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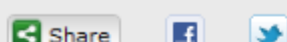
Thursday, July 17, 2014

## Nanopixels Drive Flexible, Extremely Hi-Res Displays



A recent study that delves into the electrical and optical properties of phase-change materials has unveiled a new way to develop flexible, thin-film displays with extremely high resolution and low energy consumption.

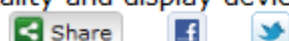
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## New Optical Component Enhances Augmented Reality Devices

A novel optical component could transform wearable augmented-reality and display devices.

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## Investors Grant LatticePower \$80M for LED Production

LED developer LatticePower Corp. recently received an \$80 million cash infusion from investment groups.

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### Products on PhotonicsBuyersGuide.com



**Labsphere's Stratosphere Software**

Stratosphere Software Labsphere, Inc. has launched its newest business venture, Stratosphere Software, as a software solutions provider for test and measurement hardware companies.

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**FLC300 Laser Diode System**

Frankfurt Laser

Frankfurt Laser introduces the FLC300 laser diode system for applications in fiber optic communications. The new system delivers fiber output power of 2mW to 300W and wavelengths ranging from 450 to 1550 nm.

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**Color Filters**

Silicon Valley

Optics Technology

Silicon Valley Optics Technology (SVOTek) manufactures angle insensitive filters which utilize the transmission and blocking characteristics of two or more color glasses.

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**Fiber Optic Oxygen Sensors**

SpectrEcology

Our oxygen sensors use the quenching of fluorescence by the collision of molecular oxygen with a fluorophore that is trapped in an oxygen permeable sol gel or polymer.

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## Telescope Images Distant, Dim Dwarf Galaxies



A ground-based telescope recently helped discover seven distant dwarf galaxies that could contain clues to the evolution of galaxies and even dark matter.

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## Lasers Used to Generate Electron Spin Currents

Ultrashort laser pulses are being used to advance research into electron spin currents, a potential field for next-generation data storage.

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## Framos Names North American President

Imaging firm the Framos Group has named a new president of its North American subsidiary, Framos Technologies Inc.

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In this edition of the industry's **premier weekly newscast**: a new process combines laser and arc welding, glass lends flexibility to organic photovoltaics, nanojuice aids intestinal imaging, and a metamaterial mirror doubles light frequency.

## Daylight Defense to Develop UV Laser for Army

Daylight Defense LLC has been selected by the U.S. Army to develop a high-power UV laser to help protect aircraft in combat.

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## Glass Lends Flexibility to Organic PVs



A new carrier substrate made from flexible, 100- $\mu$ m-thin layers of glass better protects organic solar modules and could simplify their manufacture.

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## Report: Consumer Goods to Drive IR Imaging Market

Sales of thermal imaging components in 2013 is heralding future growth and a wider customer base for the uncooled IR imaging market.

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### WHITE PAPER

## Design of Long Working Distance Graded-index Fiber Lens With a Low NA for Fiber-Optic Probe in OCT Application

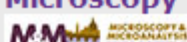
OFS

A fiber-optic probe for optical coherence tomography (OCT) applications typically includes a short section of graded index (GRIN) fiber fused onto a single-mode (SM) fiber. The GRIN fiber acts as a lens to focus the output of the SM fiber and to collect the reflected light from the sample. In this paper we will use the beam propagation method (BPM) to analyze the output beam characteristics such as beam radius and working distance, and then compare these with the measured results. With this tool we can design a GRIN fiber lens to achieve a long working distance without degrading the system performance.

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### 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.

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THE PULSE OF THE INDUSTRY

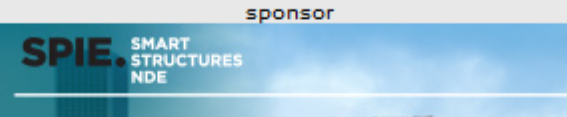


**Rick Sebastian**  
Product Manager

### 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.

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