

This Week in PHOTONICS

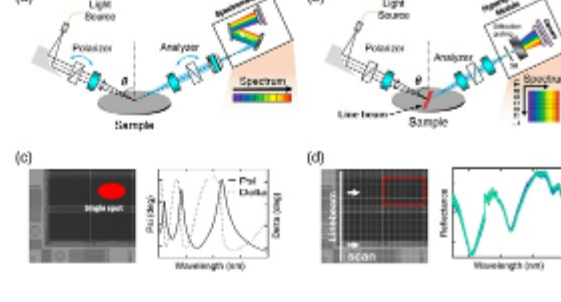


Gas Detection Identification & Quantification  **Free Webinar May 5th Register here!**

Top Stories

Hyperspectral Method Adds Speed, Accuracy to Wafer Inspection

A high-throughput metrology technique for semiconductor manufacturing, developed by Samsung Electronics, combines spectroscopy and imaging to measure in-cell uniformity (ICU) and in-wafer uniformity (IWU) of semiconductor devices used in high-volume manufacturing. The line-scan hyperspectral imaging (LHSI) approach measures semiconductor structures with speed, high spatial resolution, and high spectral resolution.



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IonQ, Hyundai Motor Combine for Image Classification, Detection

A collaboration between quantum computing company IonQ and Hyundai Motor Co. will apply quantum machine learning to image classification and 3D object detection for future mobilities. The companies aim to improve computational functionality through more efficient machine learning on quantum computers.



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Hamamatsu, Dotphoton Team to Maximize Access to Large Image Data

Raw image compression company Dotphoton will partner with Hamamatsu Photonics to make accessible higher-quality image data contained within biomedical images, such as those obtained through microscopy and cell research methods like histopathology. The generation of large volume of data in these applications leads to low scalability and high costs and complexity of required IT infrastructure.

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Featured Products



Optical Filters for Point of Care

Delta Optical Thin Film A/S

Point of Care (PoC)

Instruments have various uses in medical diagnostics, including the detection of infectious diseases such as Covid-19. These types of tests only require a single drop of blood, saliva, or urine and can be performed by a GP within minutes. Many tests require absorbance or fluorescence detection methods, which all demand optical filters. The optical filter is one of the most important components of a PoC instrument.

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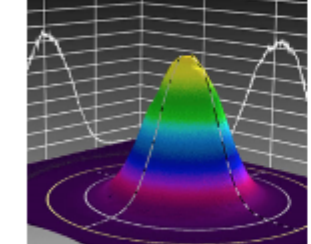
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Upcoming Webinars



Measuring Long-Wavelength Lasers with IR Cameras, Pyroelectric Scanning-Slit Sensors, and Wavelength Conversion Apparatus

Wed, May 4, 2022 1:00 PM - 2:00 PM EDT

Numerous products and techniques have been developed to enable measurement of the beam quality parameters for long wavelength light sources. Kevin Kirkham, senior manager of new business development for Ophir at MKS Instruments, presents on the types of measurement tools available for long wavelength sources and helps determine which tools are appropriate for different applications. While there are many considerations that can significantly impact the laser process, an understanding of performance qualities can ensure users see successful outcomes. Presented by Ophir.

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Expanding Implementation of Fast Optimization Technology for Photonics, Optics, and Quantum Manufacturing Applications

Tue, May 10, 2022 1:00 PM - 2:00 PM EDT

High-speed parallel alignment technology can dramatically shorten the time required to optimally align multiple optical or photonic elements, typically by 99% or more. Scott Jordan, head of photonics for PI (Physik Instrumente) L.P., shares how the fields of application have expanded from their original use in piezo nanopositioners to implementation into modular stacked-axis motion assemblies, gantry (Cartesian robot) configurations, and hexapod microrobots. This has brought the dramatic benefits of production economics to large-format applications, such as PCBs and trays. The technology is firmware-based, meaning that one intelligent command can autonomously optimize complex photonic and optical assemblies. Presented by PI (Physik Instrumente) L.P.

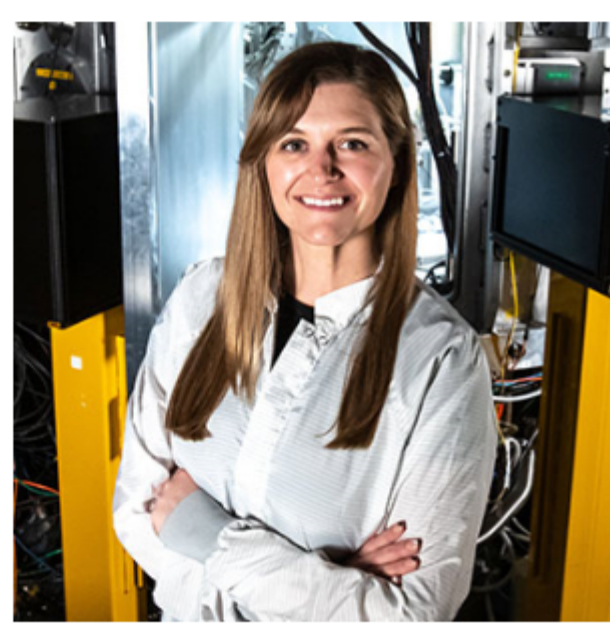
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LASYS International trade fair for laser material processing
 THE PLACE TO BEAM
 21-23 June 2022
 Messe Stuttgart

ALL THINGS PHOTONICS
 A podcast from Photonics Media

All Things Photonics

Chandra Breanne Curry, coordinator of the LaserNetUS consortium, offers insights into high-intensity laser systems, supported applications, and an update on fusion science. The 10-system consortium supports research across disciplines, from biomedical science to plasma physics. **Miriam Vitiello**, director of research at the National Research Council of Italy, professor of condensed matter physics at the Scuola Normale Superiore, and co-author of "The 2017 Terahertz Science and Technology Roadmap," picks up our running conversation on the terahertz band, quantum cascade lasers, and forthcoming developments.



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