

Asia-Pacific PHOTONICS



PHOTONICS MEDIA

Quarterly newsletter highlighting the latest photonics news, features and products targeted to the Asia-Pacific regional market. Manage your Photonics Media membership at Photonics.com/subscribe.


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MARCH 14-16, 2018
 SHANGHAI NEW INTERNATIONAL EXPO CENTRE
 China's Platform for the Photonics Community
LASER & PHOTONICS CHINA

Asia-Pacific News

F-VLEDs Could be Used for Next Gen Displays and Biomedical Applications

Flexible vertical micro-LEDs (F-VLEDs) have been developed using anisotropic conductive film (ACF)-based transfer and interconnection technology. Thermal reliability and lifetime were improved by reducing heat generation within the thin film LEDs.



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Tiny Vision Processing Chip Could Reduce System Size for Use in IoT

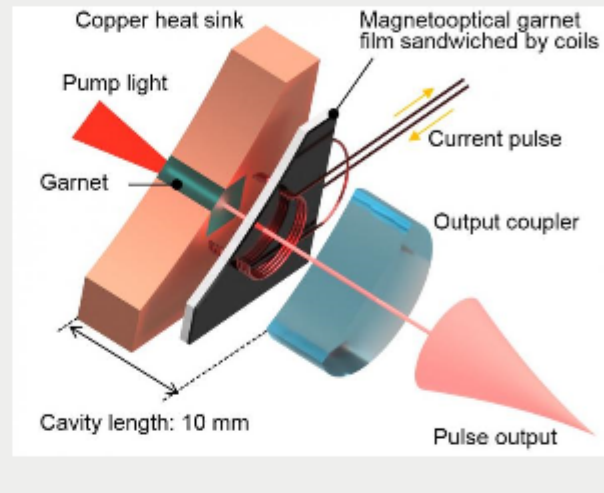
Scientists have developed a microchip that can capture visual details from video frames using extremely low levels of power. According to the research team, the chip's video feature extractor uses 20 times less power than existing best-in-class chips. The new microchip could reduce the size of smart vision systems down to the millimeter range.



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Magneto-Optical Q-Switched Laser Generates Unpolarized Light

By using a technique — called q-switching — that utilizes short but high-powered pulse outputs, a laser one-tenth the size of an American penny produced a beam that is 10 times more powerful than previously reported with larger lasers. The q-switch was performed in an Nd:YAG laser cavity. A research team...

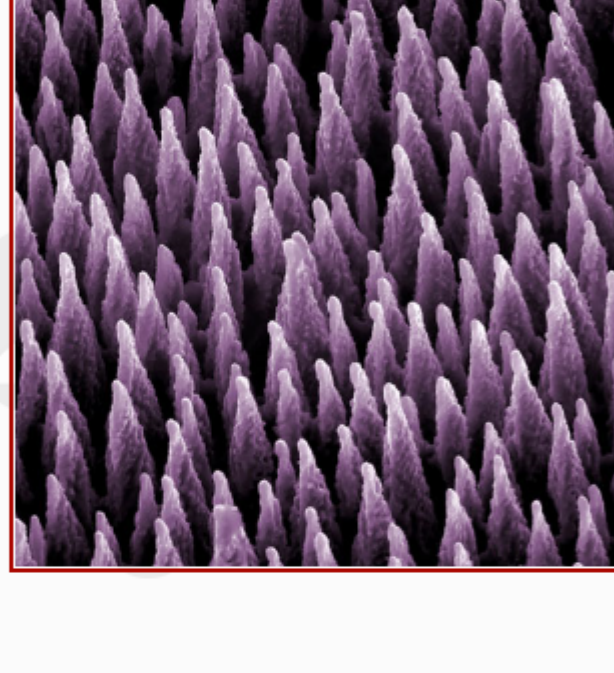


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Webinars

Get Primed on Ultrafast Lasers before LWOP China

In this free **on-demand webinar**, presenter René Dionne will highlight market trends in the femtosecond and picosecond laser market and underpin the challenges facing ultrafast laser manufacturers and integrators.

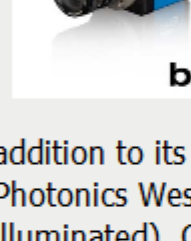


Ultrafast laser technology and applications will be one of the top topics at the Laser World of Photonics China conferences and exhibition this year. This **free webinar** is the perfect primer on the different technologies used in fs and ps ultrafast lasers.

Meet René at Laser World of Photonics China in Shanghai from March 14 to 16, 2018 at TeraXion's distributor Luster LightTech's booth W3.3141

[Watch Now](#)

Featured Products

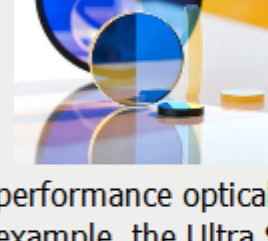


pco.panda 4.2 bi: back illuminated sCMOS

PCO-TECH Inc.

German-based sCMOS pioneer PCO has just introduced the latest addition to its camera family at San Francisco's SPIE Photonics West exhibition: the pco.panda 4.2 bi (back illuminated). Only one year ago, the predecessor pco.panda 4.2 with a front illuminated sensor had its first public appearance there. PCO's sCMOS family, being the most versatile scientific imaging portfolio on the market, is renowned for its extremely low readout noise, high resolution and dynamic ranges.

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Alluxa Ultra Series Filters and Coatings

Alluxa

Alluxa Ultra Series Filters, including Narrowband, Dichroic, UV, IR, and Notch filters, provide the highest performance optical thin film solutions available today. For example, the Ultra Series Flat Top Narrowband filters offer the narrowest bandwidths and squarest filter profiles in the industry.

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Cleared Tissue Objective

Applied Scientific Instrumentation Inc.

The Cleared Tissue Objective is an immersion objective lens specifically designed for light sheet microscopy of cleared tissue samples, including ASI's dual-view Selective Plane Illumination Microscopy (dSPIM), which enables isotropic resolution without manipulating the sample. The lens is also appealing to researchers building customized microscope setups (e.g. OpenSPIM type) because it is available for separate purchase unlike other objectives suitable for cleared tissue.

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DBR Lasers for Various Applications

Photodigm Inc.

Photodigm DBR laser diodes bring the capability of research lasers to portable and hand-held precision instruments. Our single frequency Application-Certified™ and Spectroscopy-Certified™ DBR lasers are available in various packages at several standard wavelengths between 760nm and 1083nm with power levels up to 400mW. Photodigm monolithic semiconductor DBR lasers deliver research grade performance from a scalable robust microchip.

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Machine Vision

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Machine Vision is a new book for anyone designing or selecting machine vision systems, and implementing or considering the use of machine vision for a specific application. This engaging overview

is a resource for designers, engineers, researchers, marketers and students looking for a broad survey of advancements in systems, components and processes.

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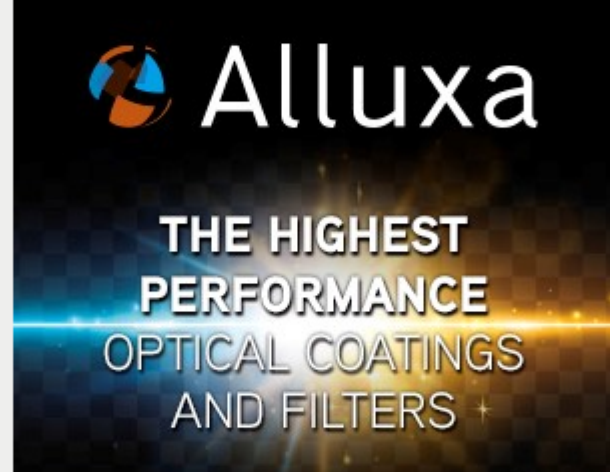
PM Coupler Arrays

Evanescence Optics Inc.

Splice-free cascaded PM couplers can be manufactured as 1 X N and 2 X N coupler arrays with any output ratios and at wavelengths from 0.45um to 2.04um. PER is better than -24dB per coupler, with loss typically less than 0.1dB per coupler. The program "Cascade" models the output characteristics and can be downloaded from the company's website.

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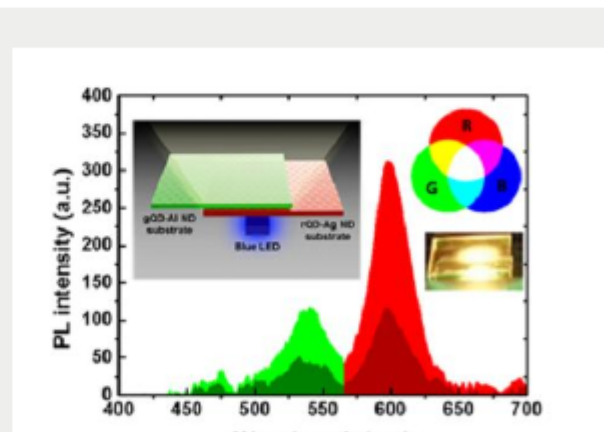
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More News

Team Uses Plasmonics to Improve QD LED Efficiency

Researchers have designed metallic nanostructure substrates that can lower production cost while improving the efficiency of quantum dot (QD) LEDs. For its design, the team exploited the phenomenon of so-called surface plasmonic resonances that can occur when nanoscale metallic structures are exposed to light. To enhance...



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NTU, Volvo Buses Testing Self-Driving Electric Buses in Singapore

Nanyang Technological University, Singapore (NTU Singapore) and Volvo Buses will begin testing autonomous electric passenger buses in Singapore in 2019. NTU and Volvo will begin testing autonomous electric passenger buses at the CETRAN test centre from 2019 and the 40-seater buses will be equipped with GPS and...



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OPIC 2018: Promises Innovation, Education

With groundbreaking research and innovative technology development, the future of the photonics industry is continually evolving. The Optics and Photonics International Conference (OPIC) will bring such developments, as well as a look at the future's potential, to the Pacifico Yokohama convention complex in Japan from April 23 to 27. OPIC — organized by the Optics and Photonics International Council and co-chaired by Yoshiaki Kato and Kazuo Kuroda — focuses on "the...



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Asia-Pacific: A Powerhouse Region

As technology advances, so, too, does the level of competition among product developers. Those in the Asia-Pacific region are dashing to the front of the pack, boosting the market in various sectors of photonics. Asia-Pacific is expected to see a higher annual growth rate between 2017 and 2022 in the photonics market...

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Qbic Representing Bristol in Asia

Optical Interferometer-based instrumentation developer Bristol Instruments Inc. will be represented by Qbic Laser System Inc. in Asia. The company will represent Bristol's laser spectral characterization products, such as high-accuracy wavelength meters and high-resolution spectrum analyzers. Qbic Laser System is a...

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