

This Week in PHOTONICS



Picometer Resolution

Powered by Virtually Imaged Phase Arrays (VIPAs), LightMachinery's HyperFine spectrometers offer single shot, picometer resolution laser spectrum analysis.



Top Stories

SPIE Summit Convenes Photonics Industry and Government Leaders

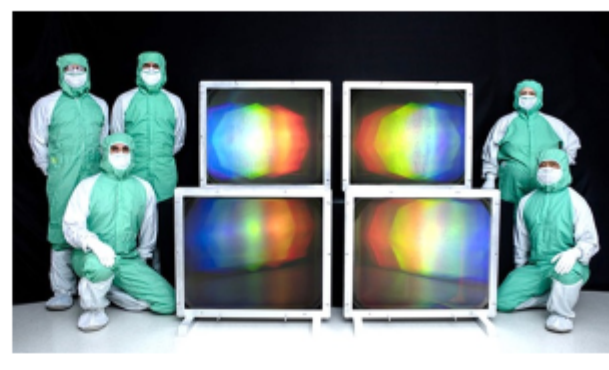
Photonics industry leaders converged with government officials and policymakers in Washington, D.C., on Sept. 21 to attend SPIE's inaugural Photonics Industry Summit. The summit kickstarted conversations about the shared goals and challenges of government and industry leaders — particularly with regard to the recently passed CHIPS and Science Act, workforce development, and the impact of export controls on international commerce.



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LLNL's Diffraction Gratings to Enable Most Powerful Laser

Researchers from Lawrence Livermore National Laboratory (LLNL) and their collaborators developed high-energy pulse compression gratings that will be installed in what will be the world's most powerful laser system. The laser system is designed to deliver up to 10 PW of peak power. One petawatt is about 1000x the capacity of the entire U.S. electrical grid.



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Quantum Cryptography Satellite Gets 2024 Launch Date

A consortium led by satellite telecommunications network provider SES SA will design, develop, launch, and operate a satellite system that will enable secure quantum key distribution based on free space optical communication technologies. During the EAGLE-1's operational phase, the satellite will allow early access to long-distance QKD to pave the way toward an EU constellation enabling ultrasecure data transmissions.



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Revopoint MINI: Blue Light 3D Scanner with 0.02-mm Precision
Revopoint International Ltd.
The MINI ultra-precise blue light 3D scanner can output models with a point distance of up to 0.05 mm and a single-frame precision of up to 0.02 mm. All of this is achieved with industrial-level professional calibration tools. Only one cable for power supply and data transmission, a 10-fps scan speed in Wi-Fi mode, and a weight of 160 g.

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Upcoming Webinars

Noncontact Optical-Based Metrology for Microlens Characterization
Wed, Oct 5, 2022 1:00 PM - 2:00 PM EDT
Since variety-of-consumer devices and industrial sensors, precision metrology control is critical for lens development, process optimization, and mass production. Roger Posusta of Bruker Nano Inc. discusses how Bruker's industry-leading white light interferometry (WLI) optical profilometers combine automation and on-the-fly analysis to enable truly comprehensive, high-throughput metrology and analysis for the development and production of even the most complex microlenses. Presented by Bruker.

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Ultrafast and Photon-Number-Resolving Superconducting Nanowire Detectors
Thu, Oct 6, 2022 10:00 AM - 11:00 AM EDT
The highest development of photonic quantum instrumentation lies in the technology of superconducting nanowire single-photon detectors (SNSPDs). Félix Bussi eres, Ph.D., of ID Quantique, explores recent advances in the technology of SNSPDs and the quantum applications they empower. Standard SNSPD designs can only detect the presence or absence of photons, and their speed is limited by their intrinsic recovery times. With innovations found in ID Quantique's commercially available ID281 Superconducting Nanowire Series, SNSPD users can count single photons more precisely and efficiently with precise photon-number resolution and with detection rates exceeding a billion counts per second. Bussi eres presents exciting new developments on how technology is progressing closer to scalable quantum computing and simulation and a realizable quantum internet. Presented by ID Quantique.

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