

This Week in PHOTONICS



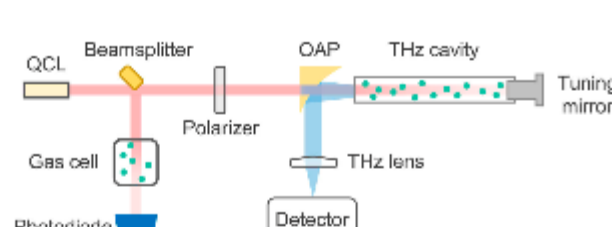
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Top Stories

Compact THz Laser Produces 120 Frequencies — With Room to Shrink

Researchers at Harvard have taken a step toward bringing terahertz frequencies out of their hard-to-reach region of the electromagnetic spectrum and into everyday applications. A team demonstrated a terahertz laser that is compact, operates at room temperature, and can produce 120 individual frequencies spanning the 0.25- to 1.3-THz range, far broader than previous terahertz sources.



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Startup Integrates Research-Grade Brain Imaging into Wearable Cap

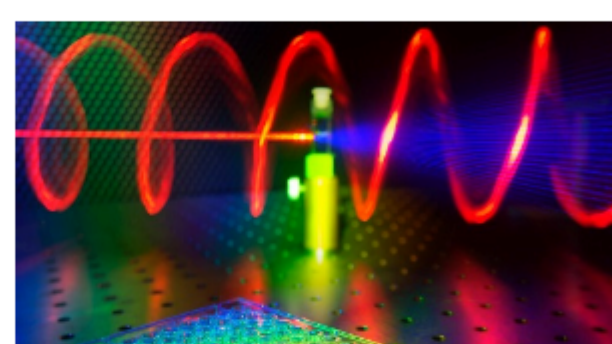
Neurotechnology company Kernel has developed a wearable headset device for brain measurement. The device, called Kernel Flow, is based on time-domain functional near-infrared spectroscopy (TD-fNIRS) — considered the gold standard for noninvasive optical brain imaging devices.



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Semiconductors Manipulate Light for Drug Molecule Characterization

A photonic effect in semiconducting helical particles, discovered through a collaboration between the University of Bath and the University of Michigan, could facilitate the use of robotic chemistry to speed the development and screening of pharmaceutical drugs.



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Featured Products



TRAP-IT™ Beam Dumps Liquid-cooled

Kentek Corp.
TRAP-IT™ Laser Beam
Dumps Liquid-cooled models

are designed to dissipate incoming laser power via heat dissipation. Place these control measures in a position along the optical beam path to provide a final beam stop. Contact a Kentek representative to discuss your laser application.

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WGF™ Infrared (IR) Polarizing Camera Filter

Asahi Kasei Corp.

WGF™ IR polarizing camera filter is the world's only polarization filter with a wide range of polarization performance. It can be used in the near-infrared rays, even in a wavelength range above 1,000 nm. It has had extensive records of success in various inspections and imaging. It sure provides a solution for your application.

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Upcoming Webinars



Photon Counting for Low-Light Applications: SiPM, SPAD, SNSPD, PMT, TES, and Photon-Resolving Camera Technologies

Wed, Feb 16, 2022 1:00 PM - 2:00 PM EST

This webinar overviews six types of single-photon photodetectors for low-light conditions: photomultiplier tubes (PMTs), single-photon avalanche photodiodes (SPADs), silicon photomultipliers (SiPMs), superconducting nanowire single-photon detectors (SNSPDs), superconducting transition edge sensor (TES), and photon-resolving cameras. All of these detector technologies are becoming more popular as developers and suppliers aim toward satisfying the increasing demand for 'modern' photonic applications, including quantum computing, lidar, dark matter detection, and more. Presented by Hamamatsu Corporation.

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