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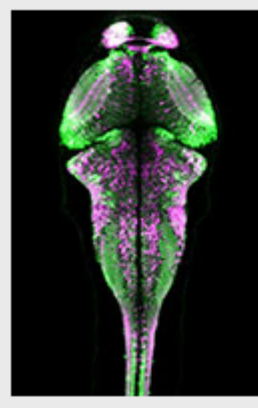
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PHOTONICS.com

Thursday, February 19, 2015

Fluorescent Label Aids Whole-Brain Imaging In Vivo



Developed at the Howard Hughes Medical Institute, the label frees scientists from the need to focus a microscope on the right cells at the right time to observe neuronal activity.

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Newport Touts Record Sales Amid Acquisitions

"Our sales and orders in the fourth quarter of 2014 increased sequentially in each of the key end markets we serve, and we received a number of significant orders for OEM programs, including a \$25.7 million order for lasers used in surgical applications," said Newport CEO Robert J. Phillippy.

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Flir Marks Successful Foray Into Consumer Market

"During the year we introduced several new products that revolutionized our industry, opened up large consumer markets, and expanded the accessibility of our advanced sensor technologies to a much broader set of people," said CEO Andy Teich, referring to the Flir One smartphone thermal camera and other products.

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Featured Products



6300 Series ComboSource

Arroyo Instruments

The new 6300 Series ComboSource Laser Diode Controller offers the best of both worlds: a high accuracy, low noise laser driver and a powerful 60W temperature controller, all in one compact instrument.

[More info >>](#)



High Resolution Lenses

Universe Kogaku (America)

Universe Kogaku's new high resolution lenses with locking focus help maintain vision system calibration. These VX Series lenses are well suited for rugged conditions in machine vision, inspection, and vibration sensitive applications.

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Taper Manufacturing Station

3SAE Technologies

The production-ready Taper Manufacturing Station (TMS) with optional cleaving package is designed for use in the manufacturing of optical fiber tapers, bundles and couplers.

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Optical Wedges

A.R.W. Optical Corp

A.R.W. Optical manufactures custom, standard and OEM optical wedges for the UV to IR region. Provides rapid prototyping through volume production for all industries.

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Laser Frequency Comb Boosts Solar Telescope Accuracy



Laser frequency combs can help telescopes achieve unprecedented accuracy in spectral measurements, and may someday aid detection of Earth-sized exoplanets.

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Lens Arrays Could Enable Rooftop Solar Concentrators

Tiny solar cells sandwiched between lens arrays could bring the promise of concentrator photovoltaics (CPVs) down to a consumer scale.

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Earnings Jump at Hamilton Thorne

"As part of an ongoing strategy to expand our product offerings, we are expecting to increase our spending on research and development projects," said CEO David Wolf. "We are also actively seeking to accelerate our growth through the potential acquisition of additional products or companies."

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Didn't make it to Photonics West? We've got the scoop from San Francisco this week on the industry's **premier weekly newscast**.

ZnO Nanowires Create Ultrasensitive UV Smoke Detector

A new low-temperature nanowire growth process can create ultrasensitive UV smoke detectors directly on a microchip.

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Film Enables Touch Displays That Respond to Bending, Heat



Developed by a team from the Fraunhofer Institute for Silicate Research (ISC), the film is based on piezoelectric printing pastes that render flexible polymer films sensitive to deformation. Electronic pressure sensors can then be printed on them.

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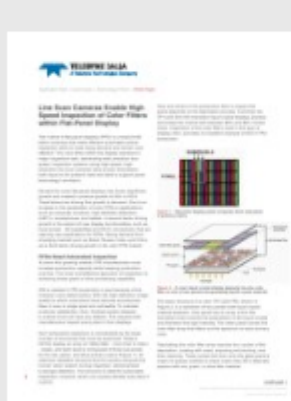
Northrop Grumman Supplies Laser Mine Detection Systems to Navy

Mounted on the MH-60S helicopter, the ALMDS detects and geo-locates mine-like objects over sea lanes using pulsed lasers and streak tube receivers for 3-D imaging.

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WHITE PAPER



Line Scan Cameras Enable High Speed Inspection of Color Filters Within Flat-Panel Display

Teledyne DALSA, Machine Vision OEM Components

The market of flat-panel displays (FPD) is a nearly \$100 billion business that needs efficient automated optical inspection (AOI) to meet rising demand and remain cost effective. The color filters within the display represent a major inspection task, demanding both precision and speed. Inspection systems using high-speed, high-resolution line scan cameras have proven themselves both equal to the present need and able to support panel technology's evolution.

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WEBINAR



Laser-Based Machine Vision: Lidar and 3-D Scanning

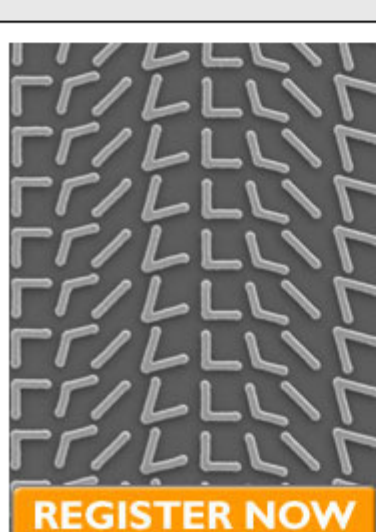
Wed, Feb 25, 2015 1:00 PM - 2:00 PM EST

FREE WEBINAR

Lidar has become an increasingly useful tool in mapping and surveying applications over the past decade. Many perceived limitations of lidar have recently been overcome with a combination of hardware and software technologies originally developed for space applications and recently further evolved for terrestrial applications. Specifically, advances in measurement range, durability and obscuration penetration have been applied to a new lidar product for harsh environments where visibility is often obscured by dust, fog or rain.

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WEBINAR



Flat Optics based on Metasurfaces: Molding Wavefronts and Surface Waves

Thu, Feb 26, 2015 1:00 PM - 2:00 PM EST

FREE WEBINAR



Federico Capasso

Metasurfaces based on subwavelength patterning have major potential for realizing arbitrary control of the wavefront of diffracted light by achieving local control of the phase amplitude and polarization. We discuss novel devices based on this technique: a salient feature is the ability to create, often with a single digital mask, an arbitrary analog phase profile. A variety of flat optical components will be presented, including lenses, polarizers, vortex plates, coatings, holograms and couplers with polarization invariant coupling efficiency.

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SPIE Medical Imaging - Feb. 21-26, 2015 · Renaissance Orlando at Sea World, Orlando, Fla.
2015 conference topics include image processing, computer-aided diagnosis, image-guided procedures, robotic interventions, PACS and imaging informatics.
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