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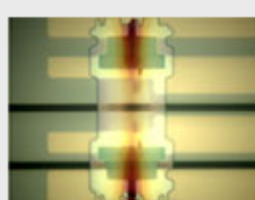
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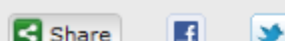
Thursday, January 22, 2015

Technique Enables Better Quantum Detectors



An array of single-photon detectors on a silicon chip could aid the development of quantum computing.

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FEATURED VIDEO



ISP OPTICS presents

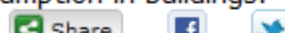
ISP Optics - Vertically Integrated IR Lens Manufacturing

Watch ISP Optics Vertically Integrated IR Lens Manufacturing.

Merck Developing Liquid Crystal Smart Windows

Merck KGaA has developed a liquid crystal mixture that, when used in windows, can adjust the intensity of incident daylight in seconds to reduce energy consumption in buildings.

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Primoceler, ON Semiconductor to Provide Hermetically Sealed CMOS Sensors for ESA

Based on ON Semiconductor's HAS3 hermetic design, the sensors are encased in an impermeable seam of glass using laser welding technology.

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Products on PhotonicsBuyersGuide.com




Optical/Illumination Design Software

Zemax LLC

The optical design package is ideal for imaging systems, afocal systems, laser systems, and fiber coupling. The illumination package is engineered for radiometric/photometric analysis, stray light analysis, and opto-mechanical design.

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Photon-Detection Photodiodes

Opto Diode Corp.

Opto Diode offers an expanded line of semiconductor radiation sensors for detecting photons and other particles. The IRD AXUV-100GX and IRD SXUV-100 absolute devices feature unparalleled quantum efficiency stability and radiation hardness.

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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. Lens designs range from single and double convex, single and double concave and many more.

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Spatial Light Modulators

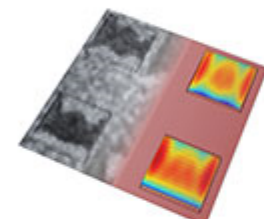
Meadowlark Optics

Meadowlark Optics, Inc. manufactures and sells both transmissive and reflective liquid crystal on silicon (LCoS) Spatial Light Modulators (SLMs).

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Ultrafast Lasers Signal Batman from Magnetic Hard Drive



Researchers may have unintentionally summoned Batman as they work to store larger amounts of data on smaller hard drives using lasers.

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PureLiFi Ships Network Systems, Secures New Investment

Optical wireless communications firm PureLiFi has raised £1.5 million from angel investors, bringing the startup's total value to £14 million.


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Diamond Defects Enhance Single-Photon Emission

Nanodiamonds containing atomic-scale defects can enhance metamaterials' emission of single photons — an important attribute of future quantum computers.

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In this edition of the industry's **premier weekly newscast**: Lasers can transform ordinary metals into supermaterials that soak up light while making water bounce off like a trampoline. Also, we explore a new substance that could replace organic laser dyes, and a new 3-D microscopy technique that's much faster than current methods for capturing cellular phenomena. Plus the finalists for the Prism Award for optics and optical components.

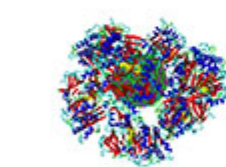
Princeton Optronics Provides VCSELs for Google Project

The initiative, called Project Tango, will use vertical cavity surface emitting lasers (VCSELs) from Princeton Optronics as illumination sources for motion and depth sensing for mobile devices.

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Computer Model Details QD Interaction with Protein



In biological systems, proteins tend to surround quantum dots, changing their sensitivity to light and usefulness for bioimaging.

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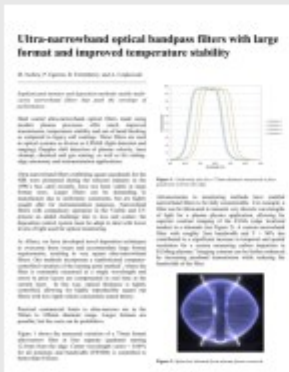
18 Entrepreneurs to Square Off in Photonics West Pitch Contest

Some of the entries this year include a robotic platform for laser eye surgery, a sensors for self-driving cars, software for designing silicon photonic devices and an optical microphone.

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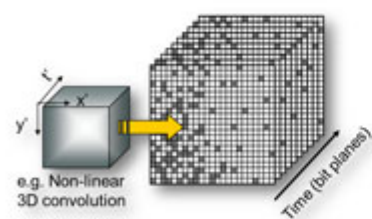
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WEBINAR

Quanta Image Sensors

Wednesday, January 28, 2015 1:00 PM - 2:00 PM EST

FREE WEBINAR



Dr. Eric Fossum

The quanta image sensor (QIS) concept involves counting individual photons on sensors made of 1 billion or more specialized sub-diffraction-limit photodetectors (called jots). A series of bit planes is generated through high-speed readout, and a kernel or "cubicle" of bits (X,Y, t) is used to create a single output image pixel. The size of the cubicle can be adjusted post-acquisition to optimize image quality. Jots are read out at 1000 fps, for a data rate exceeding 1Tb/s.

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Industry Events

Biophysical Society 59th Annual Meeting - Feb. 7-11, 2015 · Baltimore, MD

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