

This Week in PHOTONICS



Gas Detection Identification & Quantification

Free Webinar
May 5th
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Top Stories

PhotonDelta Funding Fast-Tracks Netherlands' Photonics Position

PhotonDelta, the Eindhoven, Netherlands-based integrated photonics ecosystem, has secured more than €1 billion in public and private investment to support semiconductor development and manufacturing in the Netherlands. The funding establishes a six-year program and enables PhotonDelta and its partners to make further investments in photonic startups and scaleups, expand production and research facilities, and develop a world-class design library.

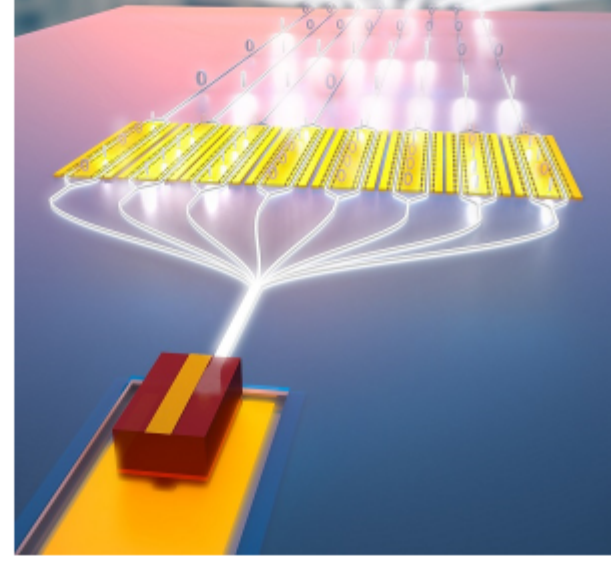
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Integrated Laser on Lithium Niobate Chip Supports Advanced Telecom

Researchers at the Harvard John A. Paulson School of Engineering and Applied Sciences (SEAS) developed what they claim to be the first fully integrated high-power laser on a lithium niobate chip. The technology paves the way for high-powered telecommunications systems, fully integrated spectrometers, optical remote sensing, and efficient frequency conversion for quantum networks, among other applications.

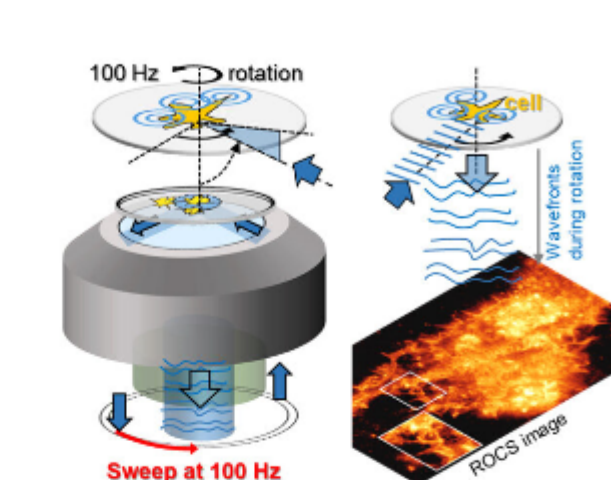
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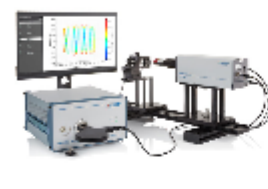
Rotating Laser Enables Faster, Longer Imaging of Cells

A microscopy method developed at the University of Freiburg is able to resolve cellular-level detail without fluorescence, enabling observations 100 to 1000x longer and 10 to 100x times faster, with almost double the resolution. The technique is called rotating coherent scattering (ROCS).

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Featured Products



[Polarization-controlled VCSEL Testing](#)

**Instrument Systems
Optische Messtechnik**

GmbH

VTC 4000 is Instrument System's measurement solution for near-field characterization of VCSEL arrays. It enables absolutely calibrated, traceable, and polarization-controlled 2D analysis. Consisting of camera and microscope optics, position, radiant power, and polarization of single emitters on VCSEL arrays can be captured fast and accurately in a one-shot measurement.

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Bristol Instruments Inc.

The 671 Series Laser

Wavelength Meter uses a proven Michelson interferometer-based design to measure the wavelengths of CW lasers to an accuracy as high as ±0.2 parts per million. Operation is available from 375 nm to 12 μm. Continuous calibration with a built-in wavelength standard guarantees the reliable accuracy that is required for the most meaningful experimental results.

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NYFORS Teknolog AB

CO2 laser glass-processing is

designed to produce high-power and sensitive photonic components and complex structures. It guarantees contamination-free processing for fiber array splicing, ball lensing, end-capping, and many other challenging processes. NYFORS also manufactures automated high-precision solutions for fiber preparation, such as stripping, cleaving, recoating, and end-face analyzing. NYFORS offers custom workcell automation solutions.

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[Machine Vision](#)

Photonics Media

Machine Vision is a book for anyone designing or selecting machine vision systems, and implementing or considering the use of machine vision for a specific application. This engaging overview is a resource for designers, engineers, researchers, marketers and students looking for a broad survey of advancements in systems, components and processes, as well as some applications that are making good use of them.

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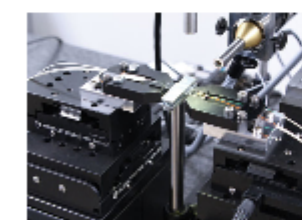
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Upcoming Webinars

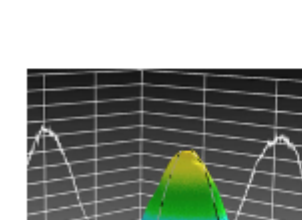


Achieving Ultralow-Loss Photonics Array Alignment

Tue, Apr 26, 2022 1:00 PM - 2:00 PM EDT

Two- and three-dimensional photonic arrays are commonly used for coupling light in photonic integrated circuits. With the increasing demand for ultra-low loss transmission in applications such as datacom, artificial intelligence (AI), virtual reality (VR), and quantum computing, the need for fast and precise alignment of photonic arrays to other devices is critical. Darrell Paul will present the current industry challenges and limitations as well as automation solutions for achieving ultra-low loss photonics alignment. Presented by Aerotech.

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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 its 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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