

# euro PHOTONICS



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

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## From the Editor's Desk



### THz Photonics: Leading Optical Communications to the Next Level

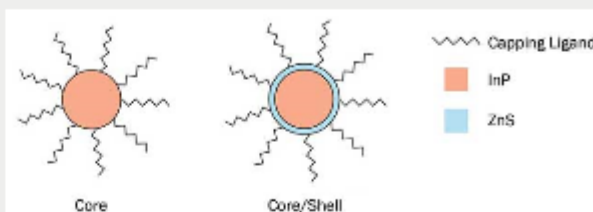
JUSTINE MURPHY, SENIOR EDITOR

We live in a world of unending connection. The internet and wireless communications are commonplace, although ever-evolving. And as consumers are always looking for faster connection speeds, less restricted bandwidth and higher data rates, research and industry innovators are breaking new ground in optical communications to keep pace with demand.

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### Achieving Optimum LED Performance With Quantum Dots

The use of quantum dots in combination with LEDs shows huge potential benefits for the lighting industry. The versatility and tunability of quantum dots can offer solutions when optimizing luminaire design for peak performance.



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## EuroPhotonics - Autumn 2016



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**Tunable Laser**

Range: 1250-1680nm  
High power: > +10dBm  
High SNR: 90dB/0.1nm  
High wavelength accuracy

**Tunable Filter**

Steep filter: 1000dB/nm  
Bandwidth range: 0.05-2nm  
O/E-band 1525-1610nm  
Peak search function

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## More News From Europe

### IR Sensor Calibration: When Extreme Uniformity Is Not Boring

Extended area blackbodies are now commonly used as reference sources for IR cameras, simultaneously calibrated. The uniformity of the reference blackbody is therefore essential. A newly developed specific bench measures IR source uniformity with a high accuracy.



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### Portable Microscope Could Speed Sepsis Detection

A portable microscope, developed as part of a scalable, point-of-care, label-free microarray platform, may offer more rapid detection of sepsis and other infections caused by bacteria, ultimately saving millions of lives each year.

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### GE Oil & Gas Begins New Manufacturing Lines

GE Oil & Gas has reported implementation of two advanced manufacturing lines in its Italian plant, using robots to optimize and accelerate cycle times.

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## Featured Products



### Santec Swept Test System STS

**Santec Europe**

Santec's Swept Test System streamlines photonic testing, providing a complete solution where high-speed, high resolution and accuracy are key.

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### OptiCentric Cementing-Automated Alignment of a Lens on an Arbor

**TRIOPTICS GmbH**

TRIOPTICS presents the latest innovations for highly precise lens centering measurement, alignment and assembly systems. The automated alignment of a lens on an arbor offers high flexibility, efficiency and accuracy in production process.

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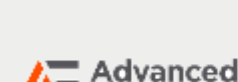


### Lumencor's SOLA SE FISH Light Engine

**Lumencor Inc.**

Lumencor's SOLA light engines offer access to modern solid state illumination, with all its performance and efficiency benefits, at a price comparable to most metal halide light sources.

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

**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 waveform capability greater than 1 kHz output.

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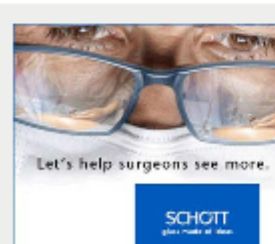


### 1 GHz Spaced Frequency Comb: taccor comb

**Laser Quantum Ltd.**

Today, frequency combs enable precision optical frequency measurements much in the same way as a ruler is used to measure a distance. Laser Quantum's taccor comb has enabled optical frequency measurements with 20 significant figures.

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### Let's Help Surgeons See More.

**SCHOTT AG, 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.

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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.

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### PC-Controlled Variable Coupler

**Evanescence 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.

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## Coming in Winter...

### Features

Defense/Security Sensors; Aerospace Optics; Solar Advances; Laser-based Imaging

### Issue Bonus

Lasers 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 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).