

# PHOTONICS spectra



Monthly newsletter from the editors of Photonics Spectra, with features, popular topics, new products, and what's coming in the next issue. Manage your Photonics Media membership at [Photonics.com/subscribe](http://Photonics.com/subscribe).

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**The New Collar Workforce**  
by Sarah Boisvert

An Insider's Guide to Making Impactful Change in Manufacturing and Training

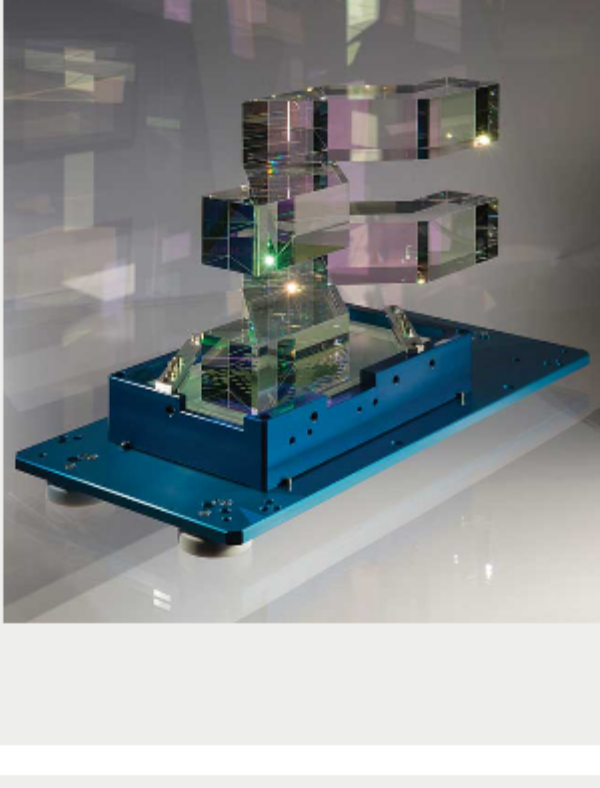
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**Manufacturing**  
is changing dramatically.

**Who's ready to work?**

### Innovations in Lens Measurement

Automobile cameras, telescopes, head-mounted displays, laser-focusing heads and other modern photonic devices incorporate high-grade optics that can perform under extreme environmental conditions. The demand for such lenses means they must be reproduced with the utmost accuracy, placing stringent requirements on lens measurement.



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### Sensor Balancing Act for UAVs

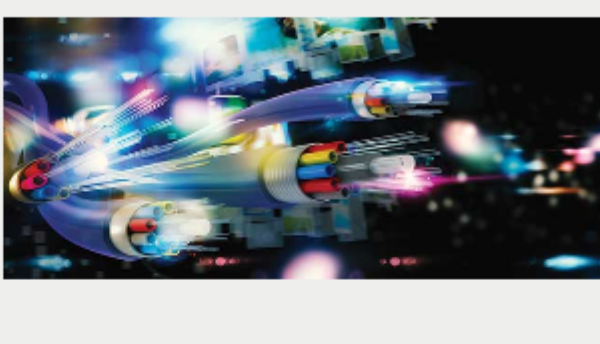
Spectral imaging sensors, lidar, and a thermal or RGB camera are often integrated into one airborne package to best acquire streams of information about the surrounding environment. Spectral imaging sensors include multispectral and hyperspectral, with the former providing a small number of wide bands (sometimes with gaps in between) and the latter providing hundreds of contiguous narrow bands. The more bands of spectral data the sensor collects, the more accurate the decision-making becomes.



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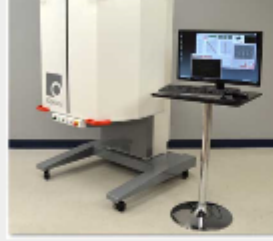
### Getting More Out of Telecom Fiber

The rising amount of data generated by people and machines around the world travels largely by fiber, with some of it moving thousands of miles in a hop. For some long jumps, new ultralow-loss, large effective area fiber is going into the ground and under the sea, leading to higher performance. There also are new signaling modulations and other innovations, all aimed at boosting bandwidth and cutting the cost of moving data.



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## Featured Products

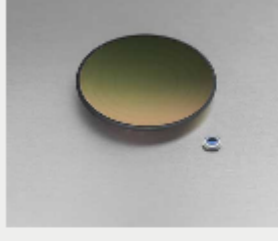


### Meridian® FLEX Camera Testing Platform

**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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### Precision Molded Infrared Glass Optics

**FISBA LLC**

Infrared optics are essential for many defense and security applications such as low-light imaging, thermal imaging, IR

sensing, and more. FISBA's North American production facility in Tucson, Arizona, specializes in high precision components in the SWIR, MWIR and LWIR, including aspheric and diffractive optics molded from chalcogenide glass.

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### The Aries Spectroradiometer

**Gooch & Housego Orlando**  
We are proud to introduce our next generation spectroradiometer, the

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 integration into production environments.

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### Next Generation of Trilinear Line-Scan Cameras

**Teledyne e2v (UK) Ltd.**

Teledyne e2v announces its next generation of line-scan cameras - the high-resolution ELiIXA+ trilinear color range. These new 8k pixel

cameras are ideal for industrial applications that require high color resolution and image sharpness such as print, label, textile, electronic and PCB inspection.

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### Optical Fabrication

**Photonics Media**

Optical Fabrication is a new book for anyone working on or interested in the methods, materials 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.

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### ContrastMax

### 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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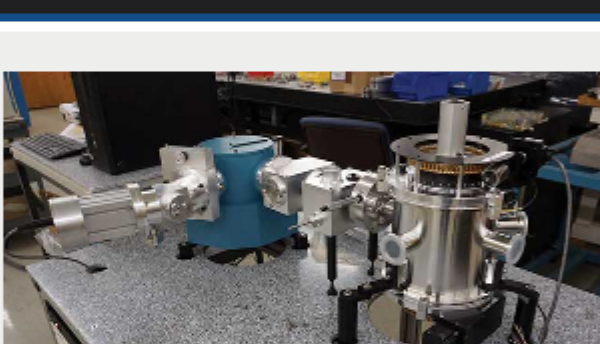
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## In Case You Missed It

### Measuring Diffraction Grating Efficiency

A novel spectral test station can assess diffraction grating efficiency at specific wavelengths by simultaneously indexing incident wavelength and the unit being tested.



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### NSF Awards WPI \$425K for Autonomous Vehicle Research

With a three-year, \$425,000 award from the National Science Foundation (NSF), two researchers at Worcester Polytechnic Institute (WPI) are combining their work to find the key to developing self-driving cars that can operate safely and efficiently, even in complex city environments.

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### NASA Begins Work on WFIRST Telescope, a Hubble Cousin

NASA is beginning to design a space telescope that will provide the largest picture of the universe ever seen with the same depth and clarity as the Hubble Space Telescope.

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**Optatec**

International trade fair for optical technologies, components and systems

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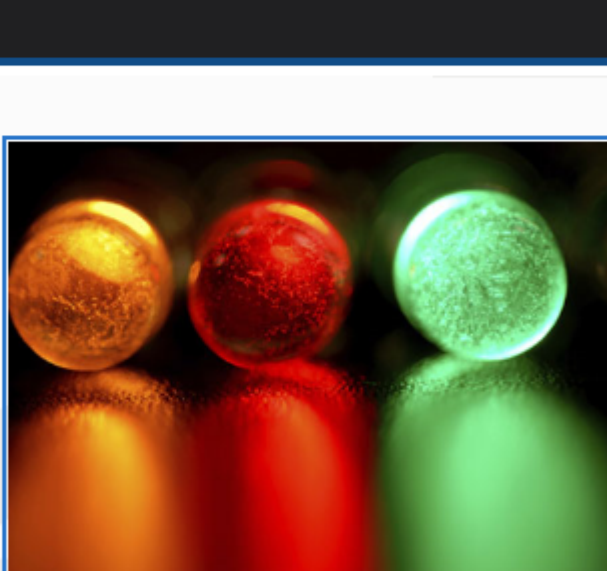
## Webinars

### Optics and Lighting Solutions for Machine Vision

Tue, Mar 20, 2018 1:00 PM - 2:00 PM EDT

A crucial first step in any good machine vision application is developing the right optics and lighting for the application. This webinar will address the basic principles and methods of machine vision optics and lighting and review advances in methods and components that have made machine vision easier to implement in recent years. Sponsored by Smart Vision Lights and Euresys S.A. and Chroma Technology.

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## Coming in April...

### Features

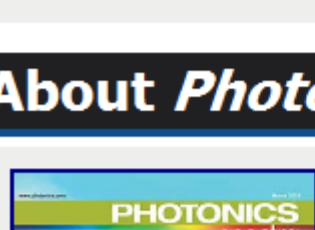
Lasers in Defense; Remote Sensing; Drone-Based IR Imaging; Optics in Defense; Laser-Induced Breakdown Spectroscopy for Standoff Detection

### Issue Bonus

Defense and Commercial Sensing 2018 Preview & Promotion

**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](mailto:michael.wheeler@photonics.com) or use our online submission form [www.photonics.com/submitfeature.aspx](http://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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