

Weekly News





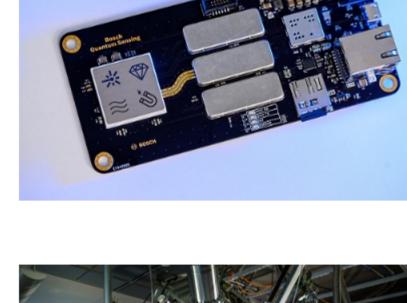
Impact American Semiconductor Developers

Export Controls from China Could

The escalating trade war between the U.S. and China could disrupt production for American semiconductor developers. The companies impacted by Beijing's new export controls, and

how the White House is responding. A breakthrough from the Capasso Group will have a lasting impact on imaging systems. Researchers from the University of Manchester are introducing a new class of reconfigurable intelligent surfaces with the power to shape terahertz and millimeter waves. A new technique from the University of Arizona gives a boost to AR/VR by increasing eye-tracking points from 12 to 4,000. The EU launches an initiative to support the development of photonic tech across Europe. And there's a new

unified front in optical fiber and connectivity solutions. Why officials from Lightera say their new brand will drive innovation through global expertise. Sponsored by Chroma Technology and LightPath Technologies. Watch Now



Bosch has established a joint venture aimed at commercializing quantum sensing with synthetic diamond

Diamond Developer Element Six

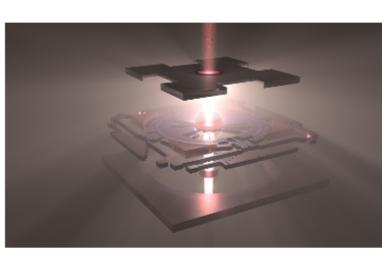
Bosch Launches Joint Venture with

producer Element Six. Called Bosch Quantum Sensing, the company will be based on the in-house start-up of the same name, which Bosch set up in 2022. Element Six, which has been a Bosch partner since 2023, will hold a 25% stake in the company. Read Article Maxwell Labs Collaborates to Test Laser-Based Cooling Tech



Minnesota-based startup Maxwell Labs has entered into a cooperative R&D partnership with Sandia National Laboratories and the University of New Mexico to

demonstrate laser-based photonic cooling for computer chips. The company is developing the technology to regulate the temperature of chips, significantly lower the power consumption, and increase the efficiency of conventional air Optical Sensor Simultaneously Measures Wavelength and Polarization

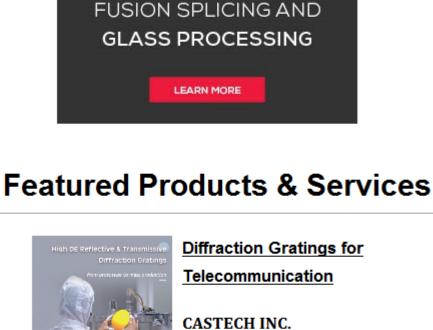


Engineering and Applied Sciences, in collaboration with Stanford University and the University of California, Berkeley, have developed an on-chip twisted moiré photonic crystal

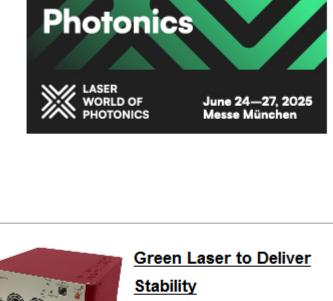
Researchers from the Harvard John A. Paulson School of

sensor that uses MEMS technology to control the gap and angle between the crystal layers in real time. The sensor can detect and collect detailed polarization and wavelength information simultaneously. Read Article Secure your ticket

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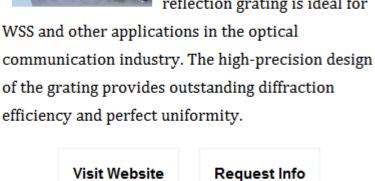
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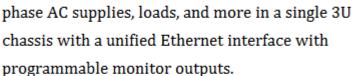
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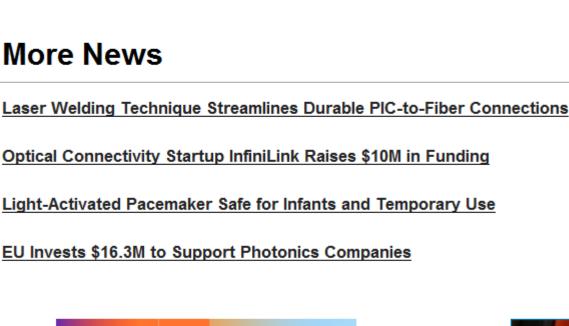
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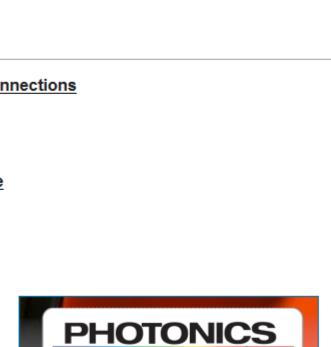
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this opportunity to learn how ProPhotonix's laser solutions can enhance your particle analysis applications across environmental, industrial, and biomedical sectors.

play a vital role in applications ranging from verifying the quality of the output in industrial manufacturing processes to detecting and quantifying airborne pollution and dust particles in environmental monitoring. In the biomedical field, laser-based systems are key to flow cytometry, where they are used to detect and characterize proteins on the surface of blood cells, measure cell size and shape, and support disease diagnostics. The webinar will also delve into how laser-based particle analysis is utilized to monitor dust concentrations in industrial environments, optimize milling processes, and aid in the development of new pharmaceuticals and food products. Don't miss Register Now

for particle analysis, often combined with complementary methods such as spectroscopy — many forms of which also

utilize semiconductor diode lasers. Together, these technologies

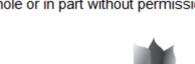
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