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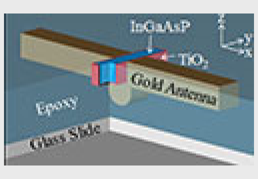
PHOTONICS.com

PHOTONICS MEDIA

THE PULSE OF THE INDUSTRY

Thursday, February 12, 2015

Spontaneous Emission Enhanced by Nanoantennas



LEDs enabled by nanoscale antennas to spontaneously emit more light could be a better solution than lasers for short-range optical communications.

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Newport to Acquire Austrian Firm Femtolasers

Femtolasers develops ultrafast lasers for scientific and biomedical research applications, including attosecond systems to study physical, chemical and biological phenomena at the atomic and subatomic levels.

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Teledyne Acquires Underwater Imaging Firm Bowtech

Bowtech designs and manufactures vision systems, including rugged cameras and LED lighting sources, for use on remotely operated vehicles in harsh underwater environments.

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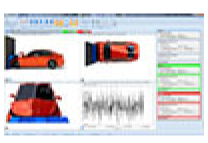
FEATURED VIDEO

Newport Corporation - OpticsCage+

OpticsCage+™ utilizes an easy-to-use snap-in design to expedite the creation of optical systems. Most cage systems only use a closed-hole captive design for adapting optic carriers to the 4-rod cage structure. This restriction requires a nearly complete teardown of a cage system to simply add or remove a component. The open-slot design of OpticsCage+ allows optical elements to be inserted directly into an assembled cage without the need for disassembly.

Featured Products



Streampix 6 DVR Software
NorPix
Streampix 6 is a multiple camera capture software that supports over 200 different brands of scientific and machine vision cameras including GigE Vision, USB3 and Camera Link.
More info >>

Now Offering Same Day Shipping
United Lens
At United Lens we've maintained our standing in the optical industry for nearly 100 years because we listen to our customers. Over the years the demand for certain stock items in our inventory has increased.
More info >>

FiberCube Laser Marking System
LaserStar Technologies
The FiberCube laser marking and laser engraving system is a compact, turnkey marking, engraving and cutting system that offers the benefits of a non-contact, abrasion-resistant, or permanent laser mark onto almost any type of material.
More info >>

Linea Line-Scan Camera
Teledyne DALSA
The new Linea family of line scan cameras provides the uncompromising performance and rich feature-set found in Teledyne DALSA's high-end line-scan cameras at an unprecedented price point.
More info >>

PHOTONICS buyers' guide

Looking for **Lasers and Laser Systems products? Search** the Photonics Buyers' Guide or Browse these product categories:

- **Aluminum-Free Diode Lasers**
- **Diode-Pumped Solid-State Lasers**
- **Laser Beam Profilers**
- **Laser Mirrors**
- **Noncontact Automatic Inspection Systems**
- **Spectroscopy Laser Systems**

More Articles on Photonics.com

Fluorescent Probe Shows Promise in Osteoarthritis Treatment

Tested in mice, the probe detected the activity leading to cartilage loss in joints. As the osteoarthritis progressed, the probes' brightness levels increased.

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Edmund, Fisba Partner on IR Glass-Molded Optics

The new components will be suited for life sciences applications such as thermal imaging and laser surgery, as well as industrial and environmental applications in remote sensing and thermal imaging for detection and security.

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Adimec Names Dual CEOs

Chief Marketing Officer Dr. Joost van Kuijk and Chief Financial Officer Alex de Boer will lead the industrial camera company.

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In this edition of the industry's **premier weekly newscast**: A shattered mirror could work better than one that's intact to create the most detailed images of distant exoplanets and other space objects. Join us as we piece it together!

Quantum Materials Begins Shipping of Cadmium-Free QDs

The company said its products make energy-efficient and environmentally friendly components for displays, solid-state lighting, solar photovoltaic power applications, advanced battery and energy storage solutions, biotech imaging and biomedical theranostics.

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Organic Solar Cells Unaffected by Nanostructure

Bulk heterojunction organic solar cells that are highly organized at the nanoscale are no more efficient at creating free electrons than cells with poorly organized structures.

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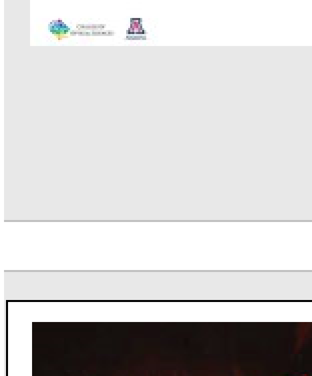
Antennas Enable Nanoscale Terahertz Spectroscopy

The relatively large wavelength of terahertz radiation — about about 300 μm at 1 THz — normally hinders its interaction with nanoscale objects.

Read Article >> Share

WHITE PAPER

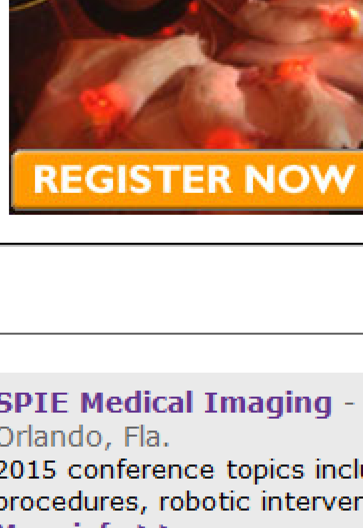


Simultaneous Intensity Profiling of Multiple Laser Beams Using the BladeCam-XHR Camera
DataRay Inc.

There are several applications where the parallel processing of multiple beams can significantly decrease the overall time needed for the process. Intensity profile measurements that can characterize each of those beams can lead to improvements in that application. If each beam had to be characterized individually, the process would be very time consuming, especially for large numbers of beams. This white paper describes how the BladeCam-XHR can be used to simultaneously measure the intensity profile measurements for multiple beams by measuring the diffraction pattern from a diffraction grating and the intensity profile from a 3 x 3 fiber array focused using a 0.5 NA objective.

DOWNLOAD WHITE PAPER >>

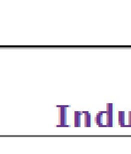
WEBINAR



Photobiomodulation: Laser Therapy for the Nervous System

Thu, Feb 19, 2015 1:00 PM - 2:00 PM EST

FREE WEBINAR



Juanita Anders

The use of "low level" light applications, termed photobiomodulation (PBM), as a noninvasive, neuro-restorative therapy for the treatment of injury and diseases of the nervous system has potential to revolutionize the repair of injured nerves. Experiments on the use of PBM to repair injured spinal cords and peripheral nerves will be discussed, along with the scientific basis for this improvement.

Industry Events

SPIE Medical Imaging - Feb. 21-26, 2015 · Renaissance Orlando at Sea World, Orlando, Fla.
2015 conference topics include image processing, computer-aided diagnosis, image-guided procedures, robotic interventions, PACS and imaging informatics.
More info >>

CALLING ALL BIOPHOTONICS INNOVATORS!

Photonics Media is seeking presenters for "Biophotonic Imaging for Medicine," a free digital conference to be held June 11. We invite presentations from researchers, clinicians and engineers working at the graduate, doctoral and professional levels. Topics of interest include light-sheet microscopy, optical coherence tomography, photoacoustics, computational imaging and more. Visit **www.photonics.com/bioconference** to find out more and submit an abstract.

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