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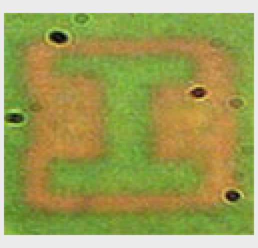
Thursday, July 24, 2014

Nanoantennas as Photo Film Boost Optical Data Storage



Nanoantennas can be used like traditional photographic film to record light at distances smaller than its own wavelength. This could mean big things for the future of optical data storage.

Read Article >>

Laser Could Replace Quartz in Future Electronics

A new laser optical technique could replace quartz crystals as the tuning reference for future electronic devices.

Read Article >>

Solar Energy Researcher wins $10,000 Award

Theresa McCormick has been awarded the Spring 2014 Equipment Grant Competition, along with $10,000 from Horiba Scientific.

Read Article >>

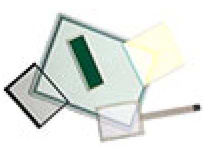
Products on PhotonicsBuyersGuide.com

Bobcat-640-GigE SWIR Camera

Xenics

The affordable ultra-compact and high resolution Bobcat-640-GigE SWIR camera is optimized for machine vision and high-temperature process control, as well as science and R&D applications.

More info >>



Thin Film Coating Solutions

ZC&R Coatings for Optics

ZC&R Coatings for Optics provides high-efficiency coatings for industrial, commercial, and opto-electronic applications. The broad selection of coatings is applied via electron beam and ion-assisted electron beam deposition.

More info >>

Glass & Polymer Fused Fiber Optics

Incom, Inc.

Making critical contributions to the scientific, medical, life-sciences and defense markets, INCOM is the world's largest supplier of glass and polymer fused fiber optics and microstructures.

More info >>

One Stop Solution

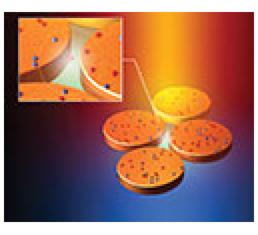
United Lens Corp.

ULC has evolved from a modest beginning as a molder of spectacle and optical lens blanks into a full service source for finished optics, optical coatings, machined precision blanks (and, yes, molded lens blanks).

More info >>

More Articles on Photonics.com

Sensor Amplifies Molecule Signatures



A new spectroscopy technique can accurately identify the structure and composition of individual molecules.

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Fluorescence Detects Alzheimer's Indicators in the Eye

Two fluorescence imaging approaches can find traces of plaque associated with Alzheimer's disease in the eye, presenting possible opportunities for early intervention.

Read Article >>

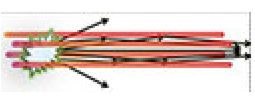
Altera Joins the Embedded Vision Alliance

Altera Corp. has joined the Embedded Vision Alliance.

Read Article >>

In this edition of the industry's **premier weekly newscast**: a drone aids photographic lighting, a sensor diagnoses diabetes, fluorescence detects Alzheimer's and molecule signatures are amplified.

'Air Waveguides' Function Like Optical Fibers



A team from the University of Maryland has discovered how to make air behave like optical fiber, guiding light beams over short distances without losing power.

Read Article >>

Nano Sensor Enhances Bomb Detection

A new plasmon laser sensor can identify extremely minute concentrations of explosives, as well as explosives that are typically difficult to detect.

Read Article >>

Drone System Aids Photographic Lighting

A small, autonomous helicopter can direct lighting just where a photographer needs it.

Read Article >>

WHITE PAPER

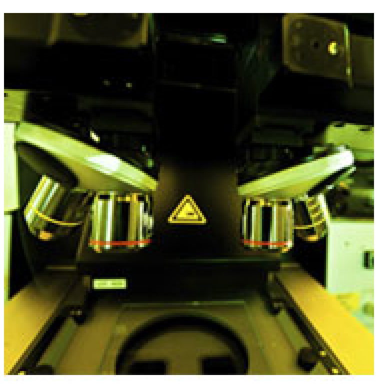
Improve Laser Diode Performance by Reducing Output Cable Inductance using Twisted Pair Cable

IXYS Colorado

The intent of this article is to provide information regarding the performance of twisted pair cable to reduce output cable inductance. The information is based in electromagnetic theory and is supported with actual measured results which apply to a subset of laser diode applications.

DOWNLOAD WHITE PAPER >>

WEBINAR



Join us for a FREE webinar: From Product to Profit

Wednesday, July 30, Noon EDT

Presented by Barbara Foster,
The Microscopy & Imaging Place, Inc.

Barbara Foster

Early-stage, user-based research can impact business development, RD&E and rapid market penetration, and this webinar will tell you how. The presentation will include:

1. Two magic numbers that can determine if your product will be profitable;
2. Early-stage, user-based market research: the how, when, why, and where;
3. Impact on business development, product profitability, and speed to market;
4. Case Studies

REGISTER NOW

Industry Events

Microscopy & Microanalysis 2014 - Aug. 3-7, 2014 · Hartford, Conn.

M&M 2014 is an annual meeting and conference for the microscopy and microanalysis industries.

The event will feature an awards presentation, as well as numerous lectures and symposiums that focus on topics such as Microscopy and Spectroscopy for Power Generation and Energy Storage, Advances in In-situ Microscopy, Extended Crystal Defects, and Carbon Nanomaterials and Related Counterparts.

More info >>

CALL FOR ARTICLES!

Photonics Media is currently seeking technical feature articles on a variety of topics for publication in our magazines (*Photonics Spectra*, *Industrial Photonics*, *BioPhotonics* and *EuroPhotonics*). Please submit an informal 100-word abstract to Managing Editor Laura Marshall at laura.marshall@photonics.com

FEATURED VIDEO

Si-Ware Systems – MEMS FT-IR Spectrometer

Si-Ware Division Manager, Bassam Saadany, talks about their Prism Award winning spectrometer. The MEMS FT-IR Spectrometer, the first alignment-free, calibration-free, and shock-resistant FT-IR module on a chip scale. The module can be integrated into a wide variety of systems for qualitative or quantitative material analysis applications in various industries including environmental, healthcare, agriculture, food and beverage, industrial, pharmaceuticals, petrochemicals, and law enforcement.

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- **Cylindrical Lenses**
- **Infrared Absorbing or Reflecting Filters**
- **Integrating Spheres**
- **Optical Coatings**
- **Simple Lenses**

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