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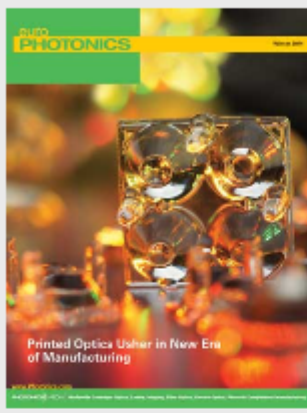
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EuroPhotonics Digital Edition - Winter 2014



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The **Winter 2014 issue** of *EuroPhotonics* includes feature articles about 3-D printed optics, carbon nanotube solar cells, faster line-scan sensors and more.

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Printed Optics Usher in New Era of Manufacturing

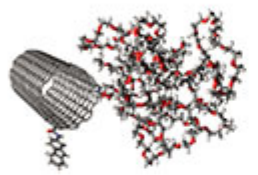


Additive manufacturing techniques are creating a new awakening in optics and photonics, and two factors that will expand this reawakening are digital computing and a new fabrication method for functional optics. Industry experts have a clear vision of 3-D printing's role in the optical market. They also have a clear picture of the main challenges that optics faces in the lighting industry. When designers can control light output and tailor it to every specific application or project, they will save energy and create far less light pollution.

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Nanotube-Based Solar Cells Make More of the Sun

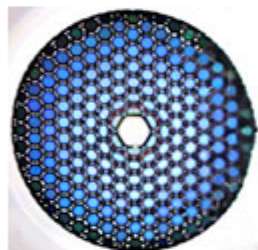


They're cheaper, lighter, flexible and easy to dispose - it's little wonder that carbon nanotubes are grabbing the attention of solar cell specialists in Europe and beyond. Since they were first discovered in 1991, carbon nanotubes have attracted great attention, thanks to their unique optical properties and versatility.

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Hollow Core Protects Optical Fibers from UV Light



A new type of optical fiber can guide UV laser light without sustaining the damage often seen in conventional fibers. Developed by a team from the Max Planck Institute and the Centre for Quantum Engineering and Space-Time Research (QUEST) at the Physical-Technical Federal Agency, the new optical fiber has a hollow core.

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High-Speed Line-Scan Sensors Improve Spectroscopy

CMOS image sensors were attractive initially because of their lower overall system costs, thanks to their higher integration level and the industry's ability to place more and smaller pixels on a standard-size chip.

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Featured Products



Goldeye SWIR Camera

Allied Vision

Technologies GmbH

Allied Vision's all-new Goldeye short-wave infrared (SWIR) camera provides best-in-class image quality through its compact, fan-less design, full 14-bit low-noise imaging and onboard image correction.

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Mid-IR Spectrometer

A.P.E Angewandte Physik & Elektronik GmbH

The upgraded waveScan spectrometer by Angewandte Physik & Elektronik is designed for the mid-infrared range, from 1.5 to 6.3 μm .

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WHITE PAPER



UV Curing of Fiber Optic Coating

Lumen Dynamics (Excelitas Technologies)

Current optical fiber manufacturing processes use UV lamp systems for curing protective coatings to the glass fiber. These systems suffer from low efficiency, high maintenance costs and environmental concerns. UV LED curing systems provide a compelling alternative because of their high efficiency, long lifetime, and low cost of operation. OmniCure® AC Series UV LED systems include custom front-end optics for a high irradiance, highly focused beam to optimize the curing process. Learn how a fiber curing process can benefit from an OmniCure UV LED system with custom focusing lens.

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Industry Events

Opening Ceremony of the International year of Light and Light-Based Technologies 2015

January 19-20, 2015 · Paris, France



International Year of Light 2015

This International Year has been the initiative of a large consortium of scientific bodies together with UNESCO, and will bring together many different stakeholders including scientific societies and unions, educational institutions, technology platforms, non-profit organizations and private sector partners. In proclaiming an International Year focusing on the topic of light science and its applications, the United Nations has recognized the importance of raising global awareness about how light-based technologies promote sustainable development and provide solutions to global challenges in energy, education, agriculture and health.

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