

PHOTONICS spectra



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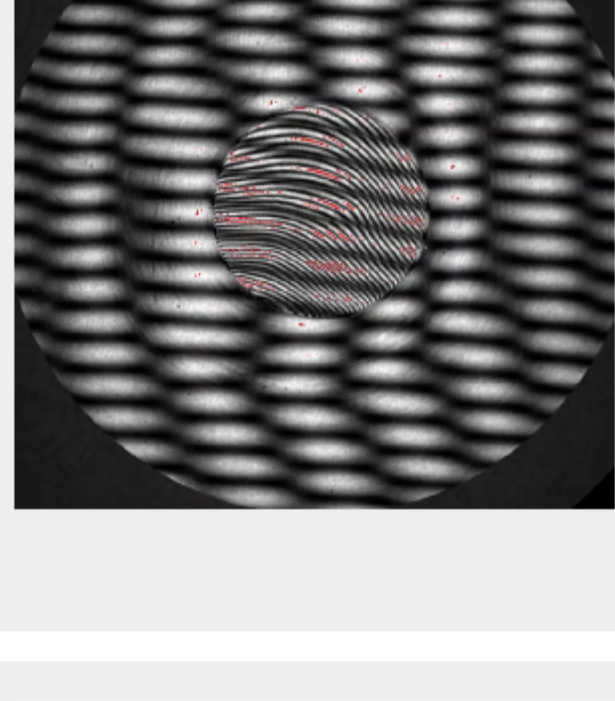
3-7 March 2019

SAN DIEGO, CALIFORNIA, USA

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Measuring Optics with Spectrally Controlled Interferometry

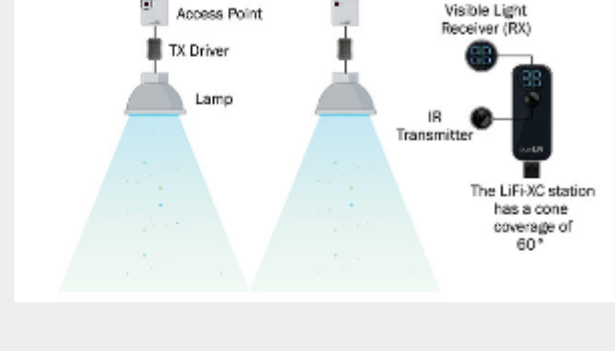
Interferometer and prismatic optics with a traditional laser interferometer is difficult to impossible. Optical engineers, scientists, and technicians struggle to obtain accurate measurements on optics with two or more flat and parallel optical surfaces because of mutually interfering back reflections. This mutual interference can degrade or hinder measurement, making it difficult to tell whether a part meets specification.



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Li-Fi Adds Data to Light the Way

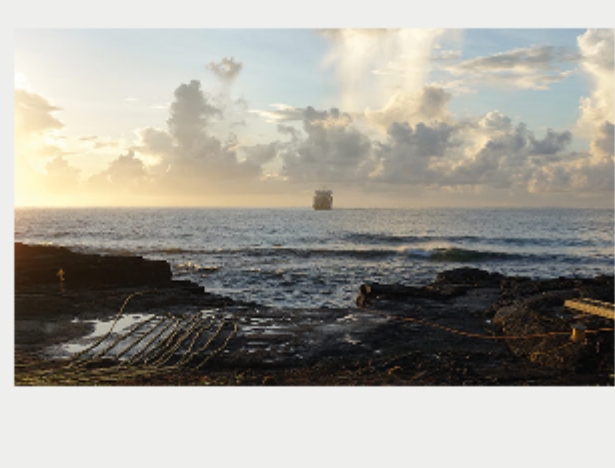
Light fidelity, or Li-Fi, is a visible light communication (VLC) system first introduced in 2011 by Harald Haas, a researcher from the University of Edinburgh. The system utilizes LEDs, which emit visible spectrum light with brightness — so quickly that the light pulses go undetected by the human eye. Thus, users benefit from the seemingly unflinching illumination of Li-Fi-enabled LED light bulbs, while data is simultaneously transmitted at speeds potentially faster than Wi-Fi.



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Data Needs Drive Underwater Fiber Developments

Data traffic will nearly double in the next three years, according to analysts. Many bits will travel between data centers over land, and many will make the long journey across the ocean, moving through fiber optic cables that sit on the seafloor. An estimated 1.2 million km of submarine fiber is in use today. Government statistics indicate that nearly all international data traffic, perhaps as much as 99 percent, travels via submarine cable, with satellite transmissions making up the rest. Submarine fiber cables are more economical for moving data than satellites.



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Featured Products



Micro Injection Molding

Accumold
Accumold® is a high-tech manufacturer of precision micro, small and lead frame injection molded plastic components. Utilizing processes developed from Accumold's Micro-Mold® technology, the company designs, builds and produces unique molds and parts efficiently for markets that include Micro Electronics, Medical, Micro Optics, Automotive, and Military Applications.

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Meridian® FLEX Camera Testing Platform (Patent Pending)

Optikos Corporation
The Meridian FLEX platform provides camera manufacturers and integrators with a powerful tool that's flexible enough for the R&D lab and fast enough for production camera testing. At its heart is a high-speed high-precision robot that can place a target at any specified field point in a variety of different instrument configurations.

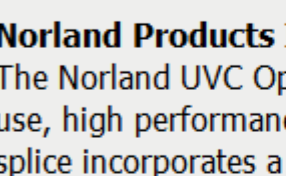
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High Performance Filters for Machine Vision

Chroma Technology Corp.
ContrastMax filters from Chroma feature sputtered interference coatings engineered for automated vision applications like machine vision and robotic guidance. These optical filters offer superior levels of contrast and blocking of unwanted light, while also performing well at wide viewing angles.

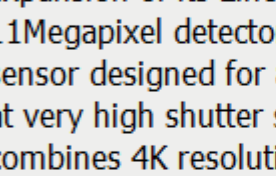
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Norland Optical Splice - Easy To Use!

Norland Products Inc.
The Norland UVC Optical Splice is the first really easy to use, high performance connection for optical fibers. This splice incorporates a precision TRW glass alignment guide and a proactive glass sleeve in a unique one piece design that minimizes handling of bare fiber.

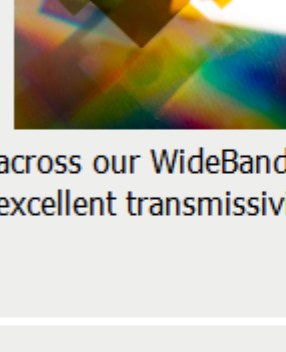
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Lince 11M Sensor for High-speed Applications

Teledyne e2v (UK) Ltd.
Teledyne e2v announces the expansion of its Lince family of image sensors with a new 11Megapixel detector. Lince11M is a new CMOS image sensor designed for applications that require 4K resolution at very high shutter speed. This standard sensor uniquely combines 4K resolution at 710 fps in APS-C format.

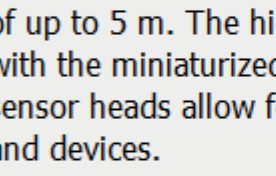
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Polarcor™ 0.12mm

Corning Incorporated, Advanced Optics
Polarcor™ 0.12mm thin polarizers capitalize on the market leading performance of Polarcor™ in a new thinner format. Polarcor™ 0.12mm polarizers offers 50dB contrast ratio across our WideBand bandwidth (1275-1635nm) with excellent transmissivity.

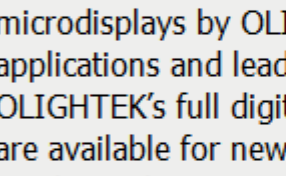
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IDS3010 - Displacement Measuring Interferometer

attocube systems AG
The fiber-based IDS3010 measures displacements with a picometer resolution over distances of up to 5 m. The high level of modularity in combination with the miniaturized design of the controller and the sensor heads allow for easy integration in existing systems and devices.

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Full Digital High Definition OLED Microdisplay

Yunnan OLIGHTEK Opto-Electronic Technology Co. Ltd.
The prominent high-definition OLED full digital microdisplays by OLIGHTEK profoundly widen near-to-eye applications and lead the way in near-to-eye technology. OLIGHTEK's full digital high-definition OLED microdisplays are available for new applications in markets such as: High resolution human medical field, Virtual world and simulation training...

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In Case You Missed It

Next-Gen Semi Materials Could Be a Boost for Photovoltaics, Lighting

Next-generation semiconducting materials have the potential to transform lighting technology and photovoltaics, suggest researchers from Georgia Tech, in a study of the unusual physics behind hybrid semiconductors.



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Pure Graphene Generates Photocurrent Over Great Distances for Ultra-Efficient Energy Flow

Researchers fabricated graphene with no impurities (pristine graphene) into different geometric shapes, connecting narrow ribbons and crosses of graphene to rectangular regions of the material.

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New Additive Manufacturing Method Uses Light to Prevent Resin From Curing Against Vat

A new approach to 3D printing uses two-color irradiation of resin formulations that contain both a photoinitiator and a photoinhibitor to perform vat-printing up to 100 times faster than conventional 3D printing processes.

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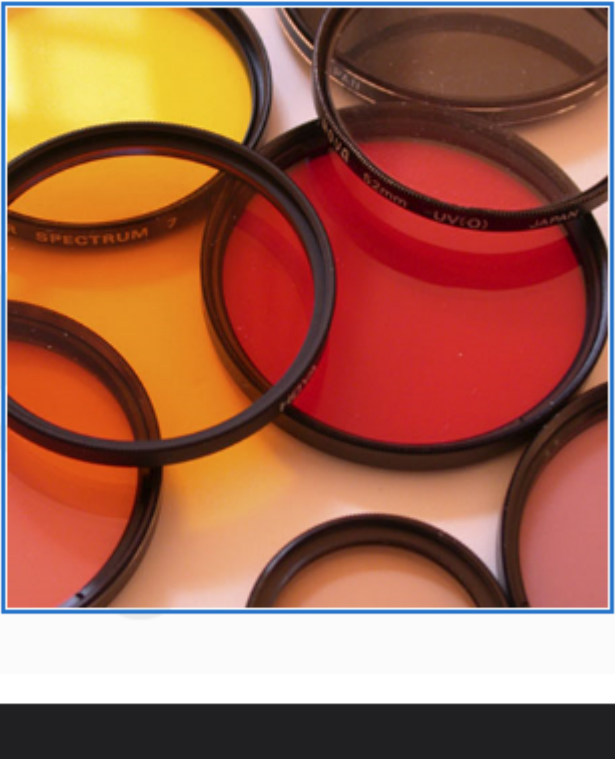
New Resources Added
Always Open
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Webinars

A Bird's-Eye View of AR Coatings, from Concept Through Production

Tue, Mar 12, 2019 1:00 PM - 2:00 PM EDT

This webinar will present the concepts and design principles of antireflection (AR) coatings, the most common optical thin-film coating produced today and for more than 80 years. It will discuss the equipment used in AR coating production and the process aspects of AR coatings. Many other types of coatings have evolved from these same principles, equipment, and processes, and these will be touched on briefly, but the focus of the webinar will be on AR coatings. The webinar is sponsored by North American Coating Laboratories and Satisloh GmbH.



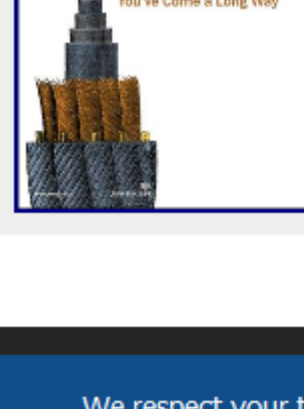
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Coming in March...

Features
Micro LEDs, Aspheres, Spectroscopy and Cannabis, Mid-IR Sensors, Test & Measurement

Photonics Media is currently seeking technical feature articles on a variety of topics for publication in our magazine *Photonics Spectra*. Please submit an informal 100-word abstract to Susan Petrie, Senior Editor, at Susan.Petrie@Photonics.com, or use our online submission form www.photonics.com/submitfeature.aspx.

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