

This Week In PHOTONICS

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EOIR Solutions – Prototype through Production



Top Stories

Fluorescent Biosensors Shed Light on Heme Activity in Cells

Genetically encoded fluorescent sensors are providing a way to track the mobilization of labile heme (LH) in cells. The sensors offer significant insight into the nature and dynamics of this potentially dangerous nutrient of which there has been little understanding until now. Although ratiometric fluorescent techniques...

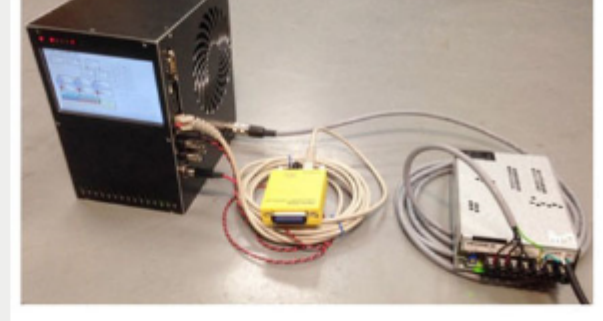


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Widely Tunable MIR QCL Holds Promise for Spectroscopy, Chemical Sensing

A broadband-tunable IR laser has demonstrated the ability to capture the unique spectral fingerprints of gases. The monolithic laser technology is compact, and is expected to have applications in spectroscopy and chemical sensing. Picture of the tunable laser system with GPIB transceiver and power supply. The main system...

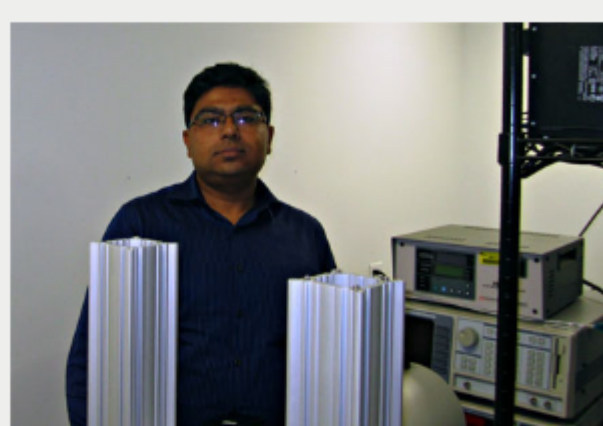


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DARPA Awards \$1.3M for IR Detection

DARPA has awarded a \$1.3 million grant to a team led by University of Central Florida researcher Debashis Chanda to fund the development of a next-generation IR detector that could be used in night vision, meteorology and space exploration. Dr. Debashis Chanda, assistant professor at the University of Central Florida's...



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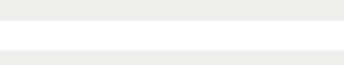
pco.edge 4.2 CLHS

Novel Design Increases Optical Efficiency in Graphene-Based OLEDs

Graphene-based OLED efficiency and flexibility have been shown to increase through a novel approach that uses graphene as a transparent electrode (TE) placed between titanium dioxide (TiO2) and conducting polymer layers. To improve the efficiency of graphene-based OLEDs, researchers from Korea Advanced Institute of...



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Rocky Mountain AIAA Names Lisa Hardaway Engineer of the Year

The Rocky Mountain Section (RMS) of the American Institute of Aeronautics and Astronautics (AIAA) has named Lisa Hardaway, of Ball Aerospace & Technologies Corp., Engineer of the Year for 2015 to 2016. "We chose Lisa as the 2016 RMS Engineer of the Year based on the wide-ranging impact her work on the Ralph program..."



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Featured Video

The Optical Society (OSA) - Alan Willner, University of Southern California

Alan Willner, OSA President and OSA Fellow, University of Southern California, USA, shares how he went from almost being a patent attorney to a career in optics.



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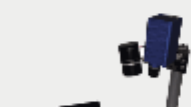


5400 TECSource Temperature Controller

Arroyo Instruments LLC

The new 5400 TECSource pushes temperature control power to new levels, with up to 960 Watts of power available for your most demanding thermal applications. The 5400 brings precision temperature control with a high contrast VFD display and standard computer interfaces in an economic design. It features ultra-stable...

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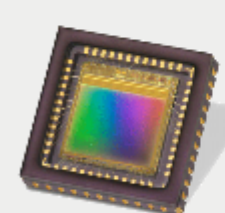


Hyperspectral Application Development Kit

Corning Advanced Optics

Corning Incorporated's microHSI™ spectral sensor systems; spanning from the visible to the infrared; combine low size, weight and power (SWaP). The development kit contains vis-NIR module and stand, motorized linear-translation stage and ultra-stable light source. The kit provides the essential tools needed to...

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e2v Unveils New Version of the Sapphire 2-megapixel CMOS Image Sensor

e2v

e2v's Sapphire family of CMOS image sensors has been expanded to include a new 2-megapixel variant, which is manufactured with a micro lens designed to accept a Chief Ray Angle (CRA) as low as zero degrees. This feature significantly improves performance with excellent uniformity of response over the whole array area,...

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Unprecedented Luminescence Lifetime Imaging Camera: the pco.film

PCO-TECH Inc.

PCO introduces a new kind of camera system. The pco.film is the first luminescence lifetime imaging camera. The camera has a revolutionary image sensor and makes use of fluorescence lifetime imaging in the frequency domain, making it suitable for numerous applications in the field of biomedical research.

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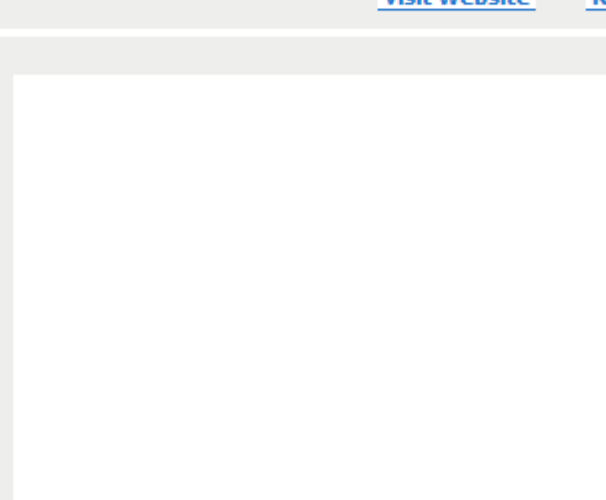
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OPTICS + PHOTONICS

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San Diego Convention Center, San Diego, California, USA
Conferences & Courses: 28 August-1 September 2016
Exhibition: 30 August-1 September 2016



Industry Events

OSA Congress: Advanced Photonics 2016

The Optical Society (OSA)
July 18-21, 2016 - The Fairmont Hotel Vancouver - Vancouver, British Columbia

The Optical Society convenes more than 40 meetings throughout the world annually to provide you with opportunities to advance your scientific ambitions, expand your professional network and influence the future of optics and photonics worldwide. Advanced Photonics 2016 covers multiple aspects of optical data and its technologies, from photonic integrated circuit design, fabrication and performance, advances in component design and performance, optical interconnects, switching and storage, optical computing, data and information processing. It also covers the network design and the control, implementation and processing needed to mitigate system impairments and optimize network and link performance. Photo courtesy of The Optical Society (OSA).



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