# PHOTONICS













spectra

Monthly newsletter from the editors of Photonics Spectra, with features, popular topics, new products, and what's coming in the next issue.

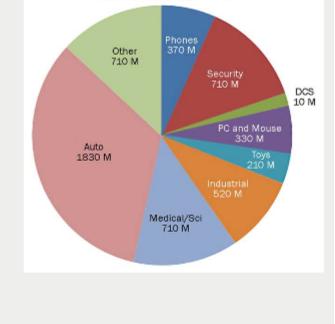


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#### **Optical Biomedical Imaging** Compiled from the pages of Photonics Media magazines. 332 pages Only \$69.00

#### It is no secret that CMOS image sensor technology has undergone a rapid transformation. Driven by the consumer cellphone market's insatiable demand for

fast, high-quality images, there has been substantial investment in CMOS sensor technology, resulting in products that deliver smaller pixels, higher sensitivity and lower noise at a decreased cost.



coh. pop. reph. time time time

Diffractive

3 slg

4=L0

Lens

Spectrometer

Curved Mirror

Sample

Wedged

Absolute \$ Growth 2015 to 2020



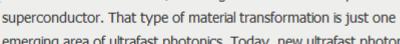






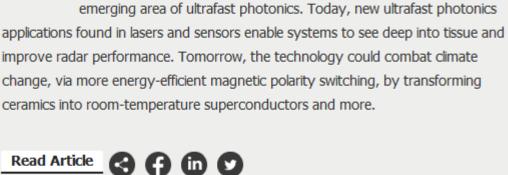
function of wavelength to yield information about the structure of the sample being interrogated. In recent years, 2D spectroscopy methods have been developed where the signal is plotted as a function of two different frequencies. This provides unique structural and dynamic information about samples, ranging from model photosynthesis systems to nanomaterials, enzymes, proteins, surface catalysts and semiconductors. Read Article (4) (in)

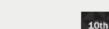
electronic and THz all involve measuring light absorption or an emission signal as a













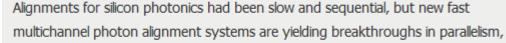






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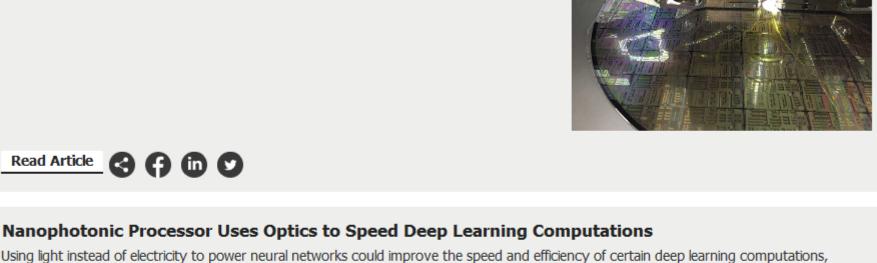


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especially tasks that involve repeated multiplications of matrices that can be computationally intensive for conventional CPU or GPU chips.

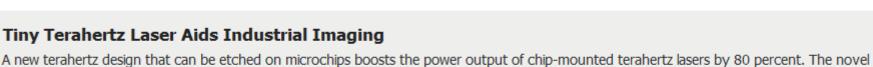
scalability and speed.



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design shows promise for future industrial imaging and chemical detection applications.

The Aries Spectroradiometer

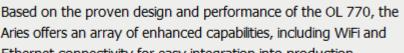
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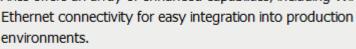
generation spectroradiometer, the Aries.

Gooch & Housego Orlando

## **Featured Products**



environments.



**Webinars** Learn Efficient Light Pipe Design Using Virtual Prototyping Tue, Sep 19, 2017 1:00 PM - 2:00 PM EDT

light pipe model, analyzing cross-talk effects, producing desired output objectives,

power and tools to simulate and design light pipes. The presenter will demonstrate effective methods and detailed procedures for simulating light propagation in a

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High Brightness Fiber-coupled

New high power and brightness fiber-

Attendees will learn how to design better, more efficient light pipes using Lambda Research's TracePro software - a 3D CAD virtual prototyping program with the

Diode Laser

coupled diode lasers at 915nm and 976nm provide more power up

to 150W from a single 105µm/0.22NA fiber and up to 210W from a

single 200µm/0.22NA fiber. With the same package the power of

wavelength stabilized diode laser at 976nm reaches max.

PhotonTec Berlin GmbH

#### and optimizing models for efficiency and output. This webinar is for anyone designing light pipes, especially for automotive and avionic displays, industrial manufacturing, consumer electronics applications and medical devices. It's

## presented by Lambda Research Corporation.

Applications Tue, Oct 10, 2017 1:00 PM - 2:00 PM EDT This webinar will provide an overview of the state of the art in hyperspectral imaging (HSI) and cover a number of applications for HSI spanning medical imaging to agriculture and anti-counterfeiting. The webinar will conclude with an outlook on some of the exciting new technologies that are expected to continue to transform this imaging modality and move it into the domain of the consumer. Presenter Hod Finkelstein is CTO of TruTag Technologies where he leads imaging systems development and microparticle productization teams. Register Now

Mobile Hyperspectral Imagers: Implementations and

Register Now



## Coming in October...

## Features

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## among the engineers, scientists and end users who develop, commercialize and buy photonics products.



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