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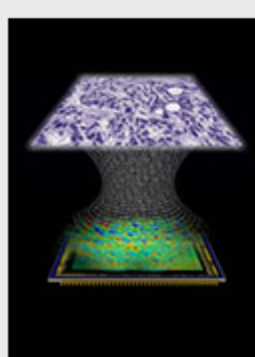
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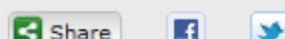
Monday, December 29, 2014

Lens-Free 3-D Microscope Sharp Enough for Pathology



With a field of view several hundred times larger than that of an optical microscope, the lens-free device could considerably speed up diagnostic imaging. It is also much smaller than conventional microscopes.

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FEATURED VIDEO



presents the new active alignment solution for perfect camera modules

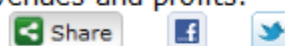
TRIOPTICS – ProCam Align

With ProCam® Align TRIOPTICS offers a stand-alone production solution for the maximal optical performance of high resolution camera modules. By using active alignment within the range of sub-microns in up to six degrees of freedom TRIOPTICS ProCam Align leads to higher production yield with the highest image quality possible.

At Year's End, Zeiss Seeks to 'Sharpen Competitiveness'

Citing global financial uncertainty and unfavorable currency conversion rates, the Zeiss Group nonetheless ended its fiscal year Sept. 30 with increased revenues and profits.

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Panasonic Welding Robots to Use TeraDiode Lasers

Direct-diode lasers are more affordable, reliable and efficient than fiber and disk lasers commonly used in industry, according to TeraDiode.

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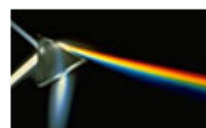
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LDD / TEC Controller

Arroyo Instruments The new 6300 Series ComboSource Laser Diode Controller offers the best of both worlds: a high accuracy, low noise laser driver and a powerful 60W temperature controller, all in one compact instrument.

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Refractive Index

M3 Measurement Solutions M3 provides refractive index testing at wavelengths from 350nm to 14µm. We offer two sample configurations. Curve fitting and dispersion algorithms can be reported upon request.

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Time-Resolved Filter Fluorometer

Optical Building Blocks (OBB) announces the introduction of the EasyLife-X fluorescence lifetime system. The EasyLife-X is the simplest, smallest and least expensive fluorescence lifetime system commercially available.

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Window Protection Shades

Kentek Corporation Kentek's laser safe window protection shades and blocks are made-to-measure for virtually every shape and size window. Shades come on clutch-driven roller assemblies and will retract quickly and neatly.

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Silicon Chip Produces Tunable Photon Pairs



A silicon photonic chip that emits entangled photon pairs in a controlled fashion could one day enable quantum transceivers.

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Mass General, Infraredx Partner to Explore Cardiovascular Imaging Devices
Coronary imaging has rapidly evolved over the past decade and has become an important part of the practice of diagnostic and interventional cardiology," said Dr. Gary Tearney, a professor of pathology at Harvard Medical School and founder of the Tearney Lab at the Wellman Center for Photomedicine at Massachusetts General Hospital.

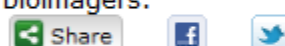
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2-D Material Shows Promise for Image Sensing

Ultrathin chalcogenide films could form the basis of tiny, adaptable bioimagers.

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In this edition of the industry's **premier weekly newscast**: we learn about a lens-free microscope that could be just as useful as its optical counterparts for pathology, and explore how silicon might make a useful light emitter after all. We also review December's top business news, and introduce you to the finalists for the Prism Award in sensors and detectors.

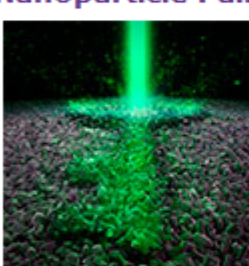
Dynasil Turns a Profit After Restructuring

The developer of optics and sensors for homeland security, medicine and industry reported year-end earnings of \$2.0 million, compared to a net loss of \$8.7 million in fiscal 2013.

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Nanoparticle Paint Enables Fraud-Proof Credit Cards



Light could soon build a brick wall between credit cards and hackers, as a fraud-proof authentication technique can keep credit cards and the identities associated with them secure.

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Optogenetics Gives 'Read-Write' Access to Brain

Combining two light-based techniques has enabled researchers at University College London to both observe and control brain activity in mice.

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WHITE PAPER

How to Use Imaging Colorimeters for FPD Automated Optical Inspection

Radiant Zemax, LLC, Radiant Zemax Test and Measurement

The use of imaging colorimeter systems and analytical software to assess display brightness and color uniformity, contrast, and to identify defects in FPDs is well established. A fundamental difference between imaging colorimetry and traditional machine vision is imaging colorimetry's accuracy in matching human visual perception for light and color uniformity. This white paper describes how imaging colorimetry can be used in a fully-automated testing system to identify and quantify defects in high-speed, high-volume production environments.

[DOWNLOAD WHITE PAPER >>](#)

Industry Events

NanoMeta 2015: The Fifth International Topical Meeting on Nanophotonics and Metamaterials - Jan. 5-8, 2015 · Seefeld, Austria



The European Physical Society's NanoMeta 2015 aims to bring together the international nanotechnology, photonics and materials research communities to discuss their most recent and challenging results in an informal setting.

The technical programme will include invited and selected contributed papers in the areas of: metamaterials and metadevices; nanophotonics and nanobiophotonics; plasmonics and plasmoelectronic devices; nanophotonic, hybrid and quantum materials; localization of light and optical super-resolution.

The conference will be organized in two oral parallel sessions (nanophotonics and metamaterials) and will feature joint plenary, tutorial and post-deadline sessions. The conference timetable will be arranged in a way that permits mid-day breaks for recreational activities and informal contact between participants.

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