

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



Improving Defense, With Precision

JUSTINE MURPHY, SENIOR EDITOR

The 21st century battlefield is marked by distance and precision. Remote weapons systems, precision-guided munitions and weaponized vehicles that can be operated remotely are mainstays of the modern battle theater. This fundamental shift in the nature of warfare is due to seismic technological advances — many of them photonic.

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Airborne Optics to See and Strike

To keep in step with detector and laser system developments, the optical component industry is turning to innovations in materials and manufacturing. These must perform well — in size, weight, power and cost — to best develop aerospace and defense applications.



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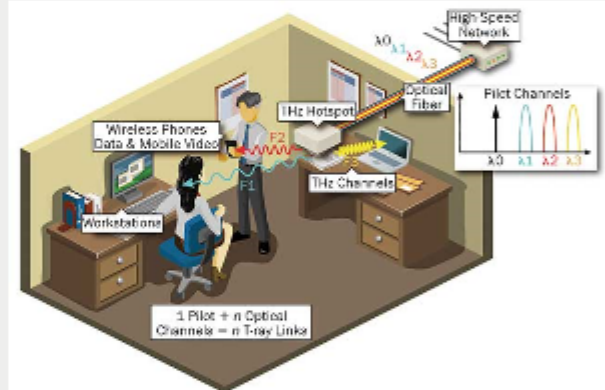
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More News From Europe

THz Photonics: Delivering Fiber Data Rates on Radio Channels

The development of THz devices, operating at fiber optic wavelengths, could soon cover the last available part of the spectrum — millimeter/submillimeter frequencies — tackling the problem of bandwidth requirements for mobile end-user connectivity.



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Quantum Approach Measures Optical Molecular Activity With Precision

Quantum optical rotatory dispersion, a technique that uses quantum methods to differentiate and measure molecules when light passes through chiral media, could offer a precise way to measure intricate molecular properties, even when low light or a low concentration of the molecule is used.

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Imaging Biomarker for Parkinson's Clinical Trials Gains EMA Support

The European Medicines Agency (EMA) has issued a letter of support on the use of neuroimaging biomarker dopamine transporter imaging as an exploratory biomarker for early Parkinson's disease (PD). The biomarker will help researchers select people in the earliest stages of the disease for participation in clinical trials of new treatments for PD.

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Featured Products



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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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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PC Controlled Variable Coupler

Evanescence Optics
The Model 905(P)-M is a variable ratio fiber coupler, the ratio can be remotely controlled with a PC (through a USB port), or manually. Available in SM non-PM and PM versions, wavelengths from 760nm to 2um.

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Laser Frequency Comb in Astronomy Research

Laser Quantum Ltd.
Answering fundamental questions in astronomy, such as the expanding universe theory, depend on the possibility of measuring the slow drift of cosmological redshifts which are inherent in any evolving universe.

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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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Compact Alignment Turning Station

TRIOPTICS GmbH
Like all alignment turning stations developed by TRIOPTICS the ATS 100 is a combination of a compact and stable turning machine and TRIOPTICS' proven lens centering measurement technology.

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Coming in the Next Issue...

Features

Superresolution Microscopy; Integrated Photonics for Solar; Optical Fiber Communications for Aerospace/Defense

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, or use our online submission form www.photonics.com/submitfeature.aspx.