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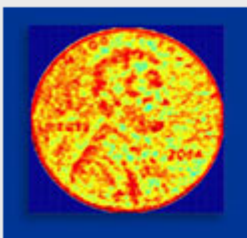
Thursday, April 9, 2015



This week on *Light Matters*:

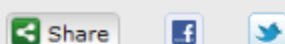
Is the CCD image sensor on its last leg? Get the facts and have your say.

Lidar Chip Offers Mobile 3-D Scanning



Researchers used the device to piece together a 3-D image of the front of a U.S. penny from half a meter away, with 15- μ m depth resolution and 50- μ m lateral resolution.

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Major Stakeholder Divests from Jenoptik; Shares Snapped up by New Investors

ECE Industrial Holdings GmbH has sold its approximately 10.48 percent stake in Jenoptik AG. The roughly 6 million shares were purchased by other investors March 31 at a price of €11.90 per share – for a total of more than €70 million.

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Headwall Partners with Ocean Spray on Spectral Imaging for Agriculture

The two companies will cooperate to test a new class of machine vision inspection capabilities for real-time assessment of product quality for many different types of agricultural processing applications.

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Featured Products



Fiber Optic Oxygen Sensors

SpectrEcology
Our oxygen sensors use the quenching of fluorescence by collision of molecular oxygen with a fluorophore that is trapped in an oxygen permeable sol gel or polymer. This technique is superior to electrodes in that O₂ is not consumed.

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MTF Measurement Systems

Image Science Ltd.
Image Science provides custom MTF systems for the Visible, SWIR, MWIR, LWIR and UV wavebands. Our systems combine high accuracy with fast measurement speed.

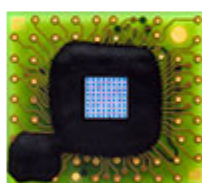
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Fiber Optic Switches

JGR Optics
JGR Optics' SX4 fiber optic switches are benchtop instruments ideal for manufacturing production testing. A single common input connects with multiple output channels.

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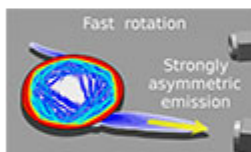
APDs for Rangefinders/LIDAR

First Sensor Inc.
For high-performance laser rangefinders and LIDAR systems, First Sensor offers the Series 9 avalanche photodiodes (APDs) with fast rise times and excellent responsivity in the 900 nm range.

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Reinvented Optical Gyroscope Smaller, More Sensitive



A new spin on optical gyroscope technology could allow the devices, which are crucial to satellite and rocket guidance, to increase in sensitivity while shrinking to about 10 μ m in size.

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NIR Hyperspectral Imaging Roots out Peanut Contamination

A team of researchers from Spain and France have adapted the technique to quantify peanut contamination in powdered foodstuffs such as wheat flour.

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Eurolaser Opens New Facility in Poland

Eurolaser GmbH has opened a branch office in Poland to address demand for CO₂ laser systems for large-format cutting.

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WHITE PAPER



Absorption / Transmission / Reflection Spectroscopy

Andor Technology Ltd., Corporate Headquarters

Ultraviolet Visible Near-Infrared (UV-Vis-NIR) spectroscopy is useful to characterize the absorption, transmission, and reflectivity of a variety of technologically important materials, such as pigments, coatings, windows, and filters. This more qualitative application usually requires recording at least a portion of the spectrum for characterization of the optical or electronic properties of materials.

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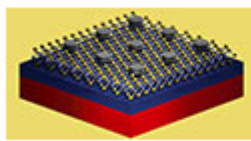
Elbit to Provide HMDs for Navy Helicopters

The program is part of an improved targeting system for helicopter weapon kits aboard the MH-60S Seahawk test aircraft. Elbit's Color Helmet Display and Tracking System (CHDTS) is meant to help pilots see color flight instrument symbols on their helmet-mounted display (HMD) modules in both day and night.

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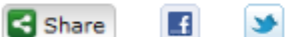


Plasmonic Nanodiscs Boost 2-D Material's Light Emission



A periodic array of 130-nm silver discs on top of a sheet of MoS₂ enhances the semiconductor's light emission as much as 12 times. The use of nanostructures instead of a continuous film allows the material to retain its flexibility.

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Hamilton Thorne Acquires Reproductive Imaging Product Line

Oosight provides high-contrast, live images of unfertilized eggs (oocytes), capturing quantitative data of important structures using a patented, noninvasive, polarized-light technique developed by the Marine Biological Laboratory and commercialized by CRI as LC-PolScope technology.

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Industry Events

SPIE DSS 2015 - April 20-24, 2015 · Baltimore Convention Center

SPIE.DSS The weeklong event features SPIE's Sensing Technology + Applications and Defense + Security symposia.

SPIE Defense + Security focuses on IR systems; lidar and radar; laser technology; image processing; data analysis; intelligence, surveillance and reconnaissance systems (ISR); display technologies; unmanned systems and robots; CBRNE; cyber sensing and security; biometric technology; law enforcement; energy harvesting; and more.

SPIE Sensing Technology + Applications focuses on commercial sensing and imaging topics and further development of affordable technology options with civilian applications.

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THE PULSE OF THE INDUSTRY



International Light - ILT5000 Research Radiometer
Short video highlighting all of the improvements on the industry-standard ILT1700 including rapid measurements (1-100hz), broader dynamic range (100fA to 1mA), extensive supporting software apps, and built-in wireless, data storage, rechargeable batteries!

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