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**Glasses-Free 3-D Display Well Suited for Mobile Devices**  
A new glasses-free, three-dimensional display based on diffractive optics can modulate at video rates and shows an image even when tilted, making it well suited for mobile devices. "We are aiming to achieve moving holograms in some way," said David Fattal, a researcher in Hewlett-Packard's Information and Quantum Systems Lab and an author on a paper about the work. Another very important feature "is that it's compact and portable, and we think we can make it at quite low cost."

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FEATURED VIDEO



**Continuum - Introducing Horizon OPO**

In this video, Continuum introduces Horizon, its new mid-band Optical Parametric Oscillator (OPO) providing 192-2750 nm tuning range, up to 40% conversion efficiency, narrow linewidth, and active precision control throughout for hands-free operation. Compatible with Continuum pump lasers, Horizon is a complete & robust package built for consistent output.

**'Metascreen' Forms Ultrathin Invisibility Cloak**  
Most invisibility cloaks made to date have been large, cumbersome contraptions. But the University of Texas at Austin's new cloak uses a "metascreen" layer fabricated from copper tape and flexible polycarbonate film to create an ultrathin, flexible device that hides three-dimensional objects from microwaves while in their natural environment, in all directions and from all of the observers' positions.


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**FAMOS Aims to Make OCT Light Sources More Compact**  
The European Union project, Functional Anatomical Molecular Optical Screening, aims to create a tapered laser that will allow optical coherence tomography light sources to shrink to one-fifth their current size.

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**Volunteers Urge Congress to Boost Photonics Support**  
More than 250 scientists, engineers and businesspeople visited Capitol Hill last week to urge Congressional representatives to boost support for the photonics industry.


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**Show Signals Bright Future for Chinese Photonics Market**  
Asia's leading laser, optics and photonics industry event, held March 19-21 at the Shanghai New International Expo Center, attracted 539 exhibitors from 18 countries and more than 36,000 attendees, a record 25 and 5 percent increase, respectively, over last year.

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**Potomac Photonics Fabricates Stem Cell Stencil**  
The microfabricator completed rapid prototyping of precision 3-D printed parts for Boston University to support the school's stem cell research.

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In this edition of the industry's **premier weekly newscast**: Glasses-free 3-D goes mobile, a metamaterial obtains the strongest signal yet of photonic spin Hall effect, a new theory suggests an unconventional use for EMCCD, tests reveal the hazards of ordinary laser pointers, tailored photons are generated from solid-state chips, and photoacoustic microscopy receives a federal grant. Hosted by Photonics Media's Melinda Rose and Laura Marshall.

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**Unconventional Use of EMCCD Sharpens Images**  
Sharper microscopic images may be in sight with a new method developed at the University of Texas at Dallas that uses standard low-light electron multiplying CCD cameras in a highly unconventional setting to reduce noise and minimize image deterioration.

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**Metamaterials Observe Photonic Spin Hall Effect**  
A metamaterial surface constructed of V-shaped gold nanoantennas was used to obtain the strongest signal yet of the photonic spin Hall effect – a quantum mechanical optical phenomenon that could play a prominent role in the future of computing.

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**Tests Underscore Potential Hazards of Laser Pointers**  
Of the 122 laser pointers tested recently by the National Institute of Standards and Technology, nearly 90 percent of the green and about 44 percent of the red were out of compliance with federal safety regulations.

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**Industry Events**

**SPIE Defense, Security and Sensing 2013** - April 29 - May 3, 2013 · Baltimore, MD  
Visit Photonics Media at Booth 1208



SPIE Defense, Security and Sensing, the industry's leading event for the latest technologies and equipment in sensing, imaging, optics and industrial applications, features 2325 technical presentations, 500 exhibitors and 55 short courses. Industry events will include a symposium-wide plenary presentation delivered by DARPA director Arati Prabhakar, a National Security Sensor Challenges special session, a workshop on early stage technology commercialization, panel discussions and a poster reception.

The 2013 event will feature more than 2325 presentations under 55 co-located conferences covering the latest developments in 12 different program tracks, including imaging and sensing, laser sensors and systems, sensor data and information exploitation, emerging technologies, and unmanned, robotic and layered systems.

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**PHOTONICS buyers' guide**

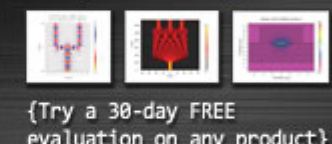
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**Industrial Imaging and Vision**  
Wednesday, April 10, 2013 – 1 p.m. EDT/10 a.m. PDT

In this webinar, hosted by Photonics Media, Clay Flannigan will present "3-D Vision for Industrial Robot Guidance" and Alex Shikany will give a "2013 North American Machine Vision Market Update" to registrants. Space is limited - sign up now!

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