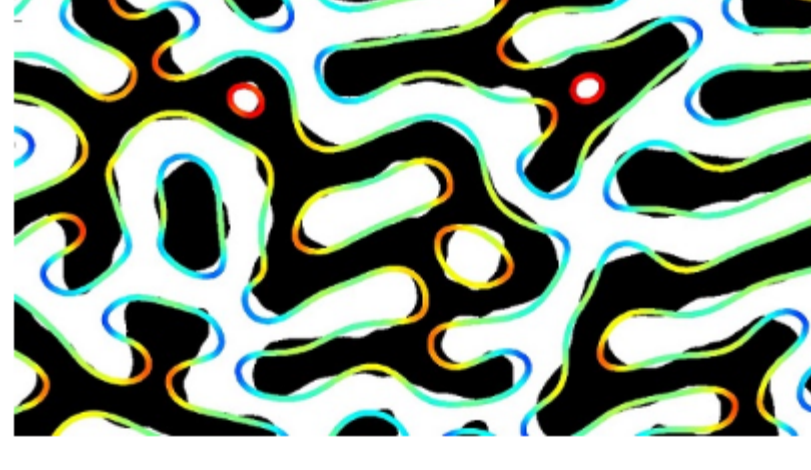




Weekly News



Ultrafast Laser Pulses Could Increase Data Storage Energy Efficiency

A recent discovery from the University of California, Davis, could enable faster and more efficient magnetic hard drives by using ultrafast laser pulses to process data. The findings could significantly reduce energy consumption for data centers.

[Read Article](#)

Deep Learning-Driven Terahertz System Captures Multispectral Images in Real Time

Researchers at UCLA have developed a focal plane array capable of supporting real-time multispectral terahertz video in 3D. According to the team, led by UCLA professors Mona Jarrahi and Aydogan Ozcan, this is the first time a terahertz imaging system has been able to achieve real-time

multispectral imaging with video capability while maintaining a high signal-to-noise ratio. [Read Article](#)

Enlightra and DESY Hamburg Develop Improved, Scalable Comb Lasers

Laser technology startup Enlightra has collaborated with DESY Hamburg to develop comb lasers that are more stable and efficient by design. The work demonstrated microresonators with programmable synthetic reflection, providing tailored injection feedback to the driving laser. The technology is a marked improvement compared to

conventional self-injection locking, and can be produced using standard lithographic production. [Read Article](#)

Featured Products & Services



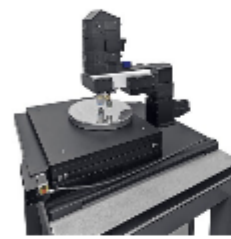
Gem - Solid-State Continuous-Wave Laser

Novanta Inc.

Air-cooled solid-state continuous-wave laser designed for easy integration into OEM instrumentation, delivering high power in a compact platform. Ideal for a range of applications from super resolution microscopy, Raman, holography through to semi-conduction inspection and particle counting.

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Raman Microscope

WITec GmbH

The alpha300 Semiconductor Edition from WITec is a

Raman microscope configured especially for semiconductor research and development. Allowing space for the Raman imaging of wafers on a bigger scale, the microscope features a large-area scanning stage that helps characterize chemical composition, crystal quality, strain, and doping in up to 300-mm (12 in.) wafers.

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More News

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[Optofluidic Device Tests for Blood Disorders at Point of Care](#)

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[PsiQuantum, Mitsubishi Partner to Develop Energy-Efficient Materials](#)

Latest Webinars

Dual-Comb Ranging for Industrial Applications

Tue, Feb 13, 2024 10:00 AM - 11:00 AM EST

Researchers developed a simplified variation of the dual-comb ranging (DCR) technique: two-photon dual-comb LiDAR, which allows data to be collected using time-tagging electronics. The switch from high-bandwidth digitization to time-tagging represents a significant reduction in data-tagger associated with DCR. Despite the simplifications made, these demonstrations show comparable measurement precision to the conventional technique. In this webinar, Hollie Wright, Ph.D., discusses the technique and explains the many advantages it

offers compared to conventional DCR. She shares results from various demonstrations including multi-target ranging and target pose sensing and shares as-yet unpublished results from demonstrations with non-cooperative targets. Finally, Wright discusses the outlook for the technique and future work plans.

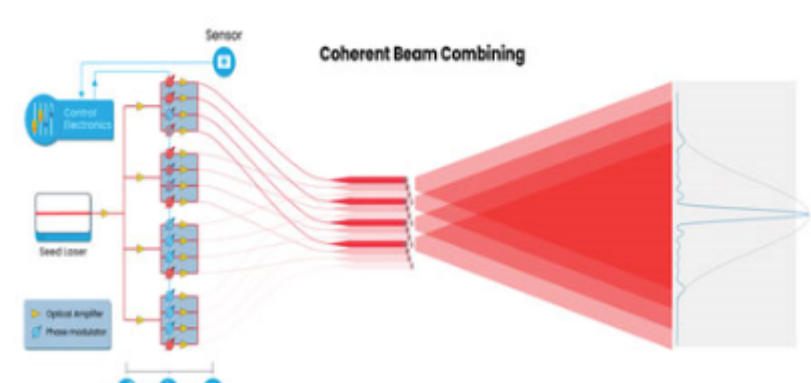
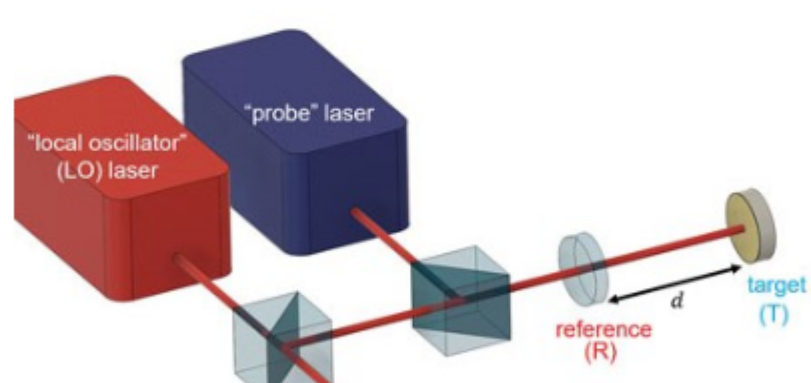
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From Theory to Practice: Coherent Beam Combining's Impact on Laser Technology

Thu, Feb 15, 2024 10:00 AM - 11:00 AM EST

This presentation shines a spotlight on the transformative laser technology known as coherent beam combining (CBC). While this technology has been known for decades, it only recently has been introduced into commercial applications, with Civan Lasers emerging as a leading player in the field. During this webinar, Eyal Shekel delves into the fundamental principles of CBC and explores its versatile configurations, which encompass fiber aperture and optical phased array techniques. He provides valuable insights into the latest developments in this field for laser technology enthusiasts or engineers seeking to harness the power of CBC. Presented by Civan Lasers.

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