

# Asia-Pacific PHOTONICS



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](http://Photonics.com/subscribe).

## Asia-Pacific News

### Technique to Suppress Photobleaching Increases Imaging Window

Researchers have developed a way to suppress photobleaching when using live-cell single fluorescent-molecule imaging (SFMI). The new method improves the observation time of fluorescent molecules by 40-fold, according to the team.



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### Optically Rewritable LCD Could Enable Flexible Displays

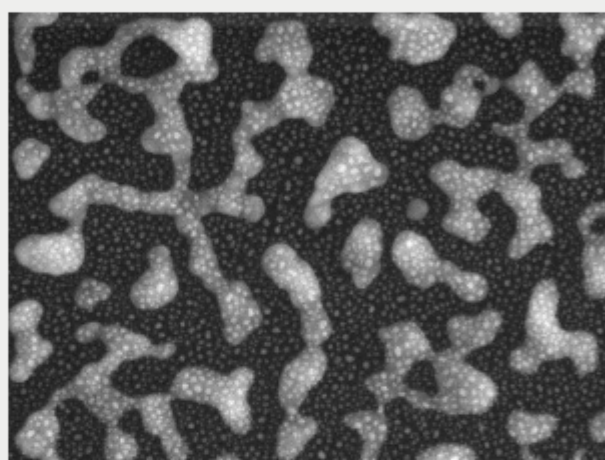
As with conventional LCDs, the ORW LCD is structured like a sandwich, with a liquid crystal filling between two plates. However, unlike conventional LCDs, where electrical connections on the plates create the fields needed to switch pixels from light to dark, the plates of ORW LCDs are coated with molecules that realign in the presence of polarized light and switch the pixels.



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### Sensing Chip Uses Raman Spectroscopy to Detect Cocaine in Minutes

A chemical sensing chip, developed for use with surface-enhanced Raman spectroscopy (SERS), has demonstrated the ability to detect the chemical fingerprint of cocaine in biological samples. In the future, the technology could be used to detect the presence of other drugs, including marijuana, and could be integrated into a hand-held, portable device for on-site testing.



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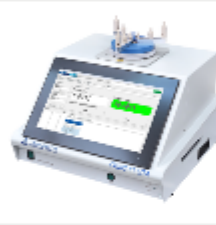
## Featured Products



### [pco.panda 4.2 back illuminated \(bi\)](#)

**PCO-TECH Inc.**  
German-based sCMOS pioneer PCO has just introduced the latest addition to its camera family: the pco.panda 4.2 back illuminated (bi). PCO's sCMOS family is the most versatile scientific imaging portfolio on the market. It is renowned for its extremely low readout noise of 1.0 e- med, high resolution of up to 5.5 megapixels...

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### [Non-contact Lens Thickness Testing](#)

**TRIOPTICS GmbH**  
Conventional tactile measurement of the lens center thickness usually limits the production process of single and cemented lenses in terms of achievable accuracy and production output. The OptiSurf® LTM non-contact lens center thickness measurement system by TRIOPTICS provides a solution to both problems.

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### [Lasers in Industry](#)

**Photonics Media**  
Photonics Media has gathered articles and other valuable resources into a guide to the current use of lasers in industry, a reference tool and a resource for learning. This book is for anyone working on, implementing or considering the application of lasers for and in industrial settings.

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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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## More News

### Nanophotonic Sensors Monitor Processes in Living Cells

A large-scale biosensor developed using nanoplasmonic material is able to accommodate a large number of cells on a single substrate and monitor cell proliferation in real time. The nanoplasmonic material allows for long-term cell survival and unaltered cellular responses. Nanomushroom biosensors can be used to count...



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### Blackbird, Intech Bolster Partnership in Japan

Laser welding technology developer Blackbird Robotersysteme GmbH (Blackbird Robotics) will use Intech Co. Ltd. as its sales agent in Japan, providing customers with all-in-one welding solutions that include the laser source, a premium scan system, and a control system. The intensified partnership will also support the...

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### Neutron Technology Enterprise to Represent Desert Silicon

Desert Silicon Inc., a supplier of spin-on glass (SOG) and other materials, has appointed Neutron Technology Enterprise of Singapore to represent its SOG products in Singapore, Malaysia, and the Philippines. "We are very pleased to announce a partnership with Neutron Technology as part of a strategic distribution..."

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### Husun to Distribute Optomec 3D Printing Systems in China

Additive manufacturing systems developer Optomec has signed a partnership agreement with 3D printing equipment provider Husun Technology Group to resell the Optomec LENS Systems for 3D Printed Metals in China. Husun promotes advanced industrial 3D printing solutions in China and has established a diverse customer base in...

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