

PHOTONICS IN DEFENSE & AEROSPACE



A quarterly newsletter presenting significant developments in the use of photonics in the vital defense and aerospace industries. Manage your Photonics Media membership at Photonics.com/subscribe.

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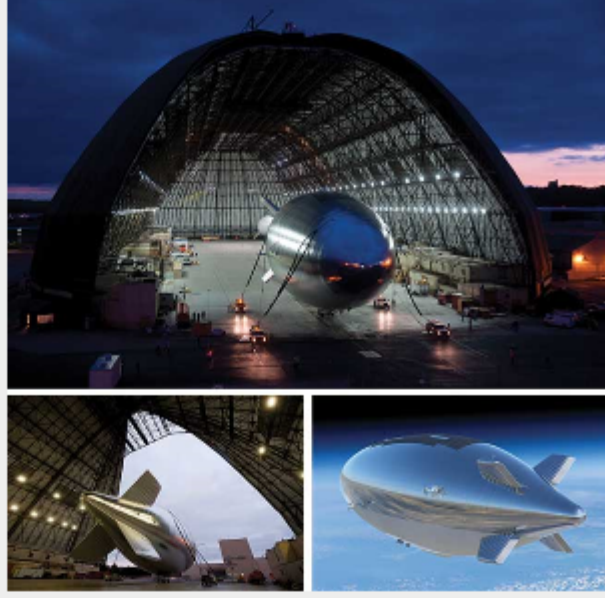



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Defense & Aerospace News

Imaging UAVs Move to the Forefront of Surveillance and Reconnaissance

From advances in sensor technology to intelligent software and more powerful processing, imaging applications are establishing their place in the modern defense and security landscape. A key trend is the availability of increasingly compact sensors, which is enabling imaging systems to take to the skies.



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Lasers Adapt to Changing Threat Landscape

The danger facing today's global defense force is shifting. With the rise in unmanned aerial vehicles (UAVs) and enemies gaining greater ballistic missile expertise, ultraprecise and quick-response laser systems are attracting more interest than ever before. Lasers offer a low-cost-per-shot solution to high-volume...



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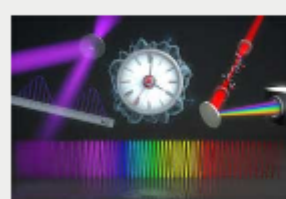
Featured Products



Alluxa Ultra Series Filters and Coatings

Alluxa
Alluxa Ultra Series Filters, including Narrowband, Dichroic, UV, IR, and Notch filters, provide the highest performance optical thin film solutions available today. For example, the Ultra Series Flat Top Narrowband filters offer the narrowest bandwidths and squarest filter profiles in the industry.

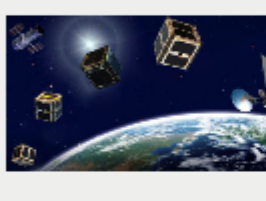
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Frequency Comb

TOPTICA Photonics Inc.
TOPTICA's frequency comb product line is a modular system that supports a broad variety of applications. Three basic versions of the DFC are available: DFC CORE, DFC CORE+ and DFC SEED. All models use TOPTICA proprietary CERO-technology to achieve an unprecedented low-noise performance.

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Space-Certified™ Laser Diodes

Photodigm Inc.
Photodigm Space-Certified™ laser diodes, detectors, and other optoelectronic components enable advanced mission payloads. Our engineering team has extensive experience in developing and implementing customized screening and testing procedures to certify compliance with stringent mission requirements.

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Diffraction Grating Solutions

Optometrics Corporation
Diffraction efficiency and dynamic range are critical parameters in many spectrometric instrument designs. Understanding why a particular reflective or transmission diffraction grating may have small yet necessary performance differentiation for instrument optimization success can be critical.

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The New Collar Workforce

Photonics Media
U.S. manufacturing companies are expected to face a shortage of two million skilled workers by the year 2020, according to reports. As a result, manufacturers and educators are looking for real, actionable ideas to train workers, reduce the shortfall and realize the potential of the new age of manufacturing.

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microHSI 410 SHARK

Corning Incorporated, Advanced Optics
Corning Hyperspectral Imaging provides hyperspectral sensors and full hyperspectral systems for all applications including precision agriculture, industrial, environmental monitoring, mining and mineralogy. Corning's microHSI™ family of hyperspectral sensors and systems combine the lowest size, weight and power (SWaP) in the industry.

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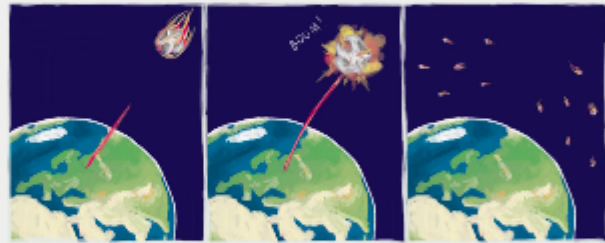
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More News

Laser Simulations Model Impact of Nuclear Explosions on Asteroids

Researchers constructed miniature asteroids and blasted them with a laser to model the impact of a nuclear explosion on an asteroid threatening to collide with Earth. The research team showed that a brief laser pulse aimed at a miniature replica of an asteroid could produce effects similar to those of a nuclear explosion on an actual space rock.



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DCS 2018 Spotlights Defense, Agriculture, IoT

Today's high-tech world is reinventing warfare with the most advanced tools for soldiers and others in the defense and security landscape. The onset of new technologies is also advancing the environmental, cyber and health care segments. SPIE Defense + Commercial Sensing (DCS) — slated for April 15-19 in...



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BAE to Supply UAE Armed Forces Aircraft with Head-Up Displays

Head-up display (HUD) developer BAE Systems PLC has been selected by Lockheed Martin to modernize HUDs on F-16 aircraft for the United Arab Emirates (UAE) Armed Forces. Replacing the fleet's analog system with advanced digital technology. BAE Systems will modernize head-up displays on F-16 aircraft for the United...



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James Webb Space Telescope Makes Its Way to Northrop Grumman

The two halves of NASA's James Webb Space Telescope now reside at aerospace and defense technology developer Northrop Grumman Corp. where they will come together to form a complete observatory. "This is a major milestone," said Eric Smith, program director for the Webb observatory program at NASA....

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Elbit Awarded \$46M NATO Contract

Defense technology company Elbit Systems Ltd. has been awarded a follow-on \$46 million contract to supply its J-Music Direct Infrared Countermeasures self-protection systems to the North Atlantic Treaty Organization (NATO) for the organization's Airbus A330 Multinational Multi-Role Tanker Transport Fleet (MMF) Program....

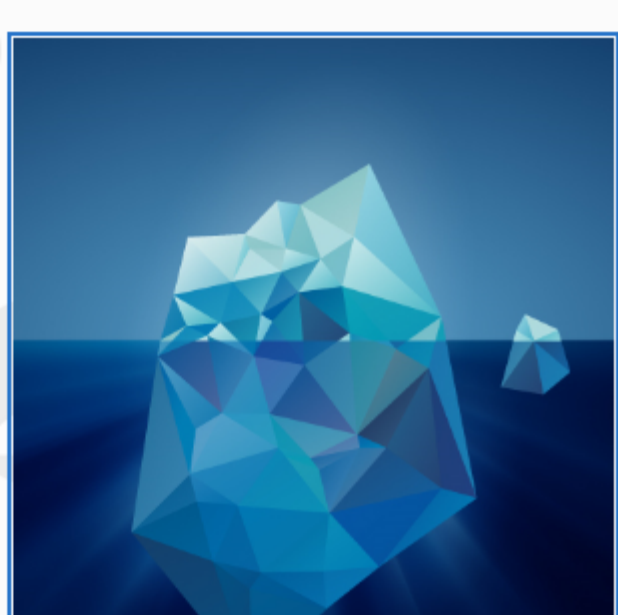
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Webinars

Synthetic Sapphire: Properties, Use and Selection

Thu, Apr 26, 2018 1:00 PM - 2:00 PM EDT

Synthetic sapphire applications are used in many industries, including defense, aerospace and medical manufacturing, and for numerous applications, including sensors and in process control. Sapphire, the hardest natural substance next to diamond, is stronger than many other optical materials. In this webinar you will learn about synthetically grown sapphire and the range of applications for which it is an appropriate, and in some cases a superior, choice. The webinar will discuss the differences between sapphire and glass and how to select the type of synthetic sapphire that is right for your application.



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