Wednesday, February 14, 2018 PHOTONICS









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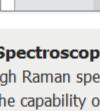
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spectra

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Monthly newsletter from the editors of Photonics Spectra, with features, popular topics, new products, and what's coming in the next issue.

expands the capability of Raman spectroscopy to measure samples



Raman Spectroscopy Peers Through Packaging See-through Raman spectroscopy (STRaman), developed in 2016,

WIDEBAND OPTICAL MODULATOR

AND DETECTOR CHARACTERIZATION



the deeper layers, thereby increasing the effective sampling depth, and allows the measurement of material inside visually opaque containers. Read Article

beneath diffusely scattering packaging material. The system is designed to have a much larger sampling area than the confocal approach. This design enhances the relative intensity of the signal from

Diffractive Optical Elements: Minimizing Zero Order Over the years, diffractive optics have evolved into an effective way of beam shaping and splitting. Their advantages over refractive optics are well known; they're lightweight and compact and can be integrated easily into optical systems. They also can perform several optical functions in a single element. Recent advances in DOEs have made

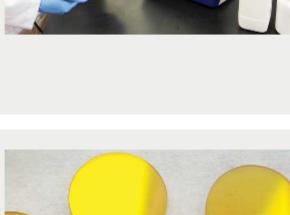
them a standard component in laser material processing, medical and aesthetic lasers, and structured light projection systems. Read Article (4) (in (5)

second quantum revolution where technologies that rely on quantum

superposition and quantum entanglement will emerge. Thanks to

components, new possibilities have been unlocked for quantum

smaller components, including lasers, photonics and optics



New Frontier for Quantum Sensing Quantum mechanics — an idea that started with Planck, Einstein and Heisenberg more than 100 years ago — gave us a better understanding of the nature of matter and light. It resulted in the first quantum revolution, which yielded the laser and the transistor. Today, experts predict that we are on the verge of a

Platform Optikos Corporation

sensing.



a target at any specified field point in a variety of configurations—making it flexible enough for R&D, and rapid enough for production camera testing. Visit Website

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.

Accumold Accumold® is a high-tech manufacturer of precision micro,

Micro Injection Molding

The Meridian® FLEX Platform is

high-precision robot that can place

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designed around a high-speed,

Gould Fiber Optics Three Decades of Innovative Components for Fiber Optics.. Gould Fiber Optics, a leading manufacturer of passive fiber optic products, with over 30 years of proven reliability as a leader in the research, development and

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Teledyne e2v (UK) Ltd.

manufacturing of fiber optic components and integrated

assembly solutions has expanded its component lines.

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Broadband Fiber Optic

Components and Modules

the high-resolution ELiiXA+ trilinear color range. These new 8k pixel cameras are ideal for industrial applications that



Teledyne e2v announces its next

generation of line-scan cameras -

Cobolt AB, a part of HÜBNER Photonics, proudly market releases the Cobolt Skyra™, a revolutionary multi-line laser platform. With up to 4 wavelengths permanently aligned in a single compact package (70 x 134 x 38 mm) and requiring no external electronics, the

Cobolt Skyra[™] will enable the next generation of compact

and easy-to-use analytical instrumentation for the life

science market.

require high color resolution and image sharpness such as

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print, label, textile, electronic and PCB inspection.

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Optical interested in the methods, materials Fabrication | and measurement techniques used in modern lens and optical component manufacturing. The

book will serve as an introduction or update, moving

beyond methods and materials to design and complex modern applications. Also included are a handy list of

useful tables and a dictionary of terms used in the book.

line Laser Cobolt AB

Cobolt Skyra™: The New Multi-

Photonics Media Optical Fabrication is a new book for anyone working on or

sponsors Meridian® FLEX Camera Testing Platform Optikos

Researchers Make Transparent Materials Absorb Light

a completely transparent material appear perfectly light-absorbing. The

New! High-speed high precision robotics for R&D or production testing of short focal length, small aperture cameras.

In Case You Missed It

absorbing qualities.

for seismic monitoring.

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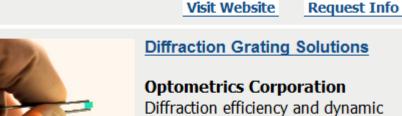
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results of their research contradict the idea that materials that look transparent, such as glass, appear that way because they have no light-



particular reflective or transmission diffraction grating may

have small yet necessary performance differentiation for

instrument optimization success can be critical.

Contrast Max

range are critical parameters in

many spectrometric instrument

designs. Understanding why a

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It's All About the Contrast

High Brightness Fiber-coupled

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New high power and brightness

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Anritsu Co.

The Optical Spectrum Analyzer MS9740A reduces the total

time from waveform sweeping to data transfer to external

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offers high-speed measurements to support the needs of

analyzer covering 600 nm to 1750 nm. The MS9740A

control equipment and supports simple analysis

device and component manufacturers.

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fiber-coupled diode lasers at 915nm and 976nm provide

fiber and up to 210W from a single 200µm/0.22NA fiber.

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diode laser at 976nm reaches max.

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Combined Spectrometer /

Time-resolved fluorescence

spectroscopy is a spectroscopist's

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Webinars Smart Cameras: Technology and Applications

Tue, Mar 13, 2018 1:00 PM - 2:00 PM EDT

Coming in March...

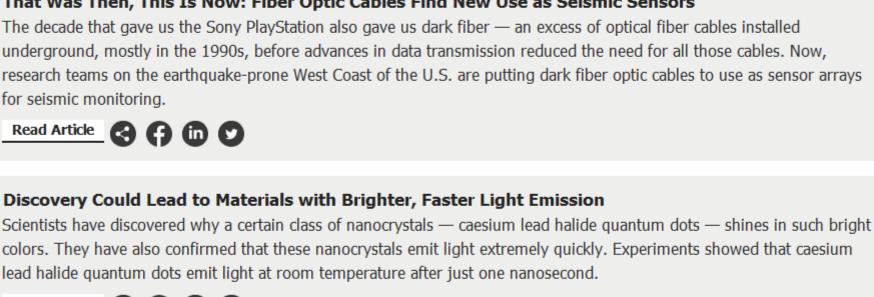
Features

Issue Bonus

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The Fiber Optics Issue

The capabilities of smart cameras have increased dramatically over the past few years. This webinar will explore the characteristics of today's smart cameras, typical applications, and how to ensure that you select the camera that best meets your needs. You will learn how smart cameras can be used to solve unique machine vision requirements and how they can reduce the overall cost of a machine vision application.



Manufacturing is changing dramatically. Who's ready to work?

Solid-State Lasers; Mid-IR Spectroscopy; Fiber Optics for Telecom/Data; Hyperspectral Imaging; Lens Measurement

About Photonics Spectra

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Aries. Based on the proven design and performance of the OL 770, the Aries offers an array of enhanced capabilities, including WiFi and Ethernet connectivity for easy

> most valuable tool for the investigation of excited state dynamics in molecules, complexes, or semi-conductors.

microscope.

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