

# euro PHOTONICS



Quarterly newsletter from Photonics Media highlighting the latest photonics news, features and products from Europe.



## From the Editor's Desk



**Solar Takes Flight**  
JUSTINE MURPHY, SENIOR EDITOR

Nelson Mandela once said, "It always seems impossible until it's done." These words ring true for Solar Impulse, a program "born in Switzerland" that aims to demonstrate the power of clean technologies — sometimes in dramatic fashion. The program's Solar Impulse 2 (SI2) aircraft...

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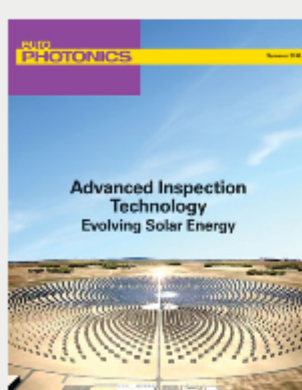
## Life in the Ultrafast Lane with Fiber Lasers

For lasers, shorter pulses mean more precision and new applications. That's been true for decades. What's changed in the last few years is that prices for lasers with pulse widths a picosecond or less are dropping significantly. The price plunge has been pushed along by ultrafast fiber lasers, which are less...



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## EuroPhotonics - Summer 2016



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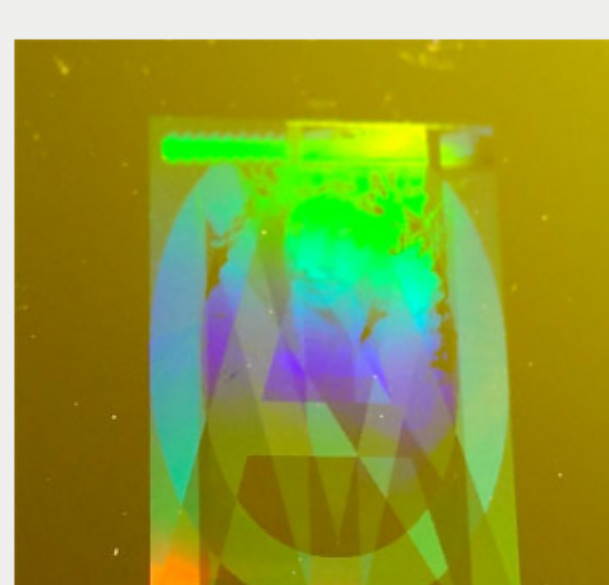
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## More News From Europe

### Metasurface Encodes IR Images

Irregular metasurfaces can be made to encode multiple images at IR frequencies in much the same way as the pixels in a television screen can form a visible-light image. This was demonstrated with an array of subwavelength metal-insulator-metal (MIM) resonators that revealed different letters and even a famous painting...



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### Laser Ranging System Tracks Movement of Hidden Objects in Real Time

A single-photon avalanche diode camera system has been used to image objects located out of the camera's line of sight and track their movements with centimeter precision. A laser ranging system can see around walls and locate hidden objects with centimeter precision and then track their movements. Courtesy of...

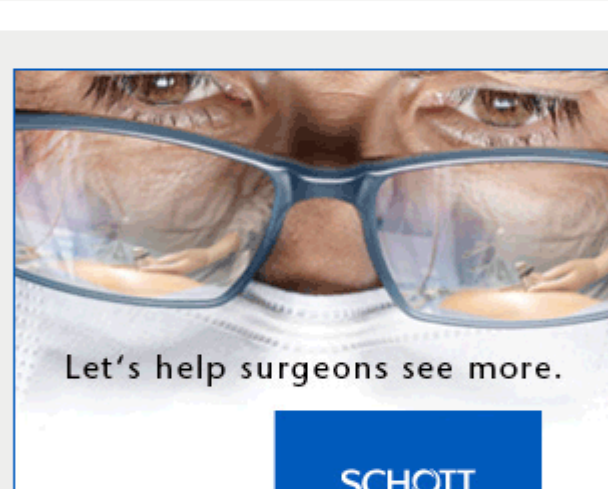
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### UK Creates £13M Photonics Manufacturing Hub

More than 40 U.K. companies will take part in a photonics manufacturing research center to be led by the University of Southampton. Production of an optical fiber on a silica lathe. Courtesy of the University of Southampton. The Future Photonics Hub will provide national leadership in manufacturing for next-generation...

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## Featured Products



### Ultra Fluorescence Filter Sets

**Alluxa**

Alluxa's ULTRA Series of fluorescence filter sets are designed to provide the highest level of performance currently available for off-the-shelf products. ULTRA filter sets provide better overall performance than our standard filter sets by combining the industry's highest transmission with tight wavelength control...

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### OpTest® Lens Measurement System

**Optikos Corporation**

OpTest® Lens Measurement Systems perform tests in situations similar to actual applications, replicating field angle positions, conjugate ratios, spectral regions and image plane architecture. Lens assemblies that may be measured on OpTest systems run the gamut from the typically large surveillance lenses used in the...

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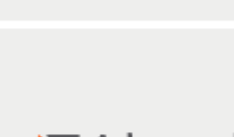


### Lumencor's LIDA Light Engine

**Lumencor Inc.**

Lumencor's LIDA light engine works hand-in-hand with the latest monochrome cameras to generate RGB color transmitted light images with unprecedented sensitivity, spatial resolution, speed and color fidelity. TTL gating of LIDA's three solid state light sources synchronized with camera exposure generates...

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### Advanced Energy® UltraVolt® HVA Series—Precision High Voltage Amplifier

**Advanced Energy**

**Advanced Energy Industries Inc.**  
The HVA series of DC-to-DC high voltage power supplies operates a precision filter/divider and linear HV switch to produce a high voltage amplifier (HVA). These modules provide a high-resolution, programmable, high voltage DC to full-scale power generation capability greater than 1 kHz output. This is optimized for bias...

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### Let's Help Surgeons See More.

**SCHOTT AG, SCHOTT Lighting and Imaging**

It's not just quantity. It's also the quality of light that determines endoscopy results. It makes providing surgeons with state-of-the-art equipment a real challenge. A challenge we help our partners rise to with customized fiber optics. Our solutions go beyond hi-res images. They push the boundaries, enabling...

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### Quality Control of Single Lenses

**TRIOPTICS GmbH**

In optics production, the quality of a single lens is a prerequisite for precise optical systems. Optical test systems from TRIOPTICS guarantee the highest precision for the measurement of: • Radius • Center thickness ...

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### Laurin Publishing Announces Poster Series

**Photonics Media**

Laurin Publishing Co., whose titles include Photonics Spectra and BioPhotonics magazines and the Photonics Buyers' Guide, announces the availability of two posters featuring art that takes a lighthearted look at the early days of the photonics industry. The unique and original drawings of Diane M. Laurin appeared...

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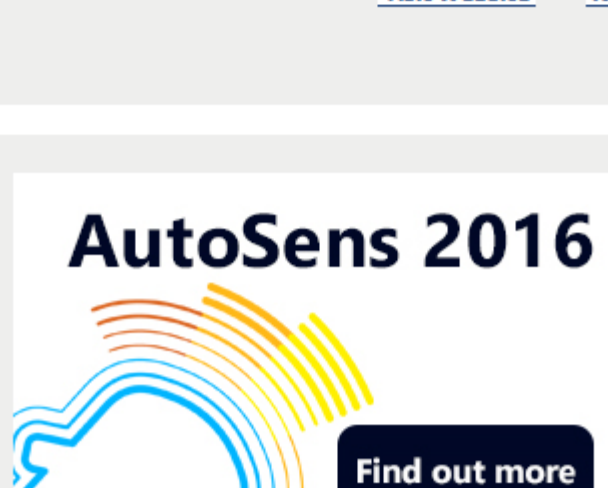
### PC-Controlled Variable Coupler

**Evanescent Optics Inc.**

The Model 905(P)-M is a variable-ratio fiber coupler; the ratio can be remotely controlled with a PC through a USB port. Available in SM, non-PM and PM versions, it operates over wavelengths from 590 nm to 2 μm. Standard coupling range is from 0 to 99%; other ranges are available. The coupler offers ultralow loss of...

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## Coming in Fall...

### Features

Optical Sensors; Image Processing; Machine Vision – Robot Guidance; Illumination

### Issue Bonus

Cameras, Imaging Sensors & Systems Directory

Photonics Media is currently seeking technical feature articles on a variety of topics for publication in our magazine *EuroPhotonics*. Please submit an informal 100-word abstract to Senior Editor Justine Murphy at [Justine.Murphy@photonics.com](mailto:Justine.Murphy@photonics.com), or use our online submission form [www.photonics.com/submitfeature.aspx](http://www.photonics.com/submitfeature.aspx).