



## Monthly Newsletter

Monthly newsletter from the editors of Photonics Spectra, with features, popular topics, new products, and what's coming in the next issue. [Photonics.com/subscribe](https://www.photonics.com/subscribe).



### A Photonics Production Ramp-Up Prompts Reprioritization in Workforce Development

Both in the U.S. and overseas, semiconductor manufacturers are ramping up the production of devices that integrate photonics technologies. Workforce development and training initiatives aim to ensure that these device manufacturers have a sizeable pool of talent from which to identify the most qualified workers. But the technology is advancing faster than

the current talent pipeline can supply workers with the requisite skill sets. [Read Article](#)



### Optimizing the Alignment: CO<sub>2</sub> Laser and Scan Head Integration

The integration of CO<sub>2</sub> lasers and galvanometer-based scan heads presents technical challenges. Optimizing alignment parameters holds the key to maximizing efficiency.

[Read Article](#)



### Out of the Lab and into the Line, Raman Rises for Process Analytics

Raman spectroscopy continues to gain favor as a powerful process analytical technology asset in industrial sectors.

[Read Article](#)



## Featured Products & Services



### [LIGHT: Introduction to Optics and Photonics, Second Edition](#)

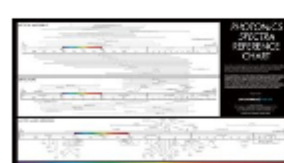
#### Photonics Media

Offering a comprehensive treatment of the subject as well as key applications, and

employing minimal math, LIGHT: Introduction to Optics and Photonics was written with readers in mind.

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### [Photonics Spectra Reference Chart](#)

#### Photonics Media

This full-color, 29.5 × 20.5-inch poster of the photonics spectrum displays the major commercial laser lines, detectors, and optical materials in the ultraviolet to the far-infrared and beyond. The convenient format makes it easy to quickly find the information you need.

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



## In Case You Missed It

### [Hamamatsu Photonics Selected for Quantum Computing Project](#)

As part of a New Energy and Industrial Technology Development Organization (NEDO, Japan) project aiming to accelerate the development of quantum compute technology, Hamamatsu Photonics has been selected to develop an ultra-high-speed camera, a high-resolution, high-sensitivity camera, and a high-resolution spatial light modulator. [Read Article](#)

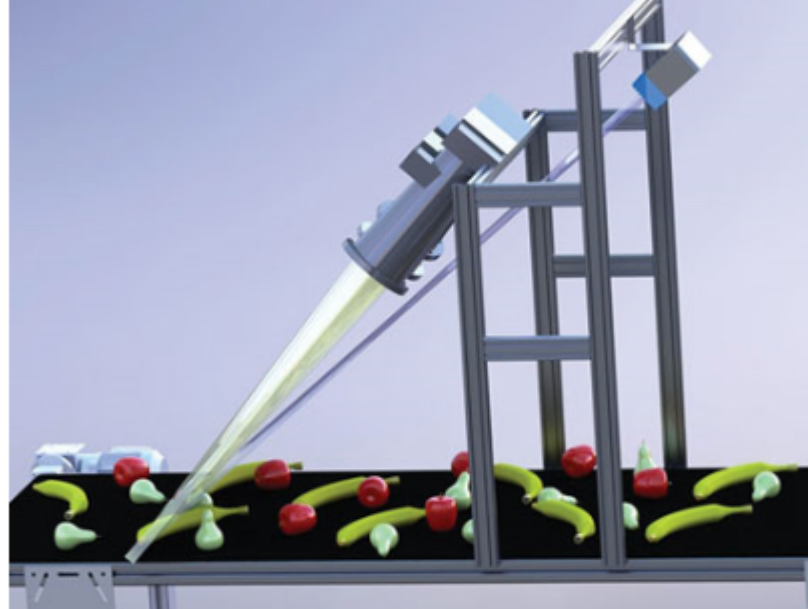
### [Hypervision and imec Collaborate on Hyperspectral Imaging for Surgery](#)

Hypervision, a spin-out company from King's College London that aims to advance computer-assisted tissue analysis for improved surgical precision and patient safety, has signed a strategic development agreement with imec. The collaboration targets the co-development of scalable technologies tailored for surgical applications, as the company works to scale its on-chip hyperspectral imaging and real-time AI analytics. [Read Article](#)

### [NIST Awards Contract to Quantum Computing Inc.](#)

Quantum Computing Inc. (QCi), an integrated photonics and quantum optics technology company, has received a contract by the National Institute of Standards and Technology (NIST) for the design and fabrication of thin-film lithium niobate (TFLN) PICs. The company also reported its receipt of a chip order from an unnamed Fortune 500 science and technology company, which QCi said is involved in defense, intelligence, civil, and commercial markets. [Read Article](#)

## Latest Webinars



### Optimization of LED Illumination for Hyperspectral Imaging Applications

#### On-Demand

This webinar introduces key principles of inline hyperspectral imaging and focuses on the often-overlooked design and integration of illumination. Attendees will learn how to optimize system throughput, sensitivity, and spectral accuracy by properly matching illumination performance to the capabilities of their spectral imaging cameras. We will compare traditional broadband sources, such as tungsten-halogen lamps, to modern solid-state LED systems—evaluating factors such as spectral coverage, uniformity, angular distribution, thermal stability, and cooling techniques. Whether you are developing new HSI camera systems or integrating spectral imaging into existing automation platforms, this webinar will offer practical insight into achieving better results through optimized, application-

specific illumination strategies. Hyperspectral imaging (HSI) is revolutionizing industries like food processing, materials recycling, and pharmaceuticals by enabling high-speed, non-contact identification of product characteristics. Yet, one of the most underestimated—and absolutely critical—determinants of overall system performance is the illuminator. This webinar will reveal how optimized, performance-driven LED illumination strategies can dramatically improve results, unlock new capabilities, and give your solutions a competitive edge in the marketplace. Presented by Innovation In Optics, Inc.

[Register Now](#)

## Next Issue:

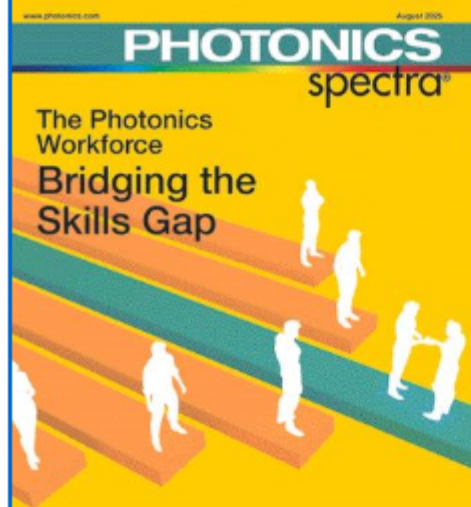
### Features

Aspheric Lenses, Lab-on-a-Chip Systems Design, Optical Metrology

Photonics Media is currently seeking technical feature articles on a variety of topics for publication in our magazine

*Photonics Spectra*. Please submit an informal 100-word abstract to Jake Saltzman, Senior Editor, at [jake.saltzman@photonics.com](mailto:jake.saltzman@photonics.com), or use our online submission form [www.photonics.com/submitfeature.aspx](https://www.photonics.com/submitfeature.aspx).

### About Photonics Spectra



Since 1967, *Photonics Spectra* magazine has defined the science and industry of photonics, providing both technical and practical information for every aspect of the global industry and promoting an international dialogue among the engineers, scientists and end users who develop, commercialize and buy photonics products.

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