

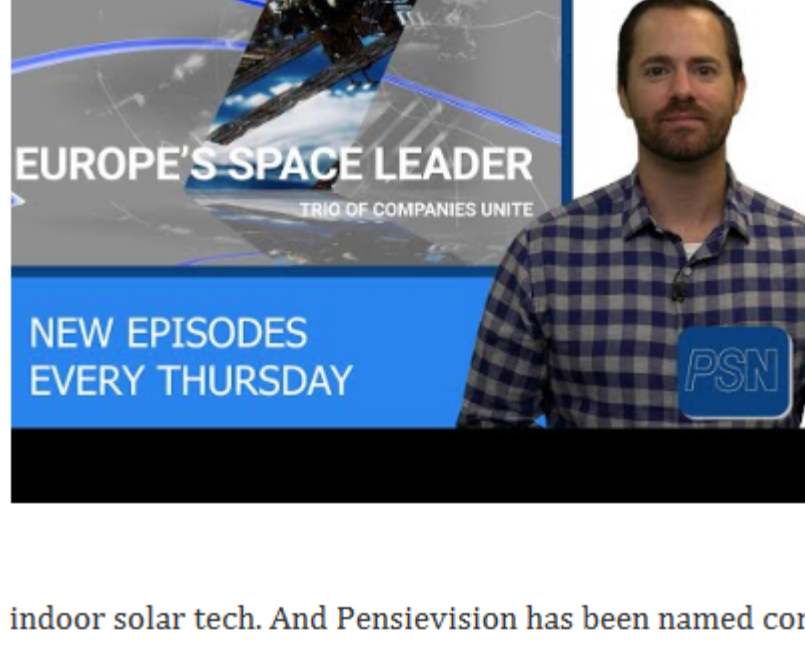


Weekly News

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Trio of Companies to Create Europe's Biggest Space Player

Airbus, Leonardo, and Thales are pooling their space expertise to form a new company that could become Europe's biggest force in space. University of Arizona researchers have discovered a path toward clearer, deeper views of tissue, which could aid in the diagnosis of skin cancer. Scientists are integrating deep learning into medical imaging to push the boundaries of diagnostic and therapeutic research.

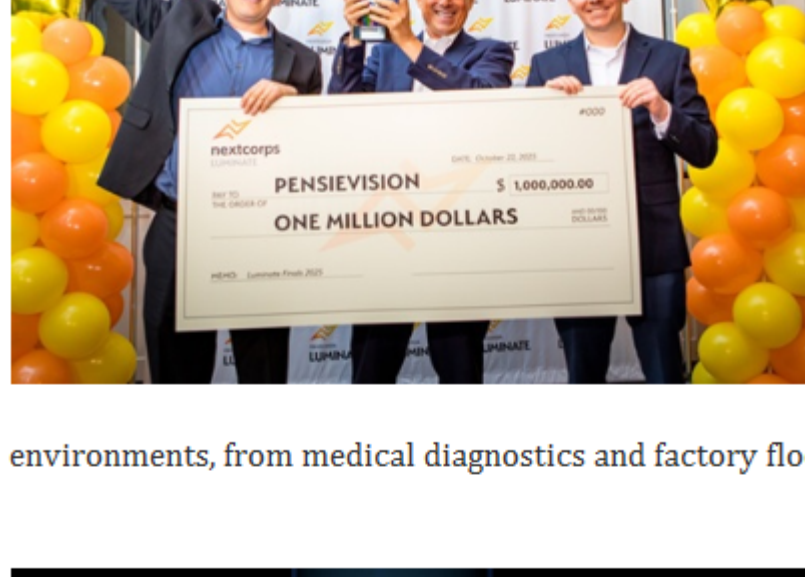
Researchers from Simon Fraser University may have found a way to overcome long-standing inconsistencies in testing

Pensievision's solution delivers 3D imaging for demanding

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indoor solar tech. And Pensievision has been named company of the year at the Luminate NY Finals held in Rochester.

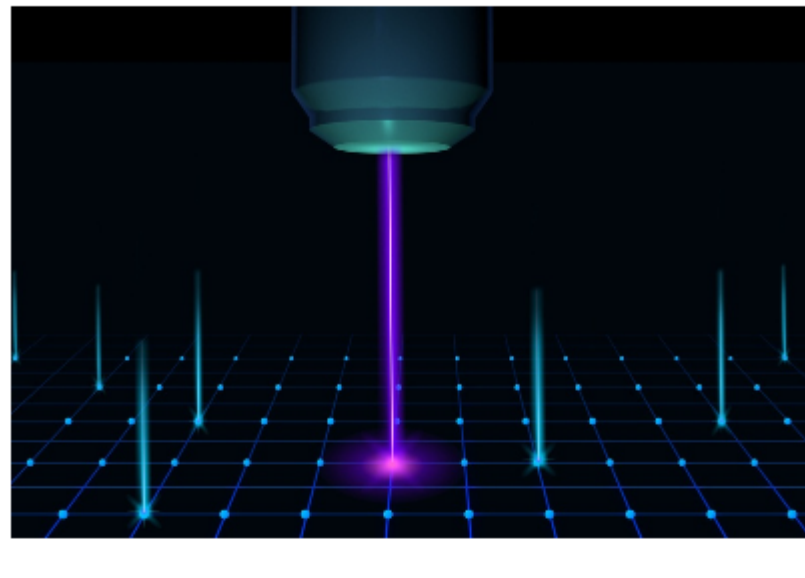
Sponsored by Edmund Optics and Thorlabs.



Pensievision's 3D Imaging Tech Shines at Luminate Finals Competition

Pensievision, a creator of 3D imaging technology for industrial applications and medical devices, received the Company of the Year Award at the Luminate NY Finals 2025, held this week in Rochester. Along with the title, the company received a \$1 million investment from New York State through the Finger Lakes Forward Upstate Revitalization Initiative.

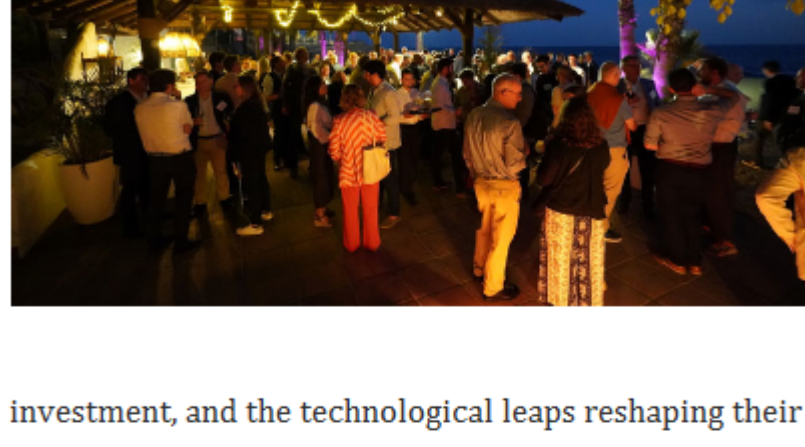
Pensievision's solution delivers 3D imaging for demanding



Computational Superresolution Method Shifts the Paradigm of Individual Atom Imaging

Think of an atom as a grain of sand, and a wavelength of light as an ocean wave. The light wave can dwarf an atom, missing it entirely as it passes by. This gulf in size has long made it impossible for scientists to see and resolve individual atoms using optical microscopes alone. Superresolution techniques have broken this diffraction limit, allowing scientists to view

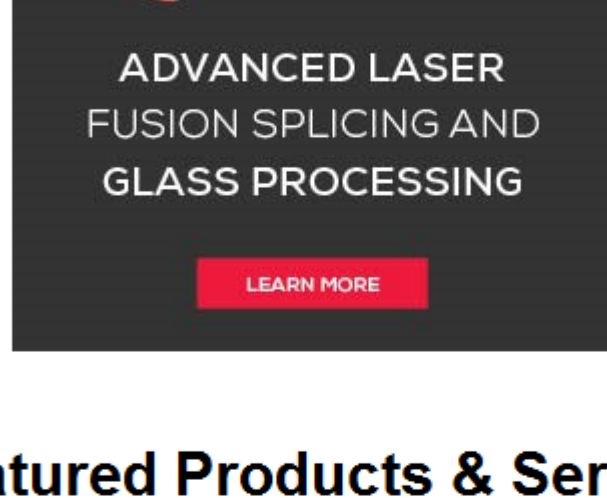
features smaller than the wavelength of light, down to the scale of a single molecule. Atoms, however, have remained too small for optical microscopes, until now. [Read Article](#)



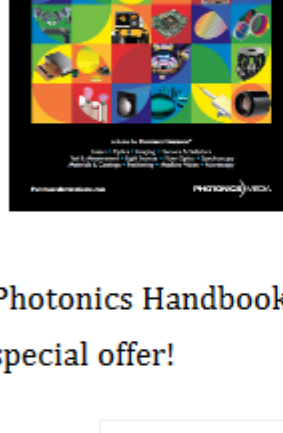
Photonics in Transition: Strategic Insights from the Global Photonics Economic Forum

With most of northern Europe already gray and wet, early October still felt like summer on Spain's Costa del Sol. That warmth seemed to match the mood at the Global Photonics Economic Forum in Málaga, where more than 300 senior executives from across the industry gathered to talk strategy,

investment, and the technological leaps reshaping their businesses. [Read Article](#)



Featured Products & Services



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 **SP25** for a

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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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More News

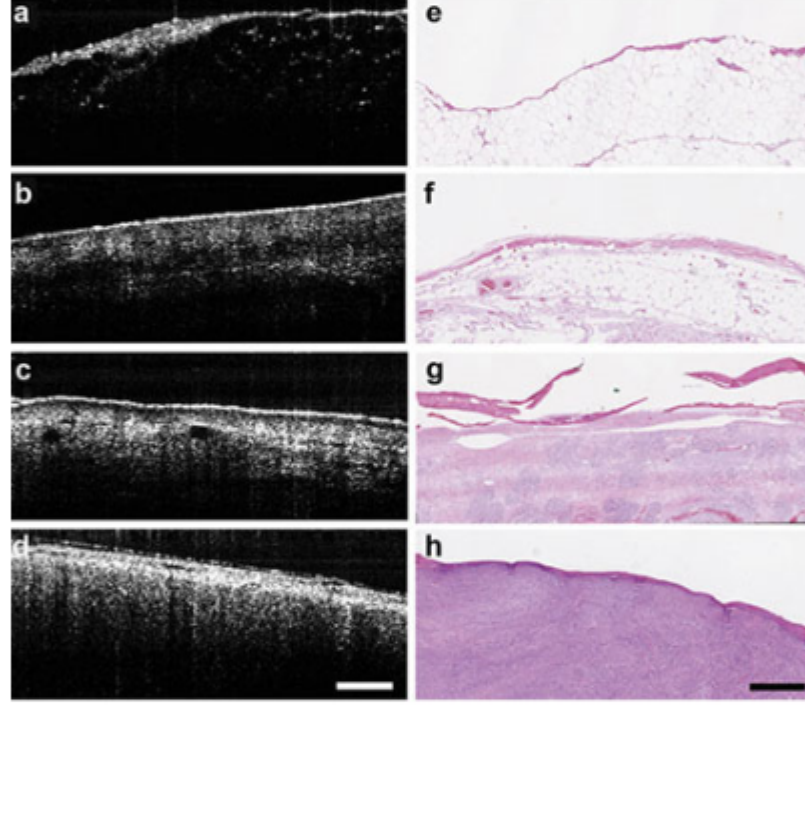
[Anduril Industries Acquires American Infrared Solutions](#)

[Airbus, Leonardo, and Thales to Pool Space Resources into Standalone Company](#)

[TRUMPF Cautiously Optimistic for Recovery Following 16% Revenue Drop](#)

[Wearable Optical Device Distinguishes Blood Flow Signals](#)

Latest Webinars



Intraoperative PS-OCT in Cancer Surgery in Dogs and Cats

Thu, Nov 6, 2025 1:00 PM - 2:00 PM EST

Surgery is a cornerstone of cancer treatment in dogs and cats, but assessing tumor margins has long relied on slow, limited histopathology. Polarization-sensitive OCT (PS-OCT) offers a real-time, non-invasive solution for intraoperative margin evaluation. Clinical trials in dogs and cats demonstrate that PS-OCT accurately distinguishes tumor tissue from surrounding structures, enabling immediate surgical intervention when margins are incomplete. This approach may reduce repeat procedures, lower patient morbidity, and ease financial burdens for pet owners. Sponsored by ThorLabs.

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Breaking the Manual Barrier: Automated Alignment for Photonics

Mon, Nov 10, 2025 11:00 AM - 12:00 PM EST

Manual, photonics alignment limits throughput and scalability. Modular, automation-ready systems with multi-axis drives and fast scan technology boost efficiency and precision while integrating measurement workflows. Explore these advances in "Breaking the Manual Barrier: Automated Alignment for Photonics." Presented by SmarAct.

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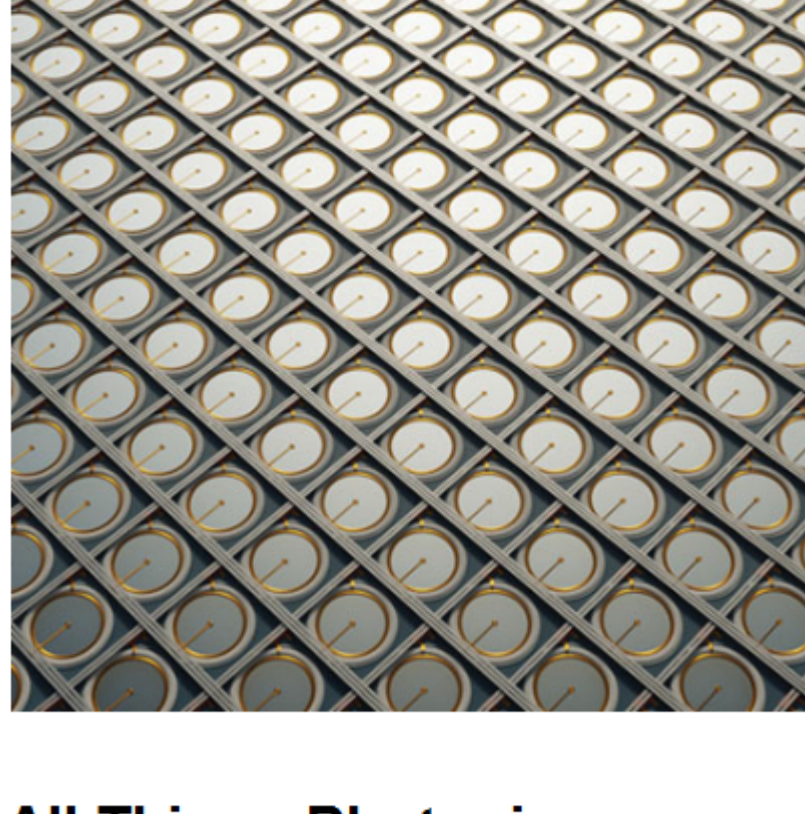


Glass Microcomponents for Fiber Connectivity in Co-Packaged Optics and Quantum Photonics

Tue, Nov 11, 2025 11:00 AM - 12:00 PM EST

Nowadays, photonic packaging is rapidly evolving, driven by the rise of integrated and quantum photonics. For example, an efficient and precise connection between optical fibers and photonic integrated circuits is essential to ensure high performance, low latency, and signal integrity. FEMTOPRINT, a leader in ultrafast laser microfabrication, addresses this need through the production of high-precision glass microcomponents that offer a unique combination of design flexibility, engineering precision, and scalability for industrial applications.

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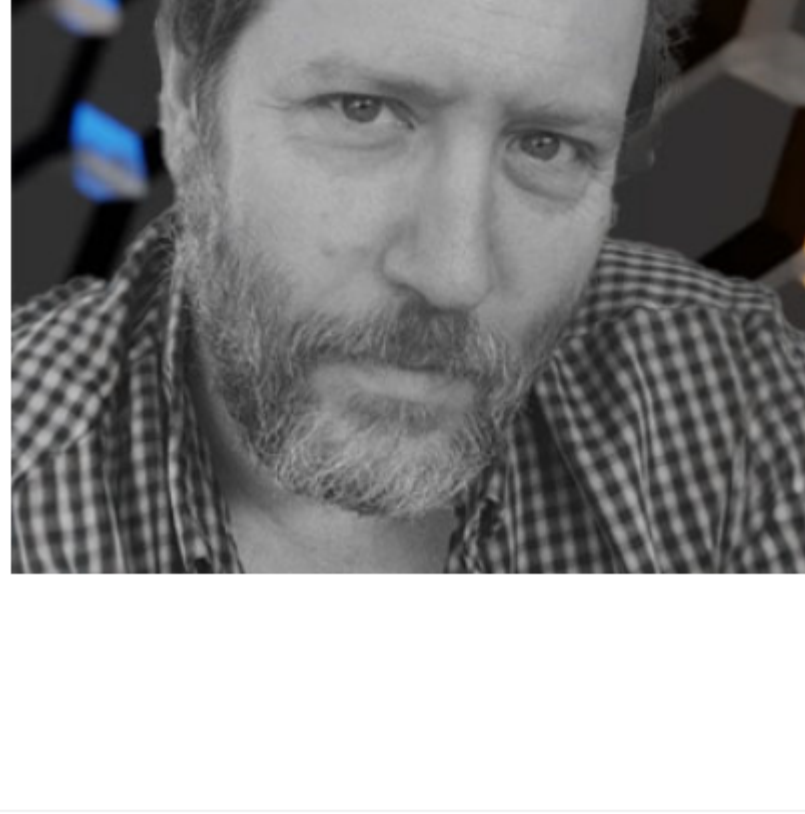
SPAD Arrays and Cameras: A Comparison with Conventional Image Sensors and Detectors

Wed, Nov 12, 2025 10:00 AM - 11:00 AM EST

The discussion focuses on the working principles of SPAD-based systems and outlines scenarios in which these systems offer unique advantages compared with conventional solutions, depending on the application.

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All Things Photonics



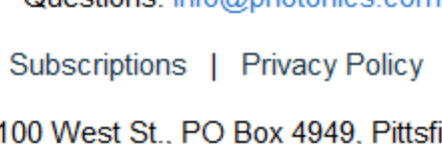
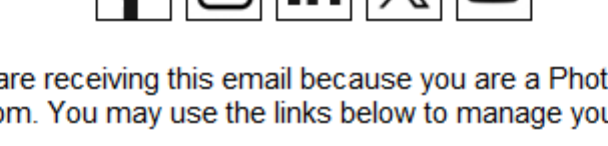
Bringing AR/VR to the Front Lines – With Rob Schultz

Detailed digital displays are leaping out of our video games and onto the front lines. Vuzix specializes in AI-powered smart glasses, waveguides, and augmented reality. It just secured a contract to provide customized waveguides for one of America's leading defense contractors. Those waveguides will be designed to operate in new, lightweight, head-up displays for military personnel. This technology could provide men and women with maps, vital statistics, and mission-critical intelligence, right in front of their eyes. **Rob Schultz**, vice president of optics for Vuzix, joins us to discuss how technology is transforming video game fiction into real tactical equipment.

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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](#).

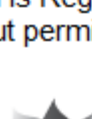


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