

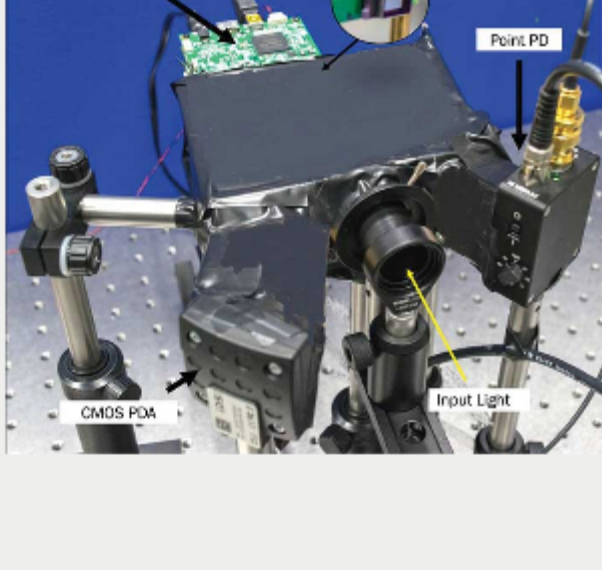
PHOTONICS spectra



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

CAOS Smart Camera Captures Targets in Extreme Contrast Scenarios

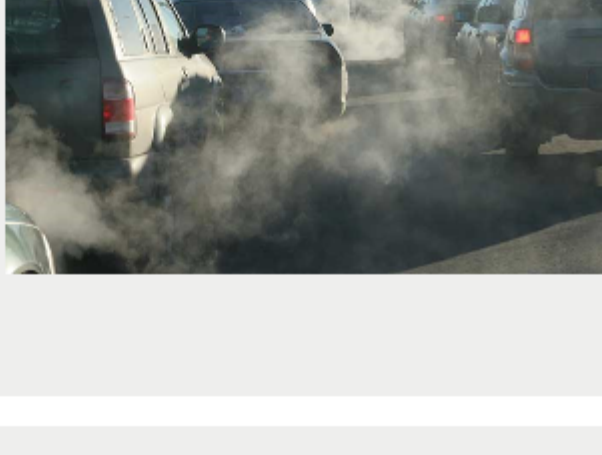
A new camera technology working in unison with CMOS sensors smartly extracts extreme scene contrast pixel light intensity information using time-frequency coding of selected agile pixels. Imaging electromagnetic radiation is of fundamental importance to a number of fields, from medicine and the biological sciences, to security and defense.



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Compact UVC Laser Shows Promise for Biomedical and Environmental Sensing

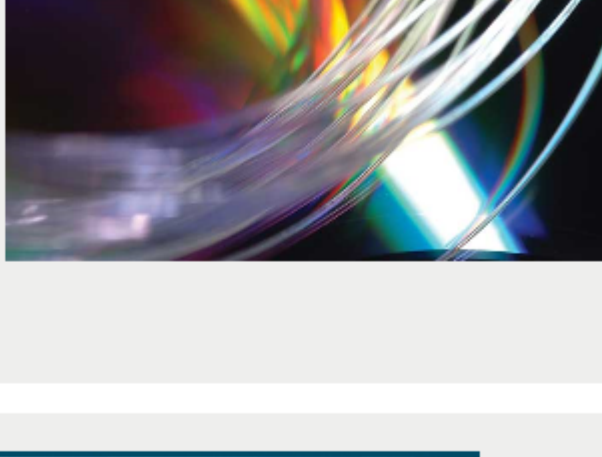
Advances in sensor technologies and the more widespread deployment of sensors are continually improving safety, quality of life and industrial productivity. Many of the most reliable chemical, biological and gas sensors are in some way based on light, with current technology exploiting wavelengths from deep ultraviolet to far infrared.



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For Optical Fiber, More Bandwidth Looms

Engineering improvements to fiber, as well as enhancements to detectors and sources, aim to improve capacity for long-haul networks and data centers. The world's data travels largely by fiber, with more being moved than ever before. San Jose, Calif.-based networking giant Cisco Systems forecasts that data traffic will grow 22 percent a year from 2015 to 2020.



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Test drive the LensCheck™ system for production and prototype lens testing.

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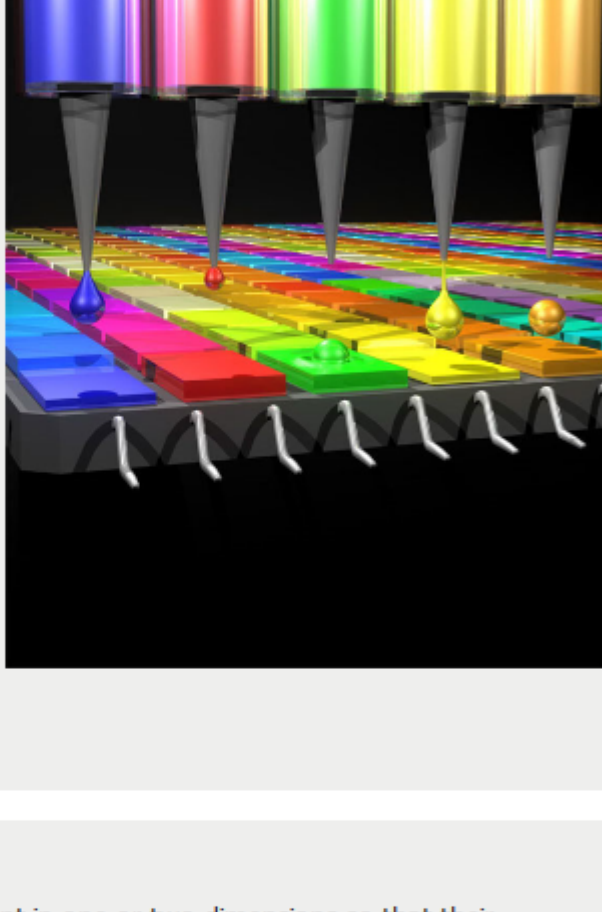
FLEX PIVOT FRICTIONLESS BEARINGS

A flexure based bearing, utilizing internal flat crossed springs, capsuled in a cylindrical housing.

In Case You Missed It

Quantum Dot Spectrometer in Development for Use in Space

A prototype of an imaging spectrometer based on quantum-dot technology could miniaturize and potentially revolutionize space-based spectrometers, particularly those used on uninhabited aerial vehicles and small satellites.



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Graphene Alignment Technique Holds Promise for Nanophotonics

Nanomaterials, such as nano wires and nanotubes, are designed to have quantum confinement in one or two dimensions so that their properties in other dimensions can be engineered, differing from that of their corresponding bulk material.

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Smartphone Microscope Images and Detects Next-Generation DNA Sequencing Reactions

A novel smartphone-based microscope could make DNA sequence analysis much easier, faster and more readily accessible in remote locations.

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Featured Products

Pivot Bearings

C-Flex Bearing Co. Inc.

The C-Flex bearing or pivot is a cylindrical, limited rotational bearing, with a high relative radial and axial stiffness which is available in low, medium, or high torsional spring rates. It is typically available for maximum deflection angles of +/-30°, but various configurations are supplied upon request.

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LensCheck™ Quality Control System

Optikos Corporation

Optikos, the leader in optically-based design, metrology products and IQ Lab™ services, 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.

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FIP Fast Imaging Photometer

Gooch & Housego Orlando

The Fast Imaging Photometer (FIP) is an ultra-high speed imaging photometer that is ideal for aerospace, defense, automotive and lighting applications.

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PhaseCam 6000 Dynamic Laser Interferometer

4D Technology Corporation

The PhaseCam® 6000 is an extremely compact and lightweight laser interferometer for measurement of optics and optical systems with an easy-to-position, fiber-coupled measurement head and motorized controls.

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Ultraviolet Helium Cadmium Lasers

Kimmon Koha USA Inc.

Kimmon Koha, the world leader in Helium Cadmium lasers, manufactures a full line of ultraviolet (325nm) HeCd lasers for use in a wide variety of applications.

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Cobolt Skyra™: The New Multi-line Laser

Cobolt AB

Cobolt AB proudly introduces the Cobolt Skyra™, a revolutionary multi-line laser platform. Offers up to 4 laser lines in a box that can fit into the palm of your hand (70 x 134 x 38 mm) and requires no external electronics.

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The New 2017 Photonics Buyers' Guide is now available!

Photonics Media

If you buy products and services related to lasers, optics, imaging, sensors, detectors, test and measurement, light sources, fiber optics, spectroscopy, materials and coatings -- you need the Photonics Buyers' Guide.

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Spectralon® EPV Diffuse Reflectance Material

Labsphere Inc., Photonics

In recent years, more and more applications have arisen on the terrestrial scene requiring a great diffuse reflector with a level of purity driven by extreme energy levels or special environments.

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Webinars

Technology Business Champions' Guide to Successful Commercialization

Thu, April 13, 2017 1:00 PM - 2:30 PM EDT

This webinar is for scientists, engineers and others interested in developing and commercializing photonics and other technologies. You will learn about successful commercialization and how to recognize it, how to develop innovative technologies and guard your intellectual property gold. Instructor David Krohn is the Managing Partner of Light Wave Venture LLC, a company focused on developing photonics opportunities in a broad range of markets. Drawing on his extensive experience in business development and commercialization, Krohn designed the Commercialization of Innovative Technology through Entrepreneurship (CITE) methodology to be applied to all forms of technology. His entire 12-course CITE lecture series is available from the Photonics Media store. Webinar attendees will receive a coupon for \$20 off the price of Krohn's entire 12-course series.



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Coming in April...

Features

The Defense Issue; IR Imaging UAVs; Environmental, Chemical and Biological Sensing; Augmented & Virtual Reality

Issue Bonus

SPIE Defense + Commercial Sensing Insider's Guide

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 mike.wheeler@photonics.com or use our online submission form www.photonics.com/submitfeature.aspx.

About Photonics Spectra



Since 1967, *Photonics Spectra* magazine has defined the science and industry of photonics, providing both technical and practical information for every aspect of the global industry and promoting an international dialogue among the engineers, scientists and end users who develop, commercialize and buy photonics products.

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