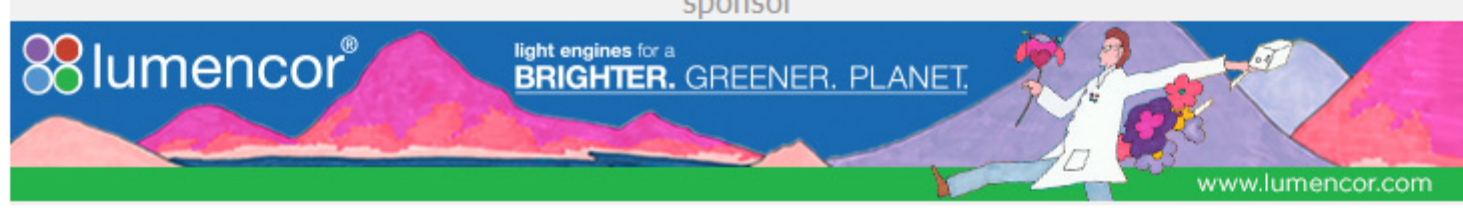


# euro PHOTONICS



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## Application-Specific Machine Vision Simplifies Aircraft Maintenance

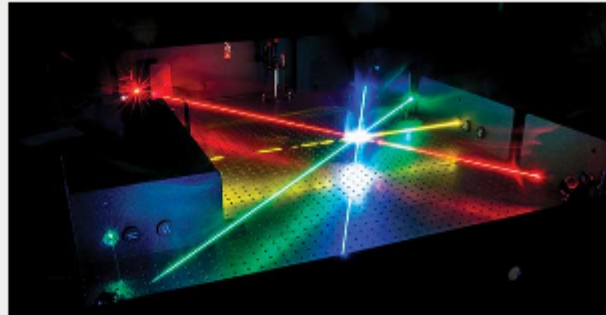
Machine vision systems, however automated, do not exist in isolation. They must augment and intelligently interact with human operators. Workflows can benefit from 3D optical vision systems. In particular, vision systems technology shows significant promise to improve aircraft inspection efficiency while providing operators with a better understanding of airframe integrity and safety. However, to deliver these gains to an airline's bottom line, the vision system must coexist with and empower the technician/engineer.



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## Tunable Laser Light Sources Advance Nanophotonics Research

A considerable part of contemporary photonics research that investigates the interaction of light with nanoscale objects — nanophotonics — is motivated by the commercial potential of real-world devices. A vast number of experimental studies call for high-quality, CW laser light that is tunable throughout the visible spectrum, but it is not straightforward to cover this region with most common tunable laser designs. Alternative sources based on CW OPO technology have become commercially available relatively recently and are quickly gaining popularity.



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## Optics Tools Advance in New Forms with Space Exploration

With a new generation of large telescopes comes new challenges for optics. Some mirrors, for instance, must be large but flexible to perform wavefront correction and make the images as clear as possible. The shape of future optics will be different from that of past telescopes, thanks to significant deviations from spherical curves. This improves performance but can make manufacturing and measurement challenging. These new telescopes also require mass production of precisely manufactured components.



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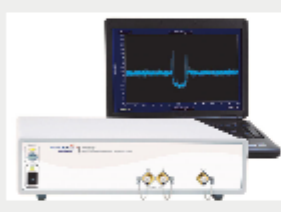


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## Featured Products



### Optical Coherence Domain Reflectometer

**General Photonics Corp.**  
InsideView™ is an optical coherence domain reflectometer (OCDR-1000) designed to obtain space-resolved reflection information inside a fiber optical component, such as a Photonics Integrated Circuit (PIC), for diagnosing quality or design issues. It is based on a polarization optimized white light interferometer proprietary to General Photonics.

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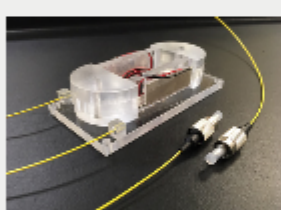


### It Just Keeps Getting Better...

**Lumencor Inc.**  
Lumencor's new SOLA SE nIR Light Engine with added Cy7 excitation.

- Breadth: UV + visible + nIR light: 350–760 nm
- Brightness: ~ 4.0 W optical output
- Control: Light on/off and graduated intensities
- Ease: No maintenance, no consumables, mercury-free

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### Piezo-electric Fiber Stretcher

**Evanescent Optics Inc.**  
Model 915B Piezo-electric fiber stretcher provides up to 16um stretch for 9m of fiber from DC to 10kHz falling off to 0 @ 100kHz. Fiber is stretched and compressed by piezo wafers elastically mounted on the sides of an oval form. The fiber is stretched only on the straight portion of the oval, to prevent bend induced cross coupling in PM fibers.

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#### Photon Engineering LLC

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## More News From Europe

### Light from Ancient Quasars Helps Confirm Quantum Mechanics of Entanglement

An international research team has extended the case for quantum entanglement, further limiting the possibility that a freedom-of-choice loophole might reveal that such correlations could have a classical explanation.



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### Machine Learning Technique Can Rebuild Images That Go Through Multimode Fibers

Using a deep neural network that imitates the way the brain processes images, researchers reconstructed images transmitted over multimode optical fibers at distances of up to 1 km.

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### Vuzix, Plessey to Partner for Smart Glasses Technology

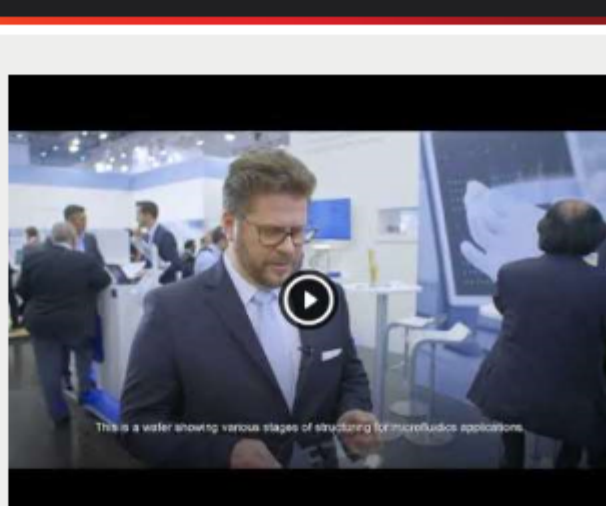
Optronics solutions developer Plessey Semiconductors Ltd. is partnering with Vuzix to develop the necessary technologies for a new generation of AR smart glasses based around the combination of Plessey's microLED light source product family, Quanta-Brite, and Vuzix's expertise and IP in smart glasses and essential optic technologies.

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## Featured Video

### SCHOTT Solutions for InVitro Diagnostics

Light is not always simply light when it comes to clinical diagnoses, light is the key to prediction accuracy in analytical quality. Our solution: a flexible fiber optic multi-branch device with several light guides, which is fed from a LED light source. Our clou: a light source with long-term stability – one that delivers the same light in the required wavelength. SCHOTT is the only supplier worldwide offering a sensor technology that delivers online regulation over the entire lifetime without recalibrations.



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## Coming in the Next Issue...

### Features

Displays, Fiber Optics for Communications, Microscopy

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