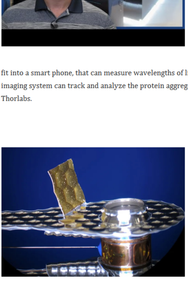
Thursday, August 7, 2025

PHOTONICS spectra

Weekly News



SPIE Elects Imaging Expert Into Presidential Chain

SPIE has elected Kyle J. Myers as its 2026 Vice President. She will serve as president in 2028. SPIE also adds 92 new senior members. Teramount raises $50 million to help grow its team and scale up production of its optical interconnect technology. Ephos will build a new manufacturing facility in Italy after receiving a $48 million grant. Researchers from MIT's FUTUR-IC have developed a way to co-package photonic chips with electronic counterparts. Scientists at North Carolina State University have demonstrated a spectrometer small enough to fit into a smart phone, that can measure wavelengths of light from ultraviolet to the near infrared. And a "self-driving" imaging system can track and analyze the protein aggregation that's linked to neurodegenerative diseases. Sponsored by Thorlabs.

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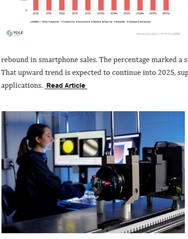
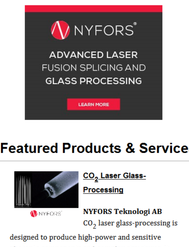


National Lab Team Achieves Fusion Ignition Using Sophisticated Diagnostic Tool

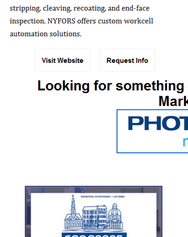
A collaborative research team from Los Alamos National Laboratory and Lawrence Livermore National Laboratory has implemented its Thinned Hohlraum Optimization for Radflow window diagnostic tool in its latest ignition experiment at the National Ignition Facility. The team conducted an experiment that generated a yield of 2.4 +- 0.09 MJ of energy and created a self-sustaining feedback loop called a "burning plasma."

Read Article



CMOS Image Sensor Market Predicted to Reach $30B by 2030

Analysts at Yole Group are predicting the CMOS image sensor market to reach $30 billion by 2030, driven by smartphone and mobile sales, as well as automotive and security applications. In the report, Status of the CMOS Image Sensor Industry 2025, analysts noted a significant market rebound in 2024, following a period of modest sales. Revenues rose in 2024 by 6.4% year-over-year, driven by the forecasted rebound in smartphone sales. The percentage marked a significant boost from the 2.3% growth between 2022 and 2023. That upward trend is expected to continue into 2025, supported by momentum in mobile, automotive, and security applications. Read Article



Eoptic, Starris: Optimax Space Systems Partner on Multispectral Imaging Payloads

Eoptic and Starris: Optimax Space Systems have partnered to build end-to-end satellite imaging payloads. The partnership, combining Eoptics' expertise in imaging science and onboard processing and Starris' expertise in precision optics and scalable manufacturing, will commence work on a first system that will yield a compact, deployable UV multispectral payload. The system will focus on hyperspomic missile detection and tracking, combining Eoptic's Cambrian multispectral technology with the Starris SDA-85 monolithic telescope. Read Article

Featured Products & Services

CO_2 Laser Glass-Processing

NYFORS Teknologi AB

CO_2 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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ImSym – Imaging System Simulator

Synopsys Inc., Optical Solutions Group

ImSym – Imaging System Simulator is an industry-first virtual prototyping platform for imaging systems, lenses, sensors, and image signal processors. With proven accuracy powered by CODE V and LightTools software, ImSym reduces the need for physical prototypes and enhances team collaboration.

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More News

Lightium, MPI, Axiomatic_AI Unite Capabilities For PICs Testing

Amphenol to Acquire CommScope's Connectivity and Cable Solutions Business

Researchers Make a Step Toward Compact X-Ray Free-Electron Lasers

Spectrometer Measures from UV to NIR, Small Enough for Smartphone

Latest Webinars

Autonomous Multiscale Tissue Imaging

On-Demand

Kevin Dean will highlight the successful application of MCT-ASLM across diverse model systems. By integrating automation, extensive volume coverage, and subcellular resolution, MCT-ASLM opens new avenues for comprehensive tissue analysis. The platform holds immense promise for accelerating discoveries in neuroscience, oncology, and developmental biology, offering new insights into the complexities of biological systems. Multiscale Cleared Tissue Axially Swept Light-Sheet Microscopy (MCT-ASLM) addresses a core challenge in biological imaging: visualizing rare events or structures distributed across large, complex tissues. By combining centimeter-scale fields of view with targeted, high-resolution imaging at ~300 nm, this new microscopy platform enables researchers to examine entire specimens and seamlessly zoom in to investigate finer cellular or subcellular details. Sponsored by Jenoptik.

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All Things Photonics

Next Generation of Phase Change Materials and Scientists — With Jasper Stackawitz

Jasper Stackawitz, a rising senior at Pennsbury High School in Pennsylvania and recipient of the 2025 Teddi C. Laurin Scholarship, discusses his path to the world of photonics research, his work with phase change materials, and how we might reach a new generation of photonics professionals.

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