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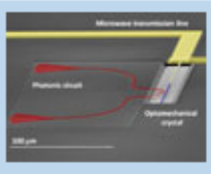

Electrical Quantum States Translated to Optical Ones

Using a piezoelectric optomechanical crystal to generate a strong optical response, a UC Santa Barbara team demonstrated a nanomechanical interface between optics and electronics, the first step toward enabling ultrafast, quantum-encrypted communications and fundamental quantum physics studies. "There's this big effort going on in science now to construct computers and networks that work on the principles of quantum physics," said Jörg Bochmann, a postdoctoral scholar in UCSB's physics department. "And we have found that there actually is a way to translate electrical quantum states [microwaves] to optical quantum states [photons]."

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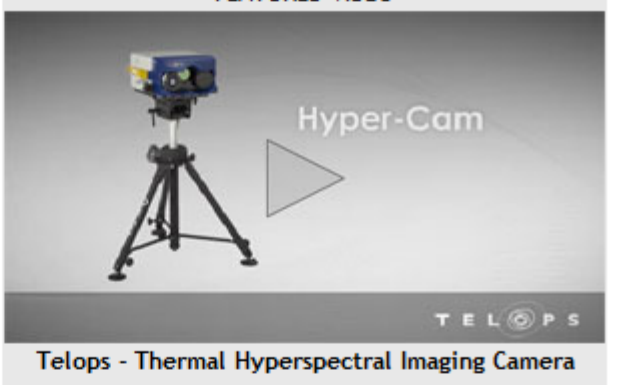

Telops - Thermal Hyperspectral Imaging Camera

This video illustrates how to install and use the Hyper-Cam a thermal hyperspectral imaging camera in an airborne configuration. The data can then be analysed and used for multiple applications including target detection and identification, geology and mining exploration and environmental monitoring. For more information, call 1-888-880-7808 or send an email to contact@telops.com. www.telops.com

Transparent OLED Display Folds, Stretches

The transparent ultrastretchable and ultrafoldable display, created at UCLA's Henry Samueli School of Engineering and Applied Science, could lead to foldable and expandable screens for new classes of smartphones and other personal electronic devices, as well as electronics-integrated clothing, wallpaper-like lighting and minimally invasive medical tools, among other applications.

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A BOLD Idea for Handling 'Big Data'

A new optical network being developed at Rice University will help streamline demanding, data-intensive computations in a customized, energy-efficient way.

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MLR-10K Laser Rangefinder

FLIR Systems

FLIR's MLR-10K laser rangefinder is the smallest and lightest solid-state laser 10,000 meter class laser rangefinder available.

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Video Inspection System

Altec Vision Equipment

Altec was founded in 1982 with the goal of providing reliable products at affordable costs and a component of aggregate services, to troubleshoot process control and quality assurance in industries that involve conversion, finishing and printing papers, packaging films, among other areas.

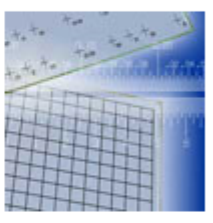
More info >>

Faraday Isolators

Electro-Optics Technology

EOT's 2µm Faraday Isolator is ideal for use with thulium and holmium lasers in the 2000 to 2100nm region. The isolator provides >30dB isolation for power levels up to 30W and has a pulsed damage threshold of 5J/cm2 at 10ns.

More info >>



Machine Vision Metrology Standards

Max Levy Autograph

Max Levy Autograph specializes in standard and custom metrology standards for the machine vision and related optical inspection industry. Our web site features over 550 NIST traceable measurement standards, patterned optical components, scales, grids, targets and reticles.

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Deadline Extended for Photonics Prism Awards

Entries are being accepted through Oct. 11 for the prestigious 2014 Prism Awards for Photonics Innovation. The new extended deadline reflects a permanent change in the annual awards program, responding to requests to move the date out of the busy late-summer period.

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South Africans Develop 'Digital Laser'

South Africa's Council for Scientific and Industrial Research (CSIR) held a press conference this week to announce development of the first digital laser, a milestone its creators say represents a paradigm shift for laser resonators.

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Bioengineers Aim for 'Visual Cortex on Silicon'

A multi-institutional group aims to create a machine vision system that approaches the cognitive abilities of the human brain. Such a system would enable computers to not only record images, but also to understand visual content at up to a thousand times the efficiency of current technologies.

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On this edition of the industry's only weekly newscast: South Africans develop a digital laser, a tunable polymer could make a truly white OLED, and we speak with the video company that documented a record-breaking jump from the stratosphere. Hosted by Photonics Media's Melinda Rose.

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Rep. Honda Sees Photonics at Work in Directed Light Visit

California Rep. Mike Honda toured Directed Light Inc. this week, becoming the latest member of Congress to learn how photonics boosts the local and national economy as part of the National Photonics Initiative (NPI).

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UKIVA to Produce Vision Stats, Present Photonex Seminar

The UK Industrial Vision Association will begin producing statistics on the sale of vision components and systems in the UK. The association also announced that it will present an imaging seminar at the Photonex Exhibition next month.

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Human/Insect Lens Adds Depth to Wide-Angle Views

A new lens that combines the focusing ability of the human eye with an insect's wide-angle view could help make a confocal microscope with no moving parts, or improve surgical imaging, say bioengineers at The Ohio State University.

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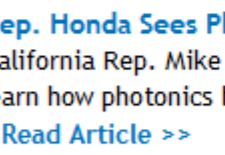
Industry Events

Frontiers in Optics 2013/Laser Science XXIX - Oct. 6-10, 2013 · Orlando, Fla.

Visit us at Booth 315



FiO 2013 — the 97th OSA Annual Meeting — and LS XXIX unite the Optical Society and American Physical Society (APS) communities for five days of quality, cutting-edge presentations, fascinating invited speakers and a variety of special events. The LS XXIX meeting serves as the 29th annual Meeting of the American Physical Society (APS) of its Division of Laser Science (DLS) and provides an important forum for presenting the latest work on laser applications and development, spanning a broad range of topics in physics, biology and chemistry.

Special Symposia topics include: Advanced Distributed Optical Fibre Sensor Systems for Security and Safety Applications, Functional Imaging of Visual Systems, the 100th Anniversary of the Bohr Atom, Photonics for Quantum Information Processing, and Laser Science Symposium on Undergraduate Research.

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