# This Week In

**PHOTONICS** MEDIA





## Compact, Low Cost, <30pm Resolution in the Visible or NIR

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## VNIR HSI Technology Can be Integrated With Consumer

**Devices** 

#### A cost-efficient hyperspectral imaging (HSI) technology has been developed that could enable new artificial intelligence (AI) applications to be introduced into mobile devices, allowing for potential use in

smart home systems. The camera uses very-near-infrared (VNIR) wavelengths to detect and label materials and properties of different objects within an environment. AI is used to interpret the environmental spectral data within the VNIR range. Read Article 3 A m 🗸

**Plants** 

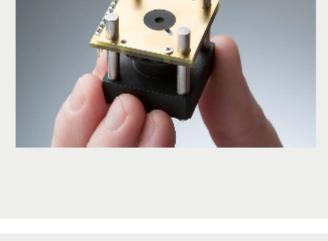


and friction-stir welding.

Airborne Viruses







#### with the Electric Power Research Institute (EPRI). The system, designed and installed in a hot cell at ORNL's Radiochemical Engineering Development Center, safely encloses equipment for laser

A system for welding highly irradiated metal alloys has been developed by researchers at Oak Ridge National Laboratory (ORNL) in partnership

Far-UVC Light Could Safely Limit Spread of Flu, Other



### conventional germicidal UV light. Far-UVC light could offer a safe, lowcost solution to controlling airborne microbial diseases in indoor public spaces.

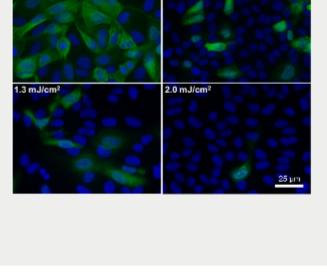
inactivated the flu viruses with about the same efficiency as

**Shapes** 

Continuous low doses of far-UVC light have been shown to kill

airborne flu viruses without harming human tissue. The far-UVC light

3 A B D Read Article **Featured Products** 



Pioneering sCMOS Back

photon counts, PCO's back

To see or not to see: If every single

Illuminated!

illuminated sCMOS camera system pco.panda 4.2 bi can

illuminated sensor and based on the latest innovations in

lead you to the answer. Enabled by PCO's new back

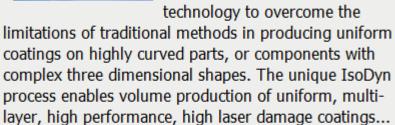
sCMOS technology, the pco.panda 4.2 bi reaches a

excellent building block for system applications.

up to quantum efficiency

PCO-TECH Inc.

#### DSI developed IsoDyn™ coating technology to overcome the



The

New

Collar

Workforce

Anto-McW Odforb Kindra Impedia Chargo in Hombido agrad Toming

equals lie (sweet)

Visit Website Request Info

The New Collar Workforce

Photonics Media

IsoDyn™ - Coating Complex

Deposition Sciences Inc. (DSI)

expected to face a shortage of two million skilled workers by the year

2020, according to reports. As a

result, manufacturers and educators

U.S. manufacturing companies are

are looking for real, actionable ideas to train workers, reduce the shortfall and realize the potential of the new age of manufacturing. Visit Website Request Info

38th ASLMS Annual Conference on

April 11-15, 2018



bilback luminated

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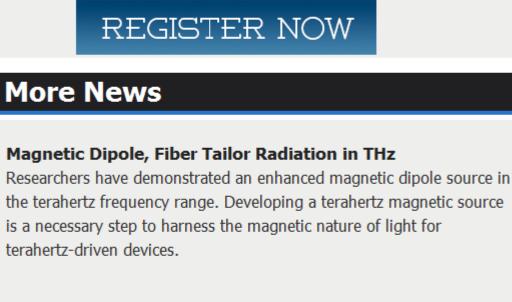
Multi-Channel Controller Arroyo Instruments LLC The new 7000 Series MultiSource Multi-Channel Controller is designed for applications requiring a high channel count in a cost-effective and compact solution. With laser driver and temperature controller options, the MultiSource is an

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pco.

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ENERGY-BASED MEDICINE & SCIENCE





mini-LED

## 

**Biomedical Applications** 

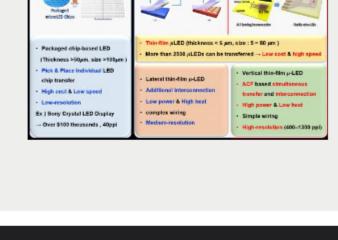
**More Headlines** 

## F-VLEDs Could be Used for Next Gen Displays and

3 7 6 0

anisotropic conductive film (ACF)-based transfer and interconnection technology. Thermal reliability and lifetime were improved by reducing heat generation within the thin film LEDs.

Flexible vertical micro-LEDs (f-VLEDs) have been developed using



Ulis Thermal Sensor Used in Irlynx Smart Building Device Read Article

Read Article



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United States





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Yokohama, Japan

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