Thursday, March 24, 2022

This Week in PHOTONICS

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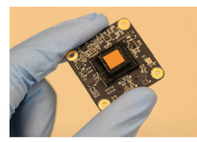
.: Top Stories

Lensless Camera Captures Cellular-Level 3D Details
Rice University researchers have tested a tiny lensless microscope called Bio-FlatScope, capable of producing high levels of detail in living samples. The team imaged plants, hydra, and, to a limited extent, a human.

Read Article



Tunable Nanophotonic Interface Simplifies PIC Integration
A chiral nanophotonic interface developed by a research team at the University of Chicago could make photonic integrated circuits (PICs) easier to integrate into mapping systems, biosensors, and other technologies. The interface provides a way for PICs to direct light at the nanoscale.

Read Article

Spectroscopy Method Measures Both Terahertz, Raman Fingerprint Regions
A Raman spectroscopy technique, called dual-detection impulsive vibrational spectroscopy (DIVS) by its developers at the University of Tokyo, allows two types of vibrational signals to be measured concurrently. DIVS enables broadband detection over the low-frequency, or terahertz, region and over the fingerprint region of the Raman spectrum at an ultrafast, real-time spectral rate of 24,000 spectra per second.

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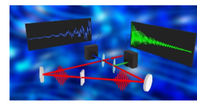

.: Featured Products

Highest LIDT for PW Laser Systems

LASEROPTIK GmbH
Reaching highest LIDT was demonstrated with LASEROPTIK's large mirrors for HAPLS, the most powerful petawatt laser ever built, part of ELI Beamlines. These results have now been published by a team from both organizations: "Large area ion beam sputtered dielectric ultrafast mirrors for petawatt laser beamlines". Applying their unique IBS machine, LASEROPTIK successfully coated dielectric mirrors for the beam transport system...

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LDC-3726 Laser Diode Controller

MKS/Newport
The LDC-3726 Laser Diode Controller combines a precision current source with a thermoelectric temperature controller. The integrated three range current source provides high stability output with maximum output currents of 100 mA/200 mA/500 mA. Multiple levels of laser diode protection include slow start, adjustable current limit and compliance voltage, intermittent contact protection, and output shorting relays.

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Luminar to Acquire Laser Manufacturer Freedom Photonics Read Article

MICLEDI to Collaborate with GlobalFoundries on MicroLED Displays Read Article

SWIR Microscope to Enable Imaging Through Blood, Soft Tissue Read Article

Committee Releases Draft of OCT Guidelines, Standards Read Article

Datalogic Acquires Pekat Vision Read Article

.: Upcoming Webinars

Adaptive Optics: From Design to Application
Wed, Mar 30, 2022 10:00 AM - 11:00 AM EDT
Adaptive optics (AO) is a technology originally used for removing the blurring effect of atmospheric turbulence on images in ground-based telescopes. Since then, it has been become invaluable in other fields, such as vision science and microscopy. For example, by correcting for blur due to the optics of the eye, AO has revolutionized ophthalmology by allowing diseases to be detected and monitored at the single-cell level, thus providing earlier diagnoses. Karen Hampson, Ph.D., of Oxford University overviews AO technology and its application considerations for astronomy, vision science, and microscopy.

Register Now

Adopting Deep Learning in Machine Vision: Scaling to Enterprise-Level Solutions
Wed, Apr 20, 2022 1:00 PM - 2:00 PM EDT
Enterprise-level manufacturing customers looking to leverage the power of deep learning and artificial intelligence to solve their most difficult quality inspection applications have unique needs. Quinn Killough of Landing AI offers best-in-class solutions for these challenging applications. These solutions include efficient data collection and model generation across global production networks, as well as how to communicate and deploy these systems in companies across diverse populations that include executives, engineers, and data scientists. Presented by Landing AI.

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