

THE PULSE OF THE INDUSTRY

LIGHT EXCHANGE

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FEATURED VIDEO

Edmund Optics - TECHSPEC Cage System

Katie Walker, a Product Line Engineer at Edmund Optics, showcases Edmund Optics' Optical Cage System and how it can

be used to build a digital video fluorescence microscope. The Optical Cage System is a collection of optomechanical

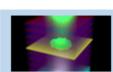
components that can be used to easily construct complicated

optical systems.





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Quantum Phenomenon Shown with Plastic Film

Instead of the usual ultrapure crystals, a plastic film similar to the material used in lightemitting smartphone displays has been used to demonstrate a complex quantum mechanical phenomenon. The first-time demonstration of a Bose-Einstein condensation (BEC) at room temperature using a luminescent polymer, achieved by scientists at IBM Research, has potential applications in the development of novel optoelectronic devices, such as energyefficent lasers and ultrafast optical switches. Such components are critical for powering the future computer systems needed to process massive Big Data workloads, and using the polymer material would be less costly and easier to apply.

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Nano-FTIR Offers Versatility in Protein Studies

First Horizon 2020 Photonics Projects Open

earmarked for photonics-related proposals.

Mobile Laser Takes On Mortars, UAVs

A new technique called Fourier transform infrared nanospectroscopy (nano-FTIR) overcomes the diffraction limits of mid-infrared spectroscopy for label-free chemical and structural imaging of protein structures with high resolution (less than 30 nm) and extreme sensitivity.

The European Commission presented its first calls for projects under the Horizon 2020 program, the European Union's seven-year, €80 billion research and innovation program. Those calls include €47 million specifically

Boeing's vehicle-mounted 10-kW class laser engaged more than 90 mortar rounds and several unmanned aerial

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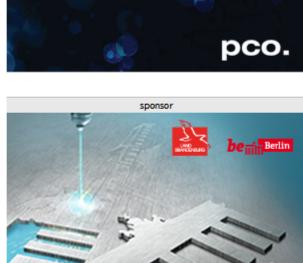


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for in-home treatment of thinning hair and male pattern baldness, maker Theradome said this week.

The first clinical-level laser hair restoration product — the Theradome Laser Helmet LH80 PRO — is now available



Image Intensified Cameras

vehicles (UAVs) in flight in tests in November and December, the US Army said.

Stanford Photonics

Laser Helmet for Thinning Hair Launches in U.S.

Stanford Photonics provides leading-edge electronic imaging, digital microscope cameras and photonics technology for use in critical imaging technology applications.

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Smallest SWIR GigE Camera

Xenics

The ultra-compact, high resolution Bobcat-640-GigE SWIR camera is optimized for machine vision and high temperature process control as well as science and R&D applications. More info >>



Mini and Micro Lens Elements Argyle International

Argyle International has added a new series of miniature and micro lens elements to its diverse line of custom

optics. Lenses are custom built to your

specifications. More info >>



VIEW-IT IR & UV Detectors Kentek Corporation

Infrared and ultra violet detectors

feature a high-efficiency, laser-sensitive material that provides an unlimited viewing period for both pulsed and continuous wave lasers.

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Georgia State Creates Nano-Optics Center

Georgia State University created a research center to focus on developing nanotechnology tools and instruments, The Center for Nano-Optics.

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 Sony ICX674 CCD sensor - 53 fps at full 2.8 MP resolution

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complex than those of rodents could incorporate the use of light pulses to genetically alter brain cells in primates. Read Article >>

Optogenetics Moves Closer to Primate Brains

The average efficiency of standard commercial solar cells has been increased by 0.4 percent, just by replacing

VDMA Photonics Forms Steering Committee The German Engineering Association (VDMA) Photonics Forum appointed high-ranking representatives from

Bandgap Boosts Solar Cell Efficiency with Nanowires

various sectors to a new, industry-led steering committee. Read Article >>

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the standard surface texture with nanowire technology, Bandgap Engineering Inc. said.



Participate at the SPIE Photonics West 2014 conference (20,000 attendees, two exhibitions, 1300 exhibiting companies, 4500+ papers) for biophotonics, biomedical optics, translational research, industrial lasers, optoelectronics, microfabrication, optical MEMS, and more.

In 2013, the exhibition sold out with more than 1234 companies. This year's exhibition will include five days of presentations, courses, and special events that offer opportunities for face-to-face interaction with potential customers.

The Job Fair will be held in conjunction with the SPIE Photonics West Exhibition. An 'Exhibit-Only' badge or any other type of Photonics West badge is needed to enter the exhibit hall. Upload your CV or resume in advance to be found by employers. In-person attendance is not required to upload your resume.

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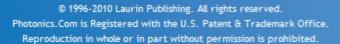
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