

# This Week in PHOTONICS



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## :: Top Stories

### ams OSRAM to Receive €300M in Funding to Drive Optoelectronic Semiconductor Tech

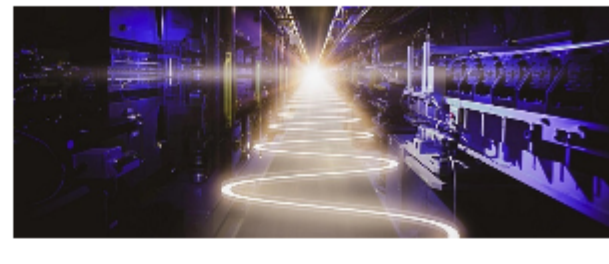
Austria-based ams OSRAM will receive more than €300 million (\$317.3 million) in funding over the next five years from Germany's Federal Ministry for Economic Affairs and Climate Action and the Free State of Bavaria. The Important Project of Common European Interest (IPCEI) funding will support the company in making its own investments in the R&D of innovative optoelectronic components at its Regensburg location, which is home to ams OSRAM's Osram Opto Semiconductors GmbH.



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### SLAC's Upgraded XFEL Registers 'First Light'

SLAC National Accelerator Laboratory reported that the Linac Coherent Light Source (LCLS) x-ray free-electron laser (XFEL) has produced its first x-rays following a \$1.1 billion upgrade. The improvements, more than 10 years in the making, allow the laser to fire up to a million x-ray flashes per second, which is 8000 times more than its predecessor. The generated, almost-continuous x-ray beam will be 10,000 times brighter than its predecessor on average.



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### Sentient, Edge Autonomy Collaborate for Maritime Search Demos

Sentient Vision Systems, a developer of passive modular optical sensors, has completed live demonstrations of its AI-enabled ViDAR (visual detection and ranging) payload deployed on unmanned aerial systems (UAS) provided by Edge Autonomy. The collaborators used Edge Autonomy's VXE30 UAS models to demonstrate capabilities for passive wide-area search for maritime operations.



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## :: Upcoming Webinars



### New Frontiers in Terahertz Technology

Wed, Oct 4, 2023 1:00 PM - 2:00 PM EDT

Although unique potentials of terahertz waves for chemical identification, material characterization, biological sensing, and medical imaging have been recognized for quite a while, the relatively poor performance, higher costs, and bulky nature of current terahertz systems continue to impede their deployment in field settings. In this presentation, Professor Mona Jarrahi describes some of her team's recent results developing fundamentally new terahertz electronic and optoelectronic components as well as imaging and spectrometry architectures to mitigate the performance limitations of existing terahertz systems. Her team's results pave the way for compact and low-cost terahertz sources, detectors, and spectrometers that could offer numerous opportunities such as, medical imaging and diagnostics, atmospheric sensing, pharmaceutical quality control, and security screening systems.

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### NXT Stop, Malibu: Fast and Easy AI Machine Vision

Tue, Oct 10, 2023 11:00 AM - 12:00 PM EDT

As the understanding of what applications AI in machine vision can help solve broadens, manufacturers must adjust their offerings to provide solutions for these new potential sectors. IDS is aware of the increasing interconnectivity of not only manufacturing, but of other industries and commercial spaces. These fields tend to require less precise synchronization of interconnected systems, but devices still need to be able to communicate a result fast to keep the system operating. With the newest platform under the family of NXT devices, the Malibu, IDS Imaging has this keenly in mind. Live streams of real-time images and results will improve applications such as cashier-less stores, loss prevention, and real-time football analysis. The new platform will also fit in industrial applications such as analyzing equipment wear, monitoring chemical reactions, and AI-assisted visual inspection to achieve a high degree of safety and quality. This webinar demonstrates the new NXT Malibu's capabilities and how it can help solve applications that need fast results from a secure edge-device. Presented by IDS Imaging Development Systems, Inc.

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