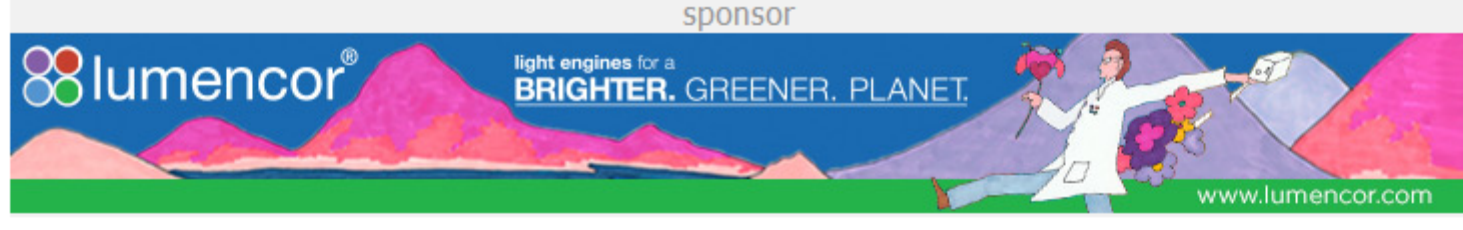


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Imaging UAVs Move to the Forefront of Surveillance and Reconnaissance

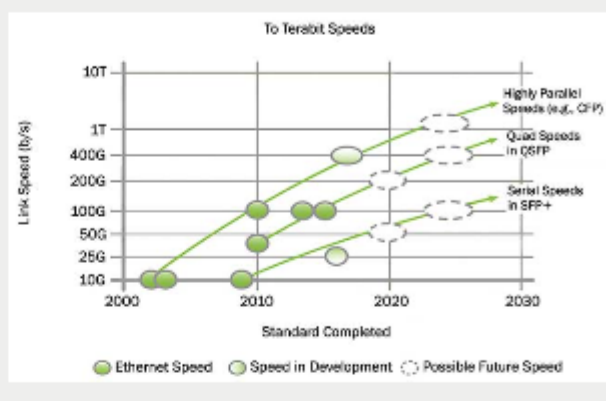
With the U.S. and the U.K. deploying more troops overseas, and given the global increase in the frequency and lethality of terrorist attacks, it's of little surprise that versatile unmanned aerial vehicles (UAVs) are playing a bigger role than ever before to tackle a new era of complex military issues.



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Silicon-on-Insulator Substrates: The Basis of Silicon Photonics

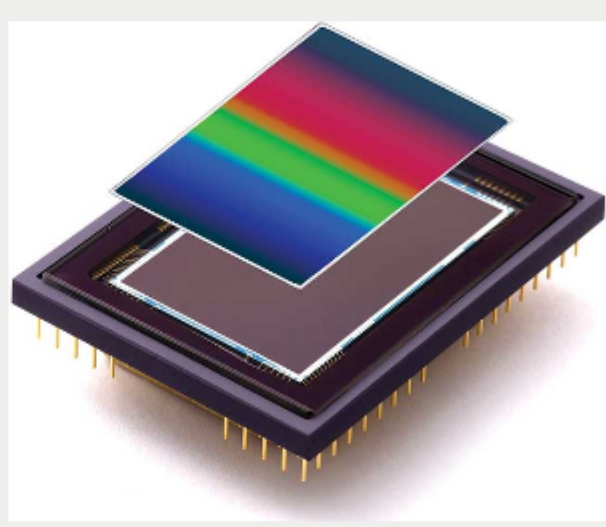
With the advancement of mobile technology and applications, better internet and data connectivity is increasingly in high demand. Silicon photonics has the potential to become the key technology.



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Continuously Variable Bandpass Filters Aid Optics and HSI

The development of optical continuously variable bandpass filters is presenting an alternative approach for hyperspectral imaging techniques, making it more appealing to volume markets. This can include cancer detection, precision farming with unmanned aerial vehicles (UAVs) or directly at the plant, and food testing in supermarkets.



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Featured Products



PC Controlled Variable Ratio Coupler

Evanescence Optics Inc.
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Yelo Limited

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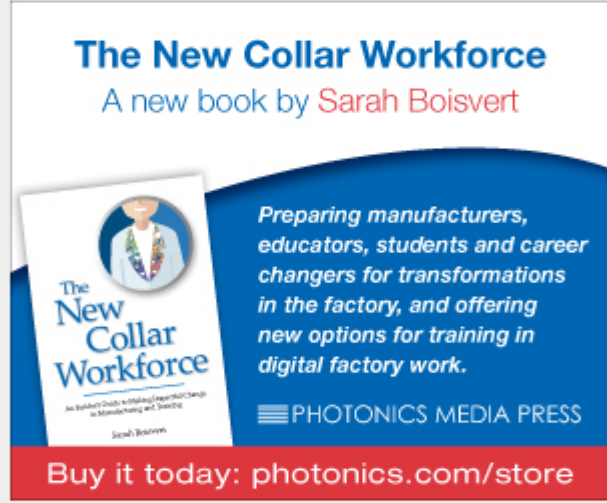


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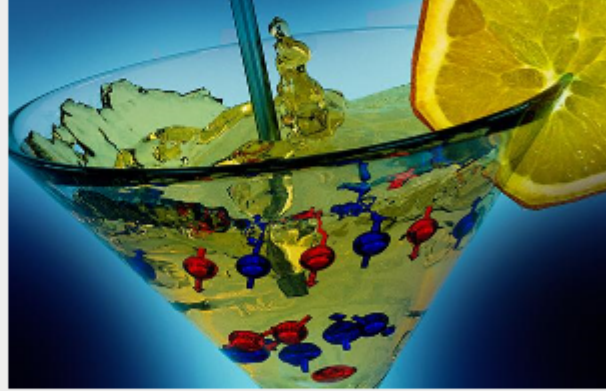
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More News From Europe

'Quantum Cocktail' Provides Insight Into Magnetic Storage

To speed up the writing and readout of magnetic information from storage devices, researchers are exploring the use of ultrashort laser pulses that can switch magnetic domains in solid-state materials. Although this route shows promise, the large number of magnetic materials interacting with one another has made this approach difficult to study.



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Schott Casts First Segments for ESO's Extremely Large Telescope

The first six hexagonal segments for the main mirror of the European Southern Observatory's Extremely Large Telescope have been successfully cast by glass manufacturer Schott AG at its facility in Mainz.

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LED-Based UV Light Can Rapidly Convert 3D Printing Polymeric Inks Into Solids

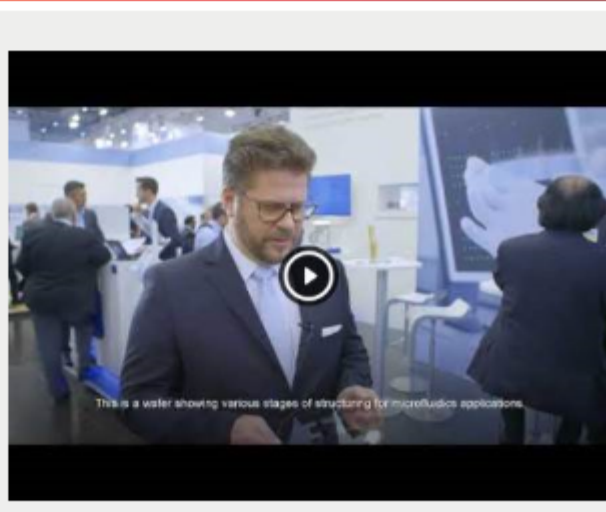
A breakthrough in rapid additive manufacturing that involves UV light solidifying the inks used could pave the way for fully functional 3D-printed electronic circuits. Researchers have pioneered the breakthrough and hope to produce functional components such as 3D antennae and fully printed sensors from multiple materials including metals and plastics.

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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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Virtual Reality; 3D Spectroscopy; Scientific Lasers

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