

This Week in PHOTONICS

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.: Top Stories

Apple Joins Imec's 'Sustainable Semiconductor Technologies and Systems'

Apple Inc. has joined imec's Sustainable Semiconductor Technologies and Systems (SSTS) research program. The SSTS program is an initiative to bring together stakeholders across the integrated chip (IC) value chain to anticipate the environmental impact of choices made at chip technology's definition phase.

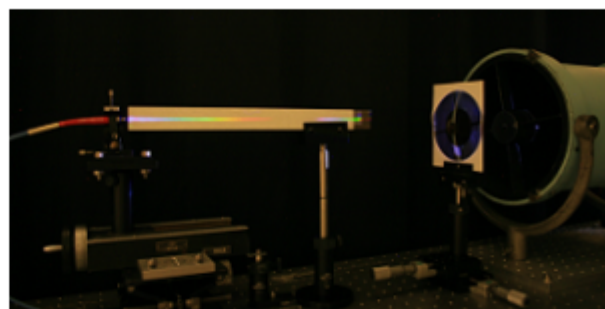
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Holographic Space Telescope Takes Aim at the Next 'Planet Earth'

To support the discovery of planets outside the solar system, scientists at Rensselaer Polytechnic Institute (RPI) created an experimental space telescope that can directly analyze the spectra of an exoplanet. The main component of the Dual Use Exoplanet Telescope (DUET) is a Fresnel hologram that can transform incident starlight directly into a spectrogram.

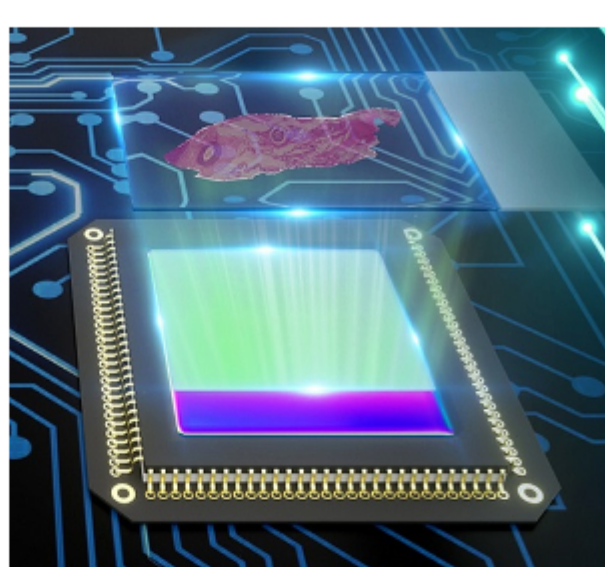
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Parallel Optical Processing Enables Highest Throughput Microscopy Imaging

A resolution-enhanced parallel-coded ptychography technique developed by researchers at the University of Connecticut has achieved the highest numerical aperture and throughput to date, compared to previous demonstrations of similar technology. The approach replaces the objective lens with a disorder-engineered surface.

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.: Featured Products



[pco.edge 10 bi CLHS - The Next Level sCMOS](#)

PCO-TECH Inc.

The pco.edge 10 bi CLHS is PCO's next level sCMOS camera with unprecedented imaging performance. Thanks to its back illuminated image sensor it comes with a quantum efficiency of up to 85% with broad spectrum out to NIR. The sensor incorporates microlenses and a full pixel height deep trench isolation for crosstalk suppression resulting in an excellent MTF.

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[Wide Beam Imager for SWIR Range](#)

Ophir, Photonics

Ophir WB-I SWIR is a compact, calibrated optical system for measuring size and power distribution of large and divergent beams of VCSELs and LEDs in the SWIR range (900 - 1700 nm). Images any beam shape (round, line, square, doughnut) too large for a camera sensor, with angle of incidence to 70 degrees.

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.: Upcoming Webinars

Dynamic Beam Lasers Are Opening New Applications for Materials Processing
 Tue, Nov 9, 2021 10:00 AM - 11:00 AM EST
 Dynamic Beam Lasers (DBLs) are fiber lasers based on Coherent Beam Combining (CBC) which open a new set of parameters to enable cutting, welding and additive manufacturing applications that were not previously possible. In this webinar, learn about DBL features and applications from Civan Lasers' CEO, Eyal Shekel, Ph.D. Presented by Civan Lasers.

[Register Now](#)

.: All Things Photonics

In this week's episode, **Moshe Safran**, CEO of RSIP Vision US, speaks on the intersection of computer vision, AI, and medical-guided robotics. Johns Hopkins University's **Russell Taylor** gives a macro look at surgical robotics — a field with implications for photoacoustic imaging, OCT, confocal microscopy, and other imaging modalities.

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