

This Week in PHOTONICS



.: Top Stories

Lockheed Martin Achieves First Light on Laser Defense System

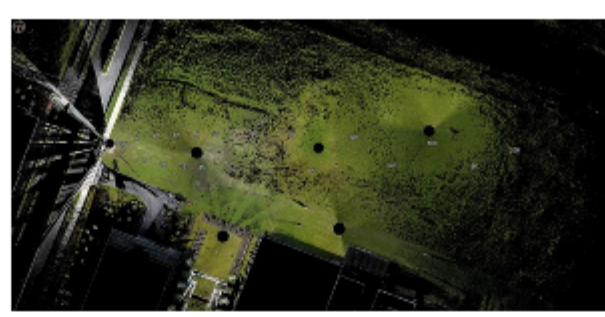
Lockheed Martin achieved first light from the Directed Energy Interceptor for Maneuver Short-Range Air Defense System (DEIMOS), verifying the beam quality of its 50-kW laser architecture developed as part of the U.S. Army's modernization strategy. The laser weapon system can be integrated into the Stryker combat vehicle to deliver robust directed energy capability to the U.S. Army's challenging Maneuver Short-Range Air Defense (M-SHORAD) mission.



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Research Project Seeks to Standardize Lidar Tests

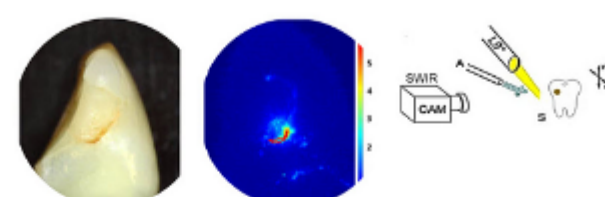
A national group formed by Paul McManamon of Exciting Technology, in conjunction with SPIE, is working to develop standardized tests to evaluate lidar technologies. In a recent paper, the team reported the findings of the first-year tests and a briefing outline of the larger three-year plan.



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Imaging Modalities Pair to Help Practitioners Discern Tooth Decay

To improve dental health, researchers at the University of California, San Francisco evaluated optical imaging techniques for their efficacy in the identification of secondary tooth decay, which can occur even if a tooth has already been filled. The researchers compared two techniques — (SWIR)radiation reflectance and thermal imaging — with measurements obtained with OCT and micro-computed tomography (MicroCT).



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Intelligent Laser Systems (ILS Series)

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Exail's (formerly ixblue) new generation of agile and Intelligent Laser Systems (ILS Series) offers a precise control of the laser amplitude, phase, and absolute frequency with fast tunability. They are turnkey frequency-stabilized laser systems for Quantum Technologies and laser-cooled atoms.

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A straightforward guide, offering clear, real world explanations of laser safety elements and the necessary background materials for the industrial laser environment.

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Sony STARVIS IMX462 GigE Camera

e-con Systems Inc.
RouteCAM_CU20 is a Full HD GigE camera based on the Sony STARVIS IMX462 sensor. It comes with the HDR feature in addition to having excellent NIR sensitivity. This ultra low light camera also houses an onboard image signal processor.

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Quantitative Stimulated Raman Scattering Microscopy: From Molecules to Animals
Tue, Feb 14, 2023 1:00 PM - 2:00 PM EST
Dan Fu, Ph.D., from the University of Washington highlights the capability of stimulated Raman scattering (SRS) microscopy in imaging various molecules in heterogeneous samples from simple mixtures to living cells and animals. He then shares the challenges in quantitative analysis with SRS imaging due to scattering, as well as potential solutions in leveraging water as an internal standard. With continuous improvement in imaging resolution, sensitivity, and specificity, SRS is poised to play an important role in biomedical imaging.

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Innovations in Interferometry: Fourier Transform Spectroscopy in the Palm of Your Hand
Wed, Feb 15, 2023 10:00 AM - 11:00 AM EST
Alex Barker of NIREOS shares how a common-path visible interferometer functions, as well as the counterintuitive ways in which it differs from a dispersion-based spectrometer. In a short time, these instruments have been used for a startling variety of spectroscopic experiments, such as time-resolved fluorescence, pump-probe spectroscopy, and stimulated Raman scattering. Using these examples, Barker demonstrates the advantages and disadvantages that common-path visible interferometers provide.

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