

PHOTONICS spectra



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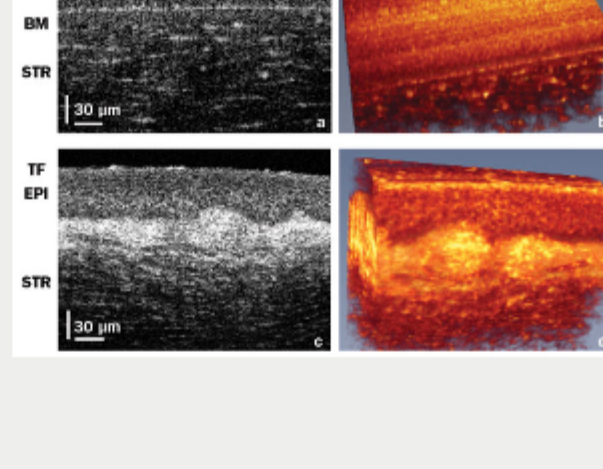
STABILIZING THE LINE OF SIGHT

By Peter J. Kennedy and Rhonda L. Kennedy
A methodology and an example for executing a successful end-to-end line-of-sight pointing design.

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Advances in Optical Coherence Tomography

Optical coherence tomography (OCT) is a high-resolution, three-dimensional, noninvasive imaging technique. It is often called an optical ultrasound because it relies on time-of-flight information, similar to ultrasound imaging, to obtain subsurface information. The success of this technique has been fueled by a unique combination of technical and commercial factors, which include major investment in lasers, optical fibers, and sensors for telecommunications. That OCT is benefitting from these advances is proven in its applications across the health care industry.



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Improving Additive Manufacturing with IR Cameras

3D printing is revolutionizing manufacturing. Also known as additive manufacturing (AM), 3D printing uses computerized or digital models to generate simple parts and complex components. By studying the printing process and its thermal properties with IR cameras, manufacturers have been able to make quick corrections with minimal production delays. IR cameras, whether traditional or high-speed, can assist in the discovery and diagnosis of potential problems, and can help manufacturers determine where changes must be implemented to maintain product uniformity and quality.



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Optical Components Pushed to Precision, Tolerance Limits

From materials processing and automotive industries to next-generation inspection of semiconductors and laser surgery, the demand for high performance optical components has never been greater. The rise in low-price, high-power lasers is opening up new avenues in manufacturing and the life sciences, which sets some tough challenges for optical component makers to overcome.



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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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LensCheck™ Quality Control System

Optikos Corporation
Optikos is pleased to offer this compact, efficient, easy-to-use quality control tool. The LensCheck™ instrument is a cost-effective solution to your production and prototype lens qualification needs, and provides portable and precise measurements for VIS/NIR, SWIR and LWIR applications.

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Pulsed UV Light System

Xenon Corporation
Since its introduction in January 2017, XENON's X-1100 High-Intensity, Pulsed Light system has been sold to 50+ research laboratories worldwide! Researchers and scientists spanning The Americas, Europe, Asia, are using this system for numerous markets and in Printed Electronics, Food Safety and semiconductor applications.

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i-SPEED 5 Series from iX Cameras

iX Cameras Inc.
The i-SPEED 5 is the first mid-range camera line from iX Cameras. Designed with value in mind, the Series strikes the perfect balance between speed, size, and memory. With a full HD sensor running at 13 GPx/second, the i-SPEED 5 Series has plenty of power for laboratories, research, and test range applications.

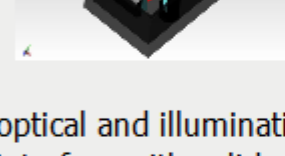
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Snappy 2M CMOS Image Sensor for High-speed Scanning

Teledyne e2v (UK) Ltd.
Teledyne e2v, announces Snappy 2 megapixel, a new CMOS image sensor designed for barcode reading and other 2D scanning applications. The sensor uniquely combines full HD resolution, a 2.8μm low-noise global shutter and advanced features for fast and economic decoding, all within a small optical format.

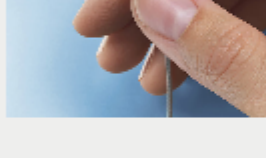
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TracePro Virtual Prototyping

Lambda Research Corp.
TracePro software for design, analysis, and virtual prototyping of optical and illumination systems combines a graphical user interface with solid modeling, Monte Carlo ray tracing, analysis features, CAD import/export, and optimization methods. A complete and robust macro language rounds out the software...

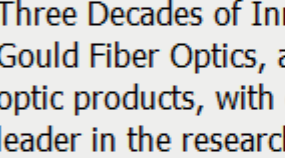
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Imaging and Illumination Solutions

FISBA AG
Capturing high precision images in the field of minimally invasive surgery and point-of-care diagnostics requires a perfectly clean component surface as well as centering accuracy. The FISBA FISCam™ is a customizable micro camera, offering outstanding optical performance with high-resolution 400 x 400-pixel images and video at 30 fps.

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Broadband Fiber Optic Components and Modules

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 manufacturing of fiber optic components and integrated assembly solutions has expanded its component lines.

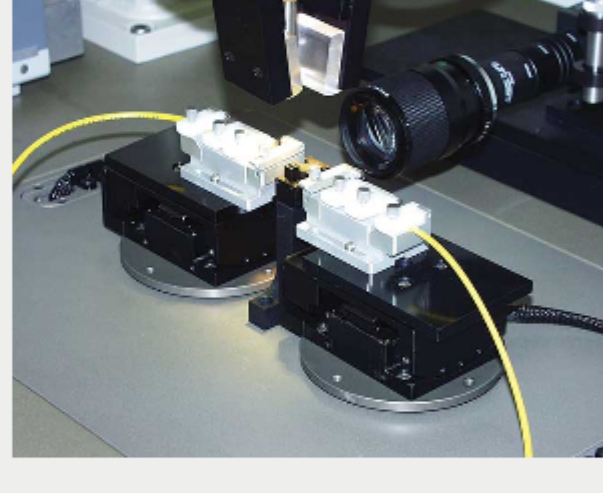
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In Case You Missed It

Nanometer-Scale Automation for Optical Device Manufacturing

Applying nanometer technologies to mass production requires attention to tolerance, environment, and equipment capabilities.



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Bowtie Photonic Crystal Allows Extreme Light Concentration with Low Loss

A new nanostructure that is a bowtie and part funnel has been shown to focus and conduct light powerfully and nearly indefinitely, as measured by a scanning near-field optical microscope.

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A Silicon Chip Is Engineered for Quantum Information Processing

An international team led by the University of Bristol has demonstrated the capability to control two qubits of information within a single silicon chip. This programmable two-qubit quantum processor could be used as a tool to perform quantum information experiments and could facilitate the use of silicon photonics for future photonic quantum processors.

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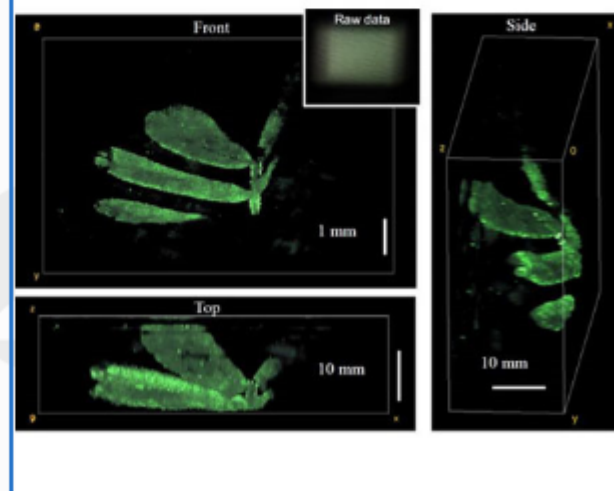
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Webinars

Computational Imaging: Using Hardware and Software Together to Design High-Resolution, Light-Efficient Imaging Systems

Tue, Oct 16, 2018 1:00 PM - 2:00 PM EDT

This webinar will discuss computational imaging - a new generation of cameras that integrates computers as part of an imaging system. In computational imaging works and discuss its capabilities, such as 3D image acquisition, and its advantages. She will introduce the compact, lensless computational camera built by her lab, called DiffuserCam, which uses an algorithm to reconstruct 3D images computationally. Waller will also discuss applications for computational imaging, including microscopy and phase imaging for biological samples and industrial applications such as lithography.



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Features

Fiber Lasers, Optical Filters, Microfabrication, Positioning/Vibration Isolation Equipment, LIGO Update

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 Managing Editor Mike Wheeler at michael.wheeler@photonics.com or use our online submission form www.photonics.com/submitfeature.aspx.

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