

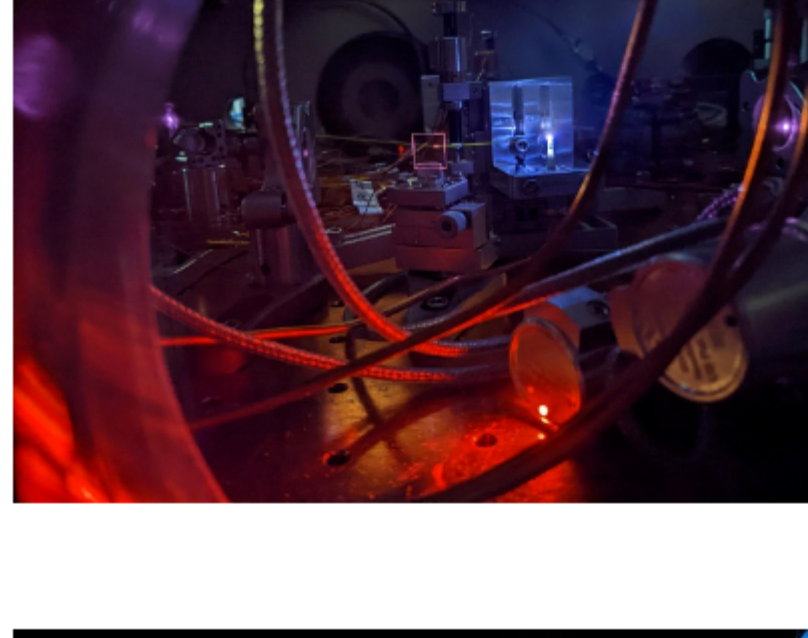


Weekly News



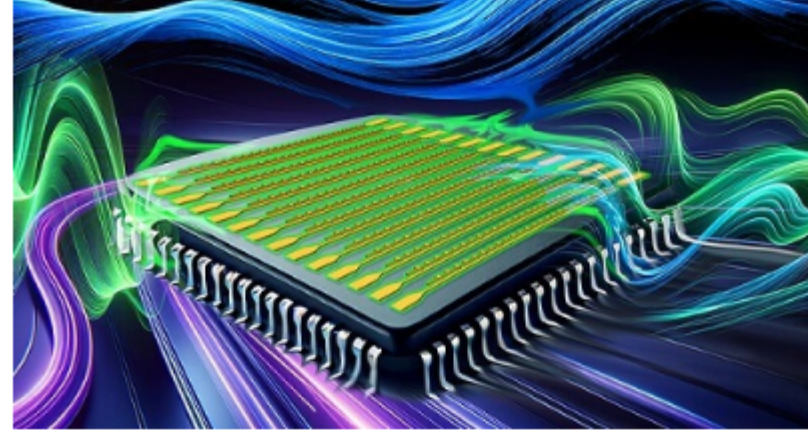
Photonics Spectra Now to Debut as Weekly Broadcast

Photonics Media will launch a weekly news broadcast on Sept. 12 titled Photonics Spectra Now, delivering the most important headlines, such as technology advances, major personnel moves, high dollar business details, and everything in between. [Read Article](#)



UV Lasers and Combs Provide High Frequency Light for Nuclear Clock

An international team of JILA-led scientists demonstrated the key components of a nuclear clock, including the precise frequency measurements of an energy jump in the nucleus of a thorium-229 (Th-229) atom. While the team's laboratory demonstration is not a fully developed nuclear clock, it contains all the key technology for one. [Read Article](#)



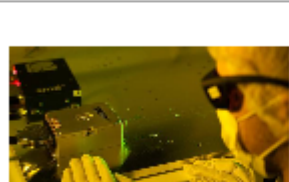
Petahertz Frequency Lightwave-Electronic Mixer Could Boost Communications

A research team from MIT demonstrated a lightwave-electronic mixer at petahertz-scale frequencies, creating a first step toward making communication technology faster. The technology may also progress research toward developing new, miniaturized lightwave-electronic circuitry capable of handling optical signals directly at the nanoscale.

[Read Article](#)



Featured Products & Services

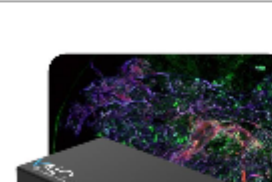


Gem - Solid-State Continuous-Wave Laser

Novanta Photonics,
Precision Medicine & Manufacturing
Air-cooled solid-state continuous-wave laser designed for easy integration into OEM instrumentation, delivering high power in a compact platform. Ideal for a range of applications from super resolution microscopy, Raman, holography through to semi-conduction inspection and particle counting.

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Ultrafast Fiber Lasers: <50 fs, 2 W

HÜBNER Photonics GmbH
HÜBNER Photonics proudly announces the next generation of the VALO femtosecond lasers. The new Tidal delivers pulse durations of typically 40 fs at 2 W of output power. Due to the exceptional peak power and the integrated dispersion pre-compensation unit, it is an ideal tool for nonlinear applications like high harmonic imaging, broadband terahertz generation, and nonlinear wafer inspection.

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Green Laser to Deliver Stability

Ampliconix Oy
The AMPX-PICO-532 picosecond green fiber laser, developed with patented technology, is designed to break new ground in time and spectral resolution flavored by versatile OEM integration and elegant control.

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Compact Configurable Photon Laser

ProPhotonix Ltd.
The Photon laser is a compact, high-performance module available in wavelengths from 375 to 830 nm and power levels from 0.9 to 85 mW. It features line-generating, elliptical, or circular beams, and offers precise, repeatable results in industrial, medical, and scientific applications.

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Featured Video



Optica Making Changes, IPG out of Russia

In the first episode of Photonics Spectra Now we speak with the president of Optica to see how they're reacting to the sudden departure of their CEO, IPG cuts all ties with Russia, and a new study from Howard University could change the way scientists search for a cure for Alzheimer's disease. For more on these stories, and the latest in news in photonics, go to [photonics.com](#)

[Watch Now](#)



More News

[Optica to Put Procedural Changes in Place Following Funding Investigation](#)

[Soitec-Led Project Targets High-Frequency Semiconductors](#)

[Project DIPOOL Yields Updated Laser Blanking System](#)

[Quantum Effect Generates Different View of Alzheimer's](#)



Latest Webinars



Understanding Commercial Off The Shelf (COTS) Lens Tolerances

Tue, Sep 17, 2024 1:00 PM - 2:00 PM EDT
The technical data sheet, the most basic form of communication about lens specification in the industry, should provide an objective and uniform key to helping buyers understand the tolerances surrounding the key optical parameters that are provided about a lens. This webinar focuses on ISO tolerances and what questions an end user needs to ask the manufacturer about tolerances after manufacturing and delivering a lens. Individuals need to know what they are buying to be sure the lens and associated tolerances once delivered will meet overall system requirements. Theoretical data sheets do not provide what will truly be received. Being an educated consumer upfront during the lens selection process will ensure the lens meets individual requirements. Sponsored by Schneider Optics.

[Register Now](#)



How Motion Control Enables Modern Datacom Technologies

Thu, Sep 19, 2024 10:00 AM - 11:00 AM EDT
With the explosive growth of applications like AI and high-performance computing, modern data centers must find ways to support an exponentially rising demand for transferring massive amounts of data. Various cutting-edge technologies are key to keeping pace with this demand, and none is more foundational to modern data centers than optical transceivers. In this webinar, Justin Bressi of Aerotech explores macro trends pushing relentless innovation in this space and technologies enabling the next generation of optical transceivers, including silicon photonics, PICs, and co-packaged optics (CPO). He covers common precision alignment-related challenges encountered when manufacturing and testing these optical devices, as well as innovative methods and technologies for overcoming these challenges.

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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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