



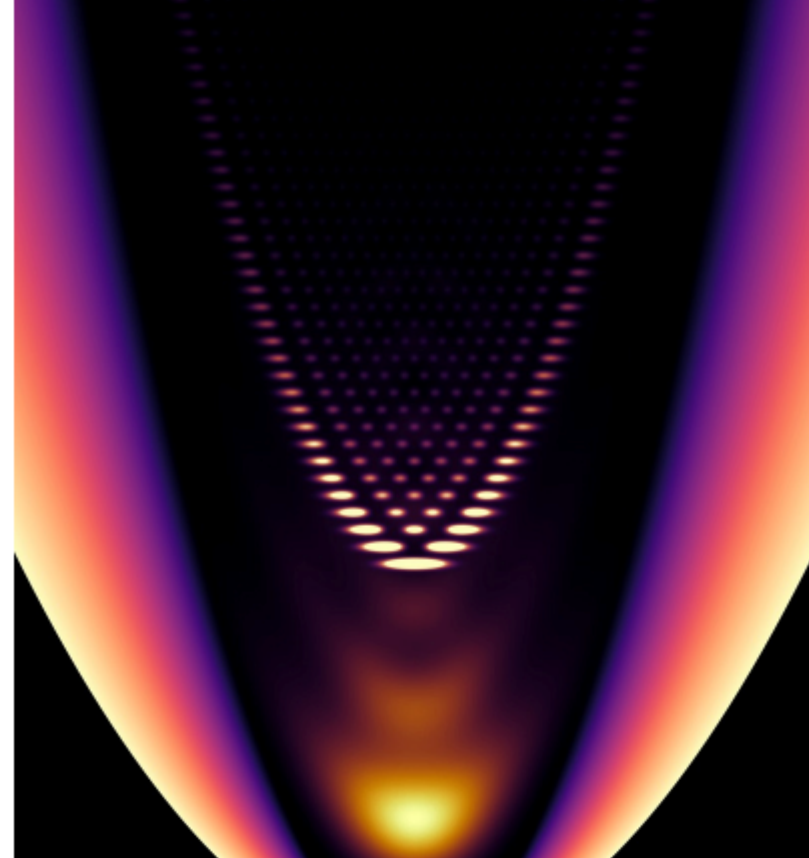
Weekly News



Intel Draws Interest from Tech Giants after Flurry of Moves

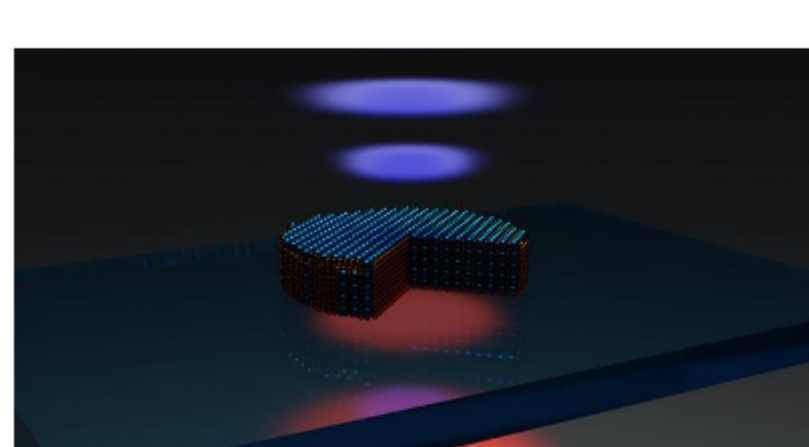
Intel is making headlines after landing a huge deal with Amazon, receiving a \$3B grant from the U.S., and announcing moves to make its foundry business its own entity. All this and more acquisitions and mergers on this installment of Photonics Spectra Now.

[Watch Now](#)



One-Dimensional Gas Created with Light

Physicists from the Institute of Applied Physics at the University of Bonn, in cooperation with colleagues at the University of Kaiserslautern-Landau, have created a one-dimensional gas out of light particles. The work enables the testing of theories about the transition to this state of matter for the first time. [Read Article](#)



Nanodisk Device Could Advance Nonlinear, High-Index Nanophotonics

A photonics nanostructure that combines a high refractive index with extreme optical nonlinearity could offer a compact, efficient option for compressing light and changing light frequency. The nanodisk structure could be integrated into optical circuits or used in the miniaturization of photonic devices, in addition to being used as a research tool.

[Read Article](#)



VISION Show to Highlight Embedded Vision, Hyperspectral Imaging

The 31st biannual VISION conference returns to the Stuttgart Trade Fair Center in Stuttgart, Germany, Oct. 8 to 10. The trade fair includes industry veterans and exhibitors across several sectors demonstrating products, technologies, and the latest innovations in embedded vision, hyperspectral imaging, AI, and deep learning. [Read Article](#)



Featured Products & Services

CO₂ Laser Glass-Processing
 NYFORS Teknologi 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 linear, 2D and gapless 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 inspection. NYFORS offers custom workcell automation solutions.

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Duplex Logic To Fiber Optic Converter
 Highland Technology Inc.
 The Highland K420 is a bi-directional, electrical-optical/optical-electrical data link with differential logic input and output, capable of transporting single or bi-directional digital data at speeds up to 2 GHz. The included Cisco SFP-10G-SR plugin module can operate at distances up to 400 meters with 50-micron OM4 or better fiber.

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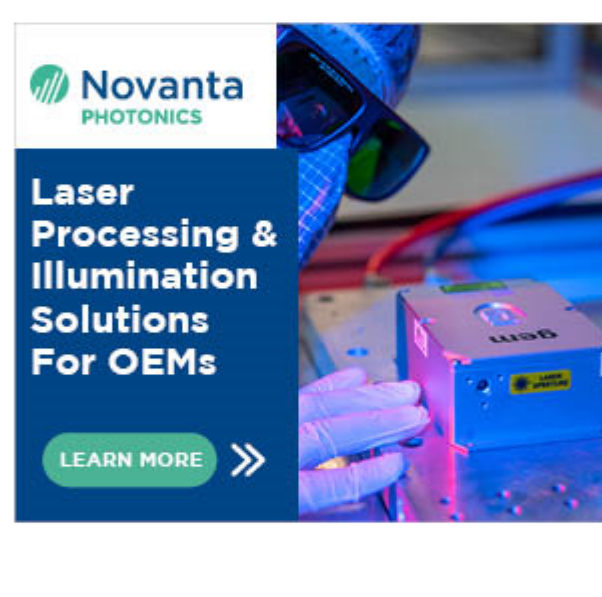
Order Sorting Filters
 Delta Optical Thin Film A/S
 Delta Optical Thin Film offers Continuously Variable Order Sorting Filters well suited for diode array spectrometers.

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Precision Polished Substrates
 Ohara Corporation
 Ohara is a leading manufacturer of double-side polished substrates with extremely low surface roughness (RMS ~2 Angstroms) and flatness (~1 μm) values. Sizes 25- to 360-mm diameter, thin (down to 50 μm) and ultra-clean. Fused silica, optical glass, etc.

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Looking for something else? Check the Photonics Marketplace.

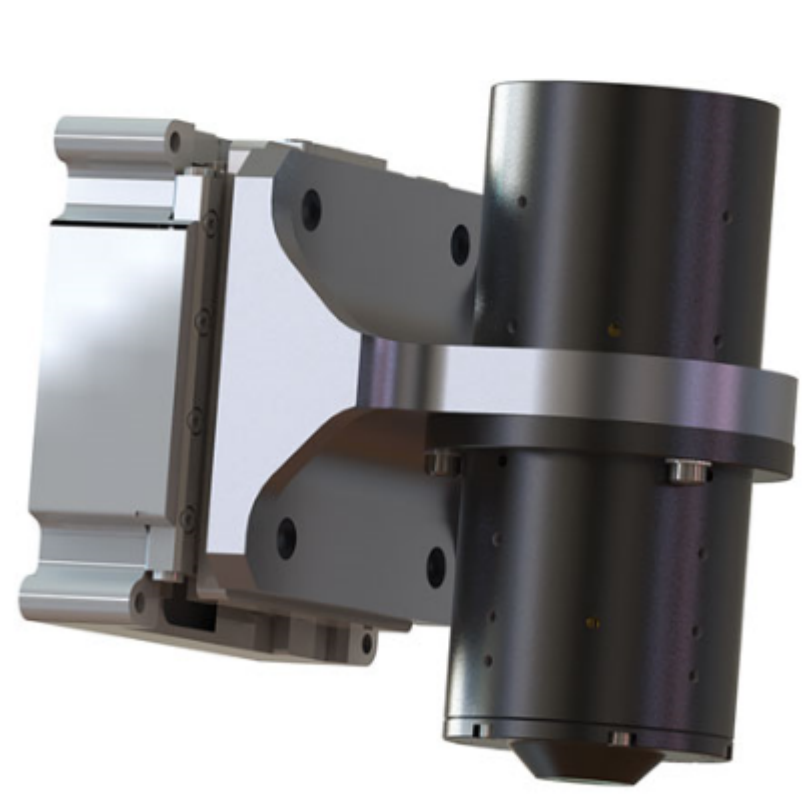


More News

- [Ansys, TSMC, Collaborate with Microsoft on High-Speed Optical Data Transfer](#)
- [Integrated Photonics Companies Join Forces, Target Hybrid Solutions Supply Chain](#)
- [HyperLight Lands \\$37M to Advance Lithium Niobate Tech](#)
- [U.S. Department of Energy Awards Blue Laser Fusion Funds to Develop High-Energy Laser for Fusion Energy](#)



Latest Webinars

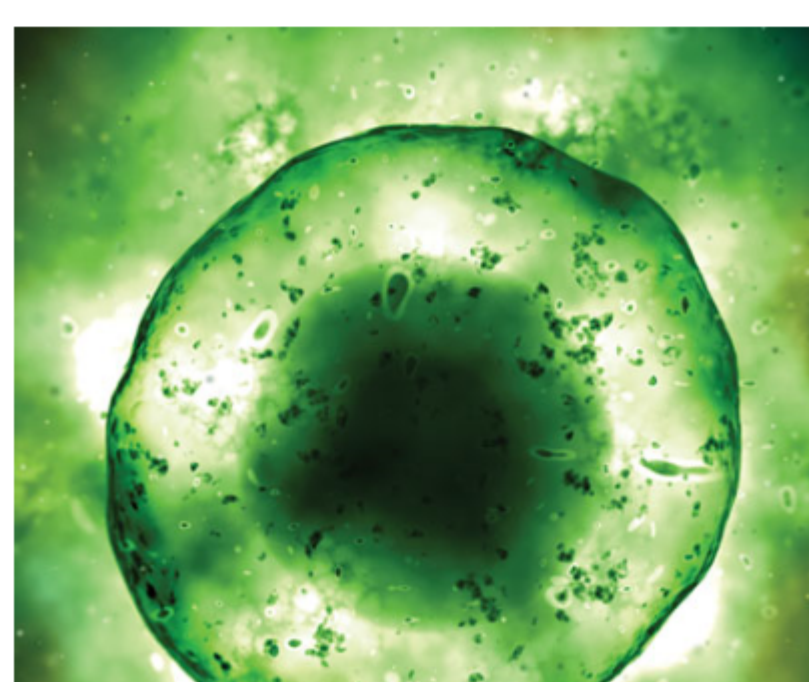


Accelerating Life Science Imaging Instrument Development with Unrivaled Performance and Speed

Wed, Oct 9, 2024 2:00 PM - 3:00 PM EDT
 Developing a high-performance fluorescence microscope is a challenging task in which all subsystems must work in harmony. In this webinar, Joseph Mulley and Jim Feeks from IDEX Health & Science introduce key system architecture decision points and discuss their pros and cons. By properly considering the impact of each decision on the full optical system, it is possible to design a more cohesive microscope that achieves a desired performance. This presentation then introduces the Melles Griot XPLAN CCG Lens Series and Dover Motion DOF-5 Precision Z-stage and explains how these components can enable a high-performance breadboard microscope under an accelerated timeline. Join this educational webinar led by industry experts

who provide insightful knowledge of fluorescence microscope design and learn how to stay ahead of the curve by maximizing an imaging system for an application. Presented by IDEX Health & Science.

[Register Now](#)



Multiplex Imaging: Camera, Lights, Optics, Action!

Tue, Oct 29, 2024 10:00 AM - 11:00 AM EDT
 Multiplex imaging, either multicolor fluorescence or multispectral absorption and reflection imaging, is rapidly gaining popularity in the life sciences and medical arenas. Being able to image samples at a variety of wavelengths in live or fixed samples provides a depth of information that was never possible to attain with conventional microscopy. From deeper tissue penetration to enhanced surgical guidance and improved disease detection, multiplex imaging enhances medical diagnostics with noninvasive, detailed, live insights into pathological and biological states of tissue for better patient outcomes. This webinar discusses the options and requirements for performing multiplex imaging from the illumination to the detection and the optics in between to navigate the light to and

from the sample. Presented by Excelitas Technology Corp.

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Call for Articles
 Photonics Media is currently seeking technical feature articles on a variety of topics for publication in our magazines (*Photonics Spectra*, *BioPhotonics*, and *Vision Spectra*). Please submit an informal 100-word abstract to editorial@Photonics.com, or use our [online submission form](#).



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