

This Week in PHOTONICS



Active Thermography for panel paintings Inspection



Free Webinar 2022, Nov. 2 Register here!

Top Stories

VISION 2022 Hosts 6500, Celebrates Industry Innovation

The 30th iteration of the VISION Show hosted over 6500 visitors from 60 countries, as the machine vision industry convened in Stuttgart, Germany, Oct. 4-6. AI-based visual inspection company Kitov.ai earned the VISION Award 2022 for its CAD2SCAN software solution.

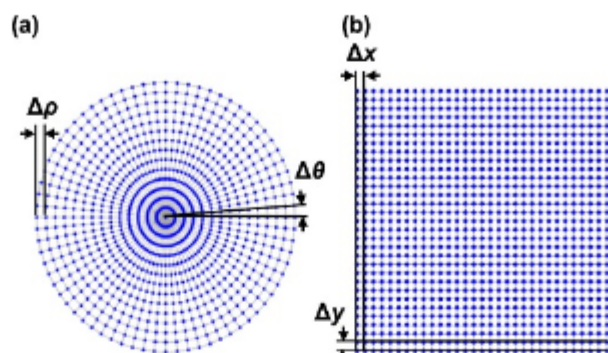
[Read Article](#)



Tool Path Optimization Bolsters Precision Machining of Freeforms

Researchers from Keio University developed a tool path generation method for driving an independently controlled fast tool servo (FTS) for freeform surface machining. Without necessity of trial and error, the method enabled rapid manufacturing of high-precision freeform optics for various products.

[Read Article](#)



Optatec Returns to Frankfurt for 15th Iteration

Optatec, the international trade fair for optical technologies, components, and systems, returns to Messe Frankfurt Oct. 18-20. Set for its 15th iteration in 2022, the event retains its focus on optoelectronics, machine vision, optics, laser components, fiber optics, and manufacturing.

[Read Article](#)



Featured Products & Services



[SYNOPTICS Now Offers IBS Coatings](#)

Northrop Grumman Synoptics

Quasi-Rugate thin film designs are optimized for high-power laser applications for ultra-fast through CW applications across the wavelength range of 355 nm to 2200 nm. Each design has a unique refractive index profile specifically tuned to give optimal performance for our customer's applications. Quasi-Rugate design structures have the highest demonstrated Laser Damage Thresholds of any Ion Beam Sputtered films.

[Visit Website](#)

[Request Info](#)



[New! Extended Visible-InGaAs PSDs](#)

Advanced Photonix

Advanced Photonix's high-sensitivity, high-accuracy, 2 mm diameter Position-Sensing Detectors feature spectral response from the visible to the near & short-wave infrared. The innovative APX-PSD-XVInG-3.1 is a low-noise PSD with sensitivity from 400 nm to 1700 nm & high-position detection accuracy.

[Visit Website](#)

[Request Info](#)



More News

[Spectroscopy and Machine Learning Focus Lens on Far Reaches of the Universe](#) [Read Article](#)

[Laser-Based Silicon Crystallization Improves MEMS Sensor Performance](#) [Read Article](#)

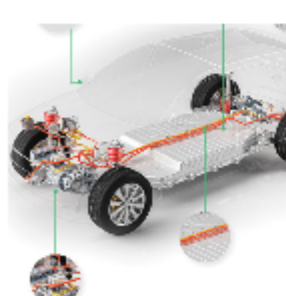
[3D-Printed Micro-Optic Enables Vortex Bessel Beam Generation](#) [Read Article](#)

[Machine Learning-Based Algorithm Reduces Drift in Fiber Sensors](#) [Read Article](#)

[Lumotive and Gpixel Unveil Lidar Reference Design Platform](#) [Read Article](#)



Upcoming Webinars



Dynamic Beam Lasers: Introducing New Parameters for Laser Welding

Thu, Oct 20, 2022 10:00 AM - 11:00 AM EDT

Dr. Asaf Nissenbaum shares new parameters for the Dynamic Beam Laser created by Civan Lasers. The laser's unique power distribution provides complete control of the melt pool and keyhole which greatly reduces spatter, hot cracks, and porosity. It also provides the opportunities for laser metal processing applications by increasing production speed, volume, and their capabilities. The Dynamic Beam Laser can be quickly programmed to move seamlessly between different workpieces and processes. This ability maximizes each machine's output. Presented by Civan Lasers.

[Register Now](#)



Harnessing Photons for Bond-Selective Imaging, Neuromodulation, and the Killing of Superbugs

Tue, Nov 1, 2022 10:00 AM - 11:00 AM EDT

Chemical microscopy utilizing fingerprint vibrational spectroscopic signals opens a new window to visualize the orchestra of molecules and biological structures inside living systems. Dr. Ji-Xin Cheng, professor at Boston University, and his research team have recently started to harness photons to modulate the behavior of cells, including the photoacoustic modulation of neurons at ultrahigh spatial precision and photolysis of intrinsic chromophores to eradicate drug-resistant bacteria.

[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](#).



We respect your time and privacy. You are receiving this email because you are a Photonics Media subscriber, and/or a member of our website, Photonics.com. You may use the links below to manage your subscriptions or contact us.

Questions: info@photonics.com

[Unsubscribe](#) | [Subscribe](#) | [Subscriptions](#) | [Privacy Policy](#) | [Terms and Conditions of Use](#)

Photonics Media, 100 West St., PO Box 4949, Pittsfield, MA 01202-4949

© 1996 - 2022 Laurin Publishing. All rights reserved. Photonics.com is Registered with the U.S. Patent & Trademark Office. Reproduction in whole or in part without permission is prohibited.