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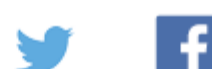
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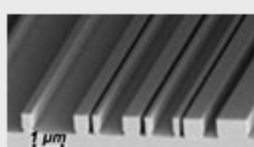
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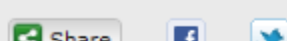
Thursday, February 26, 2015

'Flat Lens' Masters Chromatic Aberration



Overcoming a limitation of earlier flat optics, a new achromatic metasurface is able to bend different wavelengths of light by the same amount.

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IR Drone Camera Provides Bird's-Eye View of Rochester at Night (with video)

Flying 15,000 feet over downtown Rochester at night, a midwave-infrared (MWIR) sensor from Exelis captured in detail the movements of cars and pedestrians.

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Multilayer QD Solar Cells Promising for Natcore

A new breed of quantum dots (QDs) could enable multilayer solar cells that capture more of the sun's energy.

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Featured Products



Curved Displays

Abrisa Technologies
Abrisa Technologies, now offers transparent conductive ITO, photopic AR and filter coatings on 50 to 100 micron thin, flexible glass to support ultra-thin and curved display needs.

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Necsel Green Laser

Necsel
Necsel holds key patented technology to be the only worldwide provider of high power red, green and blue lasers with price points that enable the targeted display and lighting markets.

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Machine Vision Lenses

FOCtek Photonics
FOCtek provides customers with optical lens assemblies and custom-made lenses. We have developed a series of new products -- F1.2 Starlight Lenses.

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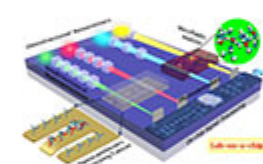
View-It® IR and UV Detectors

Kentek Corporation
Kentek's View-It® Infrared and Ultraviolet detectors feature a high-efficiency, laser-sensitive material that provides an unlimited viewing period for both pulsed and continuous wave lasers.

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Cubic Nanoantennas Eyed for NEMS Biosensors



Lab-on-a-chip applications could benefit from cubic nanoantennas that direct light more effectively than spherical ones.

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Expansion into New Markets Yields Strong Year for IPG Photonics

"We continued to expand our breadth of applications, made great strides in penetrating cutting OEMs, and improved our competitive position in the automotive market," said CEO Dr. Valentin Gapontsev. "In addition, the growth we anticipated in metal-based 3-D printing at the beginning of the year materialized. The growth in net income reflects the leverage we expected to achieve in our operating model."

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Bach Research Supplying Optics for Multiple Atmospheric Study Missions

Bach Research Corp. has completed two contracts and begun one more for optical components to be used in satellites studying the Earth's atmosphere.

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Some call it the Oscars of the photonics industry. This week on the industry's **premier weekly newscast**, we'll take you down the white carpet to the Prism Awards for Photonics Innovation.

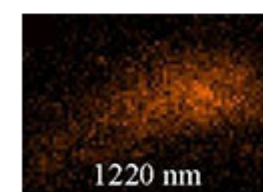
CyberOptics Looks to Break Even in 2015

Optical metrology firm CyberOptics Corp. said it expects sales growth of at least 10 percent and a break-even operating result in the year ahead after introducing new products and cutting losses in 2014.

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Model Predicts Metamaterials' Nonlinear Optical Properties



A new approach that can predict the nonlinear light scattering properties of nanostructures could help turn optical metamaterials to more practical uses.

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Neptec 3-D Lidar Sensor System Aims to Improve Mine Operations

The 3DRi Spot Assist system uses multiple lidar sensors mounted on the shovel that continuously scan the loading area.

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Industry Events

Laser Additive Manufacturing Workshop (LAM) - March 4-5, 2015 · Embassy Suites Lake Buena Vista South, Kissimmee, Fla.



The Laser Institute of America's 7th annual Laser Additive Manufacturing Workshop will bring together industry specialists, executives, users and research from around the world to show how laser additive manufacturing processes can be applied effectively and affordably to today's manufacturing challenges.

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FEATURED VIDEO



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POLARIZATION BASICS

Edmund Optics – Polarization Basics

Polarizers are optical components designed to filter, modify, or analyze the various polarization states of light. Polarizers are commonly integrated into optical systems to decrease glare or increase contrast, or for measuring changes in magnetic fields, temperature, or chemical interactions. Join Brian McCall as he discusses the types of polarization and polarizers.

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