lasers

LaserPoint srl

BLINK High Speed is the latest LaserPoint's achievement specifically developed to measure ultrafast lasers with pulse duration down to femtoseconds. It is the ultimate solution for whatever application requiring: accurate energy measurements for ultrafast pulsed lasers, monitoring of fast manufacturing processes in...

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77250B Hand Operated Monochromator

MKS/Newport

For general-purpose laboratory work or academic applications, the new Oriel® 77250B Series 1/8 m Hand Operated Monochromator is a smart and economical choice. This simple, manually operated instrument has good resolution, low stray light and is very versatile. A large family of slits and gratings are available to meet...

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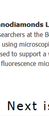

Automated Glass Components Processing

NYFORS Teknologi AB

The NYFORS SMARTSPLICER is a CO2 laser glass-processing system designed for the production of high-power and sensitive photonic components. It offers contamination free end-capping, splicing, tapering, bundling, and many other glass-shaping processes.

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White Dwarf OPCPA 5 W

Class 5 Photonics

Compact laser system specially designed for multiphoton microscopy at high performance parameters. Highest average power laser for 3-photon microscopy. Dispersion compensation included. Robust design. One-box solution. Excellent service.

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1938-R/2938-R Optical Power Meters

MKS/Newport

The all new 1938-R and 2938-R power meters inherited most of the advanced functions available in the x936-R series, as well as an up-to-date GUI, touch screen, Android OS, and high-bandwidth electronics design. Ideal for high speed, modulated light measurements, these new power meters are powerful, fast, and versatile.

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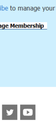

Norland Optical Splice

Norland Products Inc.

Norland's optical splice provides a high-performance connection for optic fibers in a unique one-piece design.

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Photonics Spectra Reference Chart

Photonics Media

This full-color, 30 × 20.5-inch poster of the photonics spectrum displays the major commercial laser lines, detectors and optical materials in the ultraviolet to the far-infrared and beyond. The chart was updated in 2021 to reflect the changing technologies in the photonics industry. The convenient format makes it easy to quickly find the information you need.

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HySpex Hyperspectral Cameras

HySpex

HySpex offers exceptional spectral integrity per pixel for all applications. All HySpex cameras are delivered with calibration traceable to NIST and PTB standards. HySpex can offer seamless integration of HW and data processing SW, providing their users with unparalleled capability not only to collect high-quality data but...

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.: In Case You Missed It

UV Light Reveals Opportunities for Rechargeable Battery, Fuel Cell Design

Researchers from the University of Tsukuba and collaborators have shown that UV light can modulate oxide ion transport in a perovskite crystal at room temperature. The discovery opens new avenues in perovskite research for rechargeable batteries and fuel cells, which could help increase environmental sustainability for the automotive industry.

Read Article

Foveated Glasses-Free 3D Display Achieves High Angular Resolution with Wide FOV

Glasses-free 3D displays could transform the portable electronics industry. However, the limited resolution of display panels in existing 3D displays compromises spatial and angular resolution as well as viewing angle capabilities.

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Nanodiamonds Light Up Phantoms for Microscopy Calibration

Researchers at the Beckman Institute for Advanced Science and Technology at the University of Illinois Urbana-Champaign are using microscopic nanodiamonds to calibrate and assess the performance of high-powered microscopes. The work is poised to support a wide range of research and applications, optimizing workflows by saving time in the preparation stages for fluorescence microscopic analysis.

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Features

Fiber Sensors, MIR Spectroscopy, Lidar, Quantum, and more.

Photonics Media is currently seeking technical feature articles on a variety of topics for publication in our magazine *Photonics Spectra*. Please submit an informal 100-word abstract to Daniel McCarthy, Senior Editor, at Daniel.McCarthy@Photonics.com, or use our online submission form www.photonics.com/submitfeature.aspx.

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