

This Week in PHOTONICS

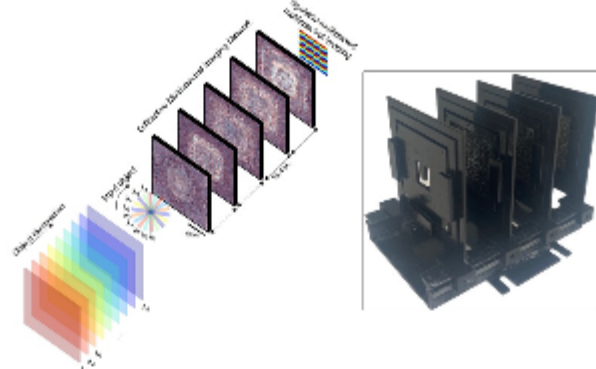


TELEPS
The Advantage of High Spatial Resolution in Thermal Imaging
Free Webinar May 3rd Register here!

:: Top Stories

Diffraction Optical Network Enables Snapshot Multispectral Imaging

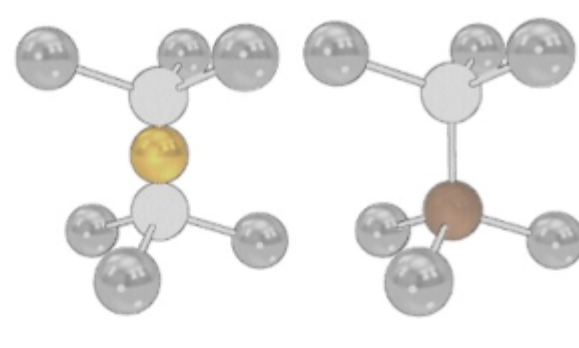
UCLA researchers led by Aydogan Ozcan and Mona Jarrahi developed a multispectral imaging technology capable of turning a monochrome sensor into a multispectral one. Rather than the traditional absorptive filters used for multispectral imaging, the technology uses a diffractive optical network to form 16 unique spectral bands periodically repeating at the output image field of view to form a virtual multispectral pixel array.



[Read Article](#)

Amazon Web Services Partners with Element Six on Diamonds for Quantum Networking

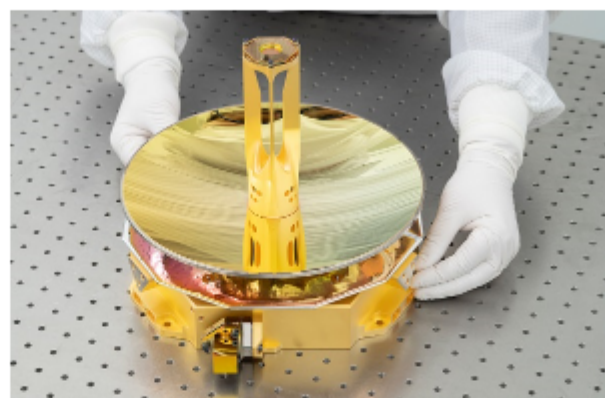
Amazon Web Services is partnering with synthetic diamonds manufacturer Element Six to explore ways to develop and improve synthetic diamonds for quantum networking. The collaboration aims to develop a scalable synthetic diamond solution consistent with efficient photon-spin interaction and control, which could be used to advance the development of quantum technologies.



[Read Article](#)

Laser Altimeter Among Instruments to Help Explore Jupiter's Moons

The European Space Agency is set to launch its Jupiter Icy Moons Explorer (JUICE) mission this week, which aims to explore Jupiter and its moons. On board the spacecraft will be the GALA measuring instrument, which will use laser pulses to measure the surface of the Earth-like moon Ganymede.



[Read Article](#)

Now Offers IBS Coatings

:: Featured Products & Services



[HyperFine Brillouin Spectrometer](#)

LightMachinery Inc.

The great challenge with Brillouin spectroscopy is that the scattered signal from the un-shifted wavelength of the laser can overwhelm the small Brillouin shifted return signal. LightMachinery has combined its leading-edge HyperFine spectrometer with a very narrow band tunable filter to suppress the bright un-shifted laser frequency.

[Visit Website](#)

[Request Info](#)



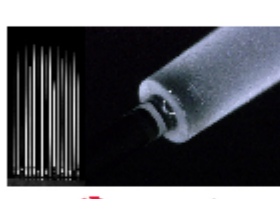
[Oriol® Sol3A™ Solar Simulators](#)

MKS/Newport

Oriol® Sol3A™ solar simulators use a single lamp design to meet Class A requirements for not one or two, but all three performance criteria without compromising their 1 SUN output power. Sol3A solar simulators are certified to Class AAA for IEC, JIS, and ASTM standards, for illuminating areas from 2 x 2 inch up...

[Visit Website](#)

[Request Info](#)



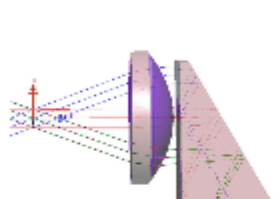
[CO₂ Laser Glass-Processing](#)

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.

[Visit Website](#)

[Request Info](#)



[CODE V & LightTools Optical Design Software](#)

Synopsys Inc., Optical Solutions Group

Interoperability features between CODE V® and LightTools® enable designers to easily simulate optical systems that contain imaging and non-imaging components with unparalleled speed and accuracy, from augmented reality headsets and head-up displays to smartphone optics and electro-optical systems.

[Visit Website](#)

[Request Info](#)

Detect anomalies: fast, easy, cost-effective

iDS NCT
#idshasvision

EDISON
Design Manufacture Service

Shortwave Infra, Broadband Spectrum Solution Provider

State-of-the-Art of Customized Service and Simulation

:: More News

[Optical Internetworking Forum Establishes Co-Packaging Standard](#) [Read Article](#)

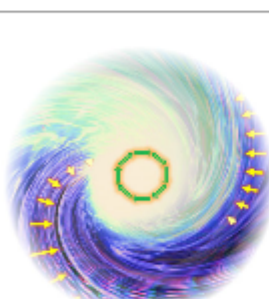
[Optogenetic Light Source Transmits Information Between Neurons](#) [Read Article](#)

[Silicon Photonics Platform Enables Next-Generation Quantum Devices](#) [Read Article](#)

[Mojo Vision Raises \\$22.4M to Bring Micro-LED Tech to Market](#) [Read Article](#)

[Photonis Adds Remote Detection Capability with Telops Acquisition](#) [Read Article](#)

:: Upcoming Webinars

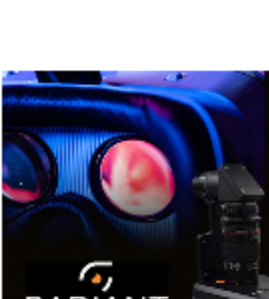


Optical Vortices and Their Interactions

Tue, Apr 25, 2023 10:00 AM - 11:00 AM EDT

David Andrews, Ph.D., of the University of East Anglia provides a broad introduction to optical vortices, concisely explaining the key experimental methods and theory. He also shares the principles that determine the unusual features of optical vortex interactions with matter. At the quantum level, simple symmetry principles explain a range of novel effects, while in the broader fields of singular optics and structured light, topology is more relevant. Some of the latest studies reveal especially striking phenomena at the focal point of vortex beams. Despite optical vortices' simple basis, the field is one in which wave optics, quantum theory, and symmetry can all reveal their distinctive effects in straightforward experiments.

[Register Now](#)



Addressing the Measurement Challenges of XR Device Optics: Displays, Lenses, and Waveguides

Thu, May 4, 2023 1:00 PM - 2:00 PM EDT

The pace of innovation in AR/VR/MR, collectively XR, devices continues to yield new technologies, optical approaches, and device configurations. To keep up, designers and manufacturers need to be able to meet an expanding range of quality measurement and inspection demands at both the component and device level. Mike Caputo of Radiant Vision Systems covers the current landscape of XR optical metrology needs and shares flexible and cost-effective approaches to measure XR devices in the lab and in production. Presented by Radiant Vision Systems.

[Register Now](#)



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](#).

