



## Weekly News



Universidad Pública de Navarra have developed a system for 3D graphics that can be manipulated by hand. Sponsored by Chroma Technology and LightPath Technologies

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## Breaking Records for Thulium Fiber Lasers, and the White House Discusses Semiconductor Tariffs

A new thulium fiber laser system from the Fraunhofer Institute offers nearly double the performance of its predecessors. The White House is considering a new "semiconductor tariff." Headwall Photonics is teaming up with GRYFN to streamline hyperspectral data collection and processing. nEeye Systems is raking in \$58m to advance its radix silicon photonic switch. Sparrow Quantum raises \$25m for quantum chip technology. And researchers from

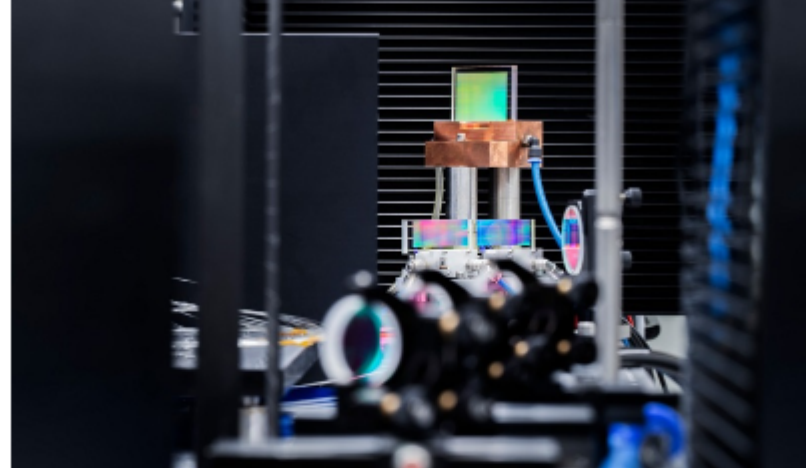
## 'Holograms' Can Now Be Manipulated with Human Hands

Work conducted by Universidad Pública de Navarra researchers has produced 3D graphics in mid-air that can be manipulated by a user's hands. The innovation enables new ways to interact with 3D graphics, allowing users to grasp and manipulate virtual objects naturally. [Read Article](#)



## Headwall Partners with GRYFN to Boost Hyperspectral Imaging

Headwall Photonics has partnered with GRYFN, a developer of multi-modal sensing solutions, to streamline hyperspectral data collection and processing. The collaboration seeks to enhance accessibility and precision for industries such as agriculture, natural resources, environmental monitoring, and defense. [Read Article](#)



## Thulium Fiber Lasers Almost Double Previous Performance Record

Researchers at the Fraunhofer Institute for Applied Optics and Precision Engineering IOF have developed thulium fiber laser systems that almost double the previous performance world record. The system is made up of three high-power thulium fiber lasers that emit light in the spectral range of 2030 to 2050 nm and achieves an outpower of up to 1.91 kW, close to double that of conventional systems at ~1.1 kW. [Read Article](#)



## Featured Products & Services



### Experience the Future of Photonics!

Messe Muenchen GmbH

Experience the future of photonics! Laser World of Photonics 2025, June 24-27, offers the latest innovations, top experts, and networking opportunities. Exhibitors from around the globe, live demos, and a world-class forum program await you. Get your ticket now!

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### Large Format, High Res. Industrial Lens

Schneider Optics Inc., Industrial Optics

Schneider Optics' THULITE

industrial lenses for large sensors up to 32 mm (2"). Resolution down to 2.4 µm pixel size. Focal lengths of 35 mm, 50 mm and 75 mm. Broadband AR coating for imaging from 400 to 700 nm. Optimized for microlenses to prevent shadowing.

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### High-Res Microscope Objectives

Shanghai Optics Inc.

Shanghai Optics' microscope objectives offer 2x - 200x magnification, achromatic to apochromatic options, and high NA designs. Ideal for medical, research, and industrial applications, these lenses deliver high-resolution imaging for detailed analysis.

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### 2025 Photonics Buyers' Guide

Photonics Media

The 2025 edition lists over 4000 companies under 1600 product categories and includes 30 articles from the Photonics Handbook. Use coupon code HP25 for a special offer!

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## Looking for something else? Check the Photonics Marketplace.



## More News

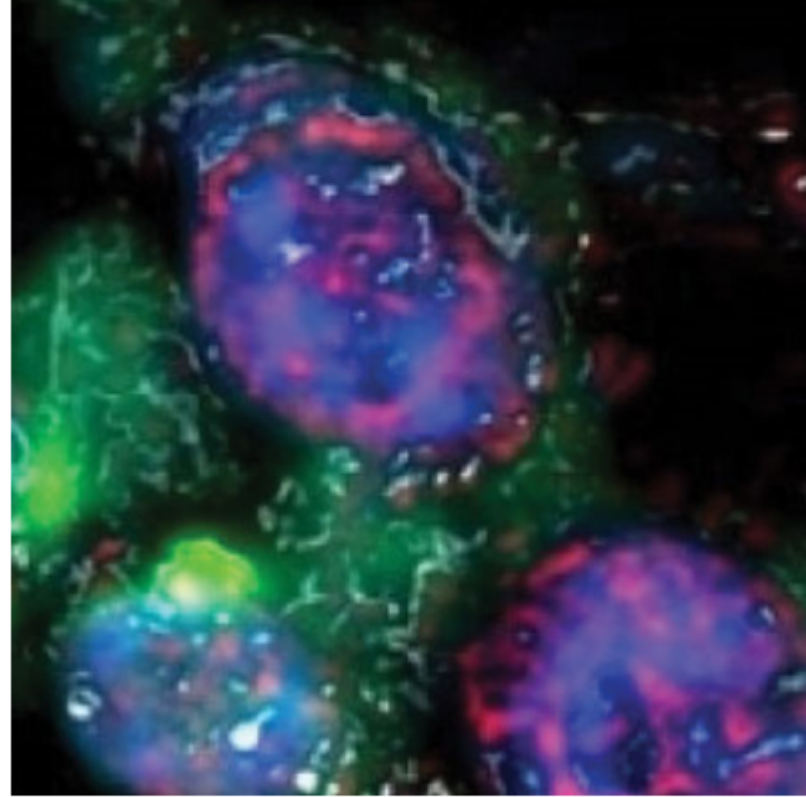
[nEye Systems Secures \\$58M for Optical Switch Tech](#)

[Amplifier Increases Data Transmission Tenfold](#)

[Sparrow Quantum Lands \\$24M for Photonic Quantum Innovations](#)

[DESY Reports Laser Plasma Acceleration Milestone](#)

## Latest Webinars



## Advancing Raman Spectroscopy by Using Bioresponsive Optical Nanomaterials

Wed, May 7, 2025 1:00 PM - 2:00 PM EDT

Raman spectroscopy provides label-free molecular characterization by detecting chemical bond vibrations, enabling direct visualization of molecular responses in living cells and tissues. Despite significant advancements, the clinical translation of Raman spectroscopy has been hindered by two key challenges: limited detection sensitivity and insufficient specificity. For instance, it has not found use in imaging enzyme activity, a significant aspect of biomedical research. Leveraging nature-inspired self-assembly strategies, intracellular bioorthogonal enzyme-responsive nanopores (nanoSABER) have been developed. Engineered from enzyme-responsive peptides, these nanopores assemble into supramolecular

structures with distinct Raman-active vibrational signatures upon interaction with targeted enzymes. Incorporating vibrational tags such as alkyne (C≡C) and nitrile (C≡N) groups within the cell-silent Raman window (1800 to 2600 cm<sup>-1</sup>), nanoSABER specifically images enzyme activity with minimal interference from endogenous cellular signals.

[Register Now](#)

## All Things Photonics



## Graphene: At the Intersection of Photonics and 2D Materials Science — With Andy MacInnes

Graphene's recent and ongoing ascent into commercial applications and consumer devices is the focus of our conversation with **Andy MacInnes**, chief development officer at Paragraf. The Cambridge, England-based developer of graphene-enabled sensors offers custom foundry services, placing it in a distinct location on the semiconductor manufacturing value chain.

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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](mailto:editorial@Photonics.com), or use our [online submission form](#).

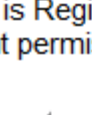


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