

A quarterly newsletter presenting significant developments in the use of photonics in the vital defense and aerospace industries.

Defense & Aerospace News

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.











A robot equipped with a 20-kW CO2 laser will soon be removing paint from commercial and military aircraft, both big and small. The Laser Coating Removal

(LCR) robot from LR Systems BV will allow a faster and cleaner removal process than previous methods and lead to less time on the ground for the aircraft.



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BAE Systems Provides Specialized Weapon Sights to Army The U.S. Army has awarded BAE Systems a seven-year contract worth up to

\$384 million to provide specialized weapon sights that improve soldiers' ability to quickly and accurately engage targets at extended ranges. The Family of Weapon Sights-Crew Served (FWS-CS) system uses high resolution sensors and lightweight laser range finders that wirelessly transmit weapon sight imagery to a helmet-mounted display in real-time.



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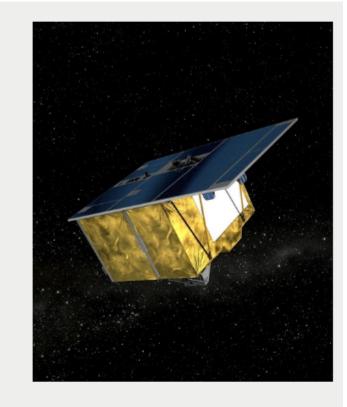


Berliner Glas Used for EnMAP Satellite





The Environmental Mapping and Analysis Program (EnMAP), a German Earth observation satellite mission, is using prisms from the Berliner Glas Group onboard the craft for laser communication in space. This mission will measure sun rays reflected from the Earth's surface over a wide spectral range. The spectrometers used deliver hyperspectral data from over 240 small channels of the continuous spectrum of visible light up to NIR and create a completely new level of quality for spectroscopic observation of the Earth.











Sener, Thales Alenia Space Sign Business Agreement

Alenia Space have signed an agreement to execute a joint business plan that will

develop the Spanish space industry with the manufacture of optical payloads.

Engineering and technology group Sener and space systems developer Thales







Federal Reserve Security Places Order for Guide Rod Lasers from LaserMax

lasers used in the security-force-issued Glock G17 and G19 pistols. Read Article

Laser gun sight manufacturer LaserMax Inc. has received an order from the U.S. 4th District Federal Reserve Security Force for its Guide Rod

Military EO, IR Systems Market Set for Growth

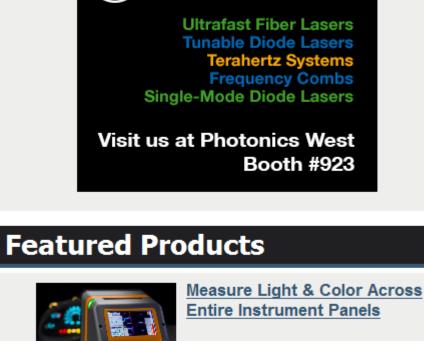






Alpes Lasers to Supply QCLs to U.S. Air Force Intelligence Project Advanced light source developer Alpes Lasers SA has been selected as a supplier and developer of broadband quantum cascade lasers (QCLs)

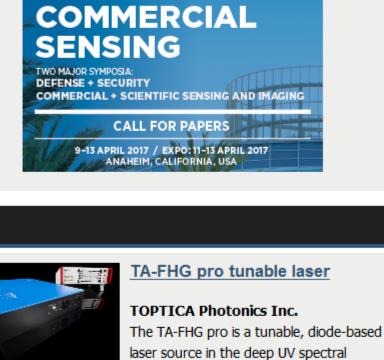
by several chemical sensing companies working on the Standoff Illuminator for Measuring Absorbance and Reflectance Infrared Light Signatures (SILMARILS) program. 3 7 6 0 Read Article



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range. The system consists of an external cavity diode laser, a high

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power semiconductor amplifier (TA), and two cascaded second

harmonic generation stages (SHG pro).

2017

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Measurement Auto-POI (Automatic Points of Interest) is the first software tool to offer truly automated light and color measurement for indicators



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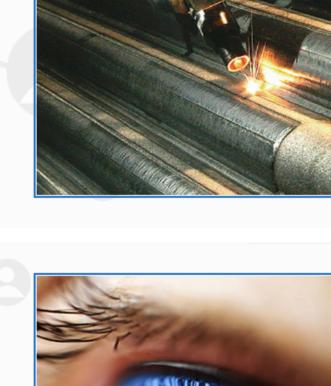
Radiant Vision Systems, Test &

LAM Technology, Opportunities and Challenges Thu, Jan 12, 2017 1:00 PM - 2:00 PM EST Laser Additive Manufacturing (LAM) is one of the breakthrough technologies facilitating the transition from traditional subtractive machining to 3D printing. This

webinar will provide you with a solid foundation in LAM and 3D printing, covering the advantages, possibilities and challenges of these cutting edge technologies. Wayne Penn, applied physics consultant and former president of Alabama Laser Systems, will draw on his considerable experience to provide you with unique

insight into LAM and its potential uses in a range of industries, including aerospace.

Register Now



OLED Microdisplays: Advancing Virtual and Augmented Reality Smart Glasses Thu, Jan 19, 2017 10:00 AM - 11:00 AM EST Data glasses and wearables like fitness trackers are changing the way many of us live, as well as enhancing vision capabilities in industry and defense. In this webinar sponsored by Radiant Vision Systems, presenter Uwe Vogel, director of the

Microdisplays and Sensors division at Fraunhofer FEP, will discuss the four categories of microdisplay technology, the primary attributes of a microdisplay and the technical challenges. Vogel will address the delicate "balancing act" between microdisplay content and size, and why, in spite of their challenges, OLED microdisplays are the preferred

choice for mobile devices. He will talk about near to eye (NTE) displays, the

markets for these displays and the companies currently offering NTEs. Register Now



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