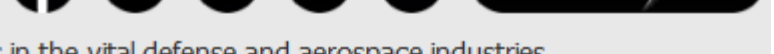


PHOTONICS IN DEFENSE & AEROSPACE



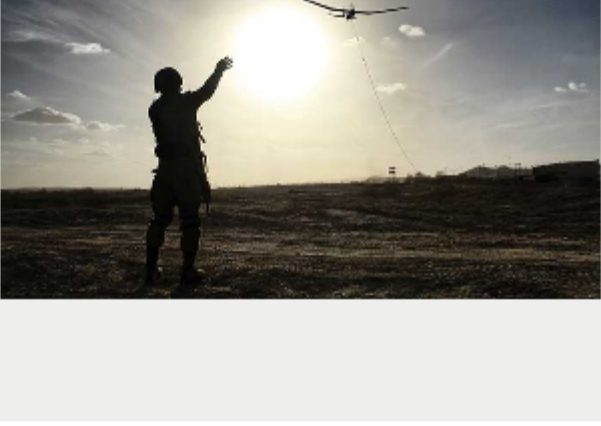
A quarterly newsletter presenting significant developments in the use of photonics in the vital defense and aerospace industries.

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Defense & Aerospace News

Defense Drones Take Sensing to New Heights
They're lurking in the air in the trouble spots around the world, from the mountains of Afghanistan to the deserts of Iraq and Syria, to the disputed waters of the South China Sea. Unmanned aerial vehicles (UAVs), or drones, are acting as the eyes in the sky, playing an increasingly prominent role in spying, search...




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Qioptiq Awarded \$100 Million STAS Contract from UK MoD
The U.K. Ministry of Defence (MoD) has awarded Qioptiq, an Exceltias Technologies Company, a \$100 million Surveillance and Target Acquisition - Support (STAS) contract to provide support for targeting and surveillance equipment to the U.K. Armed Forces over the next six years.




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Defense and Aerospace
When it comes to spacecraft, planes and military gear, weight is all important. That's understandable, as it costs about \$10,000 to put a pound in orbit, in the case of spacecraft. For planes and military gear, there are limits on what can be flown or carried. Hence, the importance of keeping weight down — and the growing interest in and use of photonic integrated circuits (PICs).



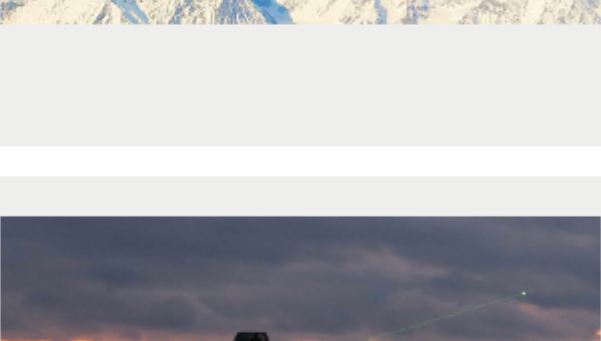
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More Fiber Will Make Healthier Aerospace and Defense
Specialized aerospace and defense requirements present challenges for fiber optics, making it more difficult to use technology originally developed for civilian and commercial applications. However, the industry is now responding and finding solutions.



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UK Defense Ministry Awards £30M Weapons Contract to Dragonfire
The UK Ministry of Defence (MoD) has awarded a £30 million (\$36 million) contract to British industrial consortium Dragonfire for a laser-directed energy weapon (LDEW). The project will assess innovative LDEW technologies and approaches, culminating in a demonstration of a point defense system from incoming fire in 2019.



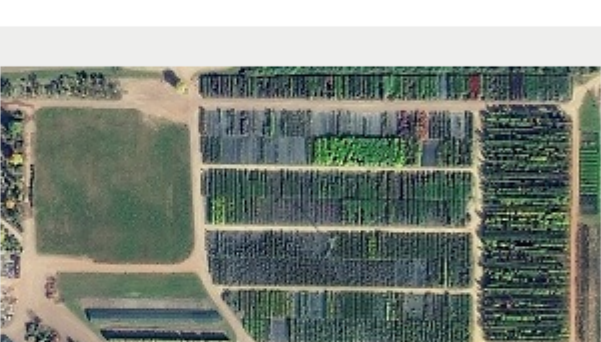
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European Space Imaging Awarded EU Satellite Service Supply Contract
European Space Imaging GmbH has signed a multi-year framework supply contract with the European Commission for the provision of very high-resolution (VHR) satellite data and associated services in support of the European Union's (EU) Common Agricultural Policy (CAP).



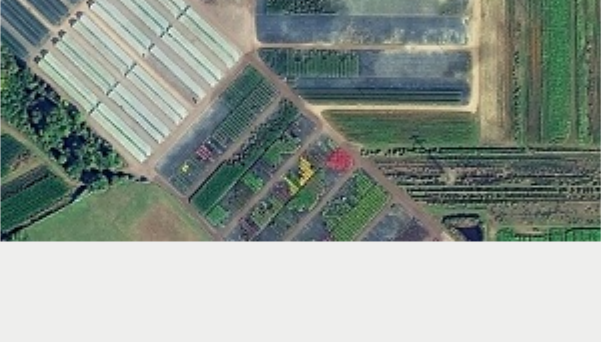
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Small, Low-Cost Remote Sensing Satellites Could Orbit Much Closer to Earth
Smaller and less expensive satellites may soon orbit much closer to Earth, improving the quality of images they send back. The University of Manchester is heading up the project to develop remote sensing satellites that can operate at 200-450 kilometers above the Earth's surface. Remote sensing satellites currently operate at about 500-800 kilometers above the Earth, above the residual atmosphere that exists at lower altitudes.



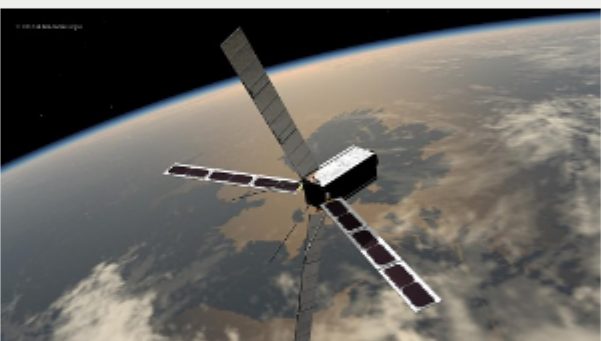
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Fraser Optics, IGG Partner to Provide Optics for UAE Armed Forces
Handheld stabilized optics supplier Fraser Optics LLC has finalized a new strategic alliance with International Golden Group (IGG), the leading supplier of high-end defense and security solutions to the United Arab Emirates Armed Forces. The alliance will combine Fraser's stabilized optics technology with...



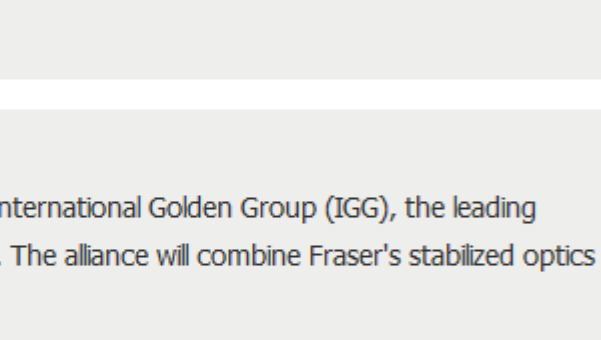
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Elbit Receives \$35M in Contracts for Laser Designators
Arms and aerospace company Elbit Systems Ltd. has received two three-year contracts, valued at \$35 million, to supply laser designator systems for two unspecified countries in the Asia-Pacific region. Elbit Systems has years of experience in developing advanced electro-optic systems including highly accurate and...



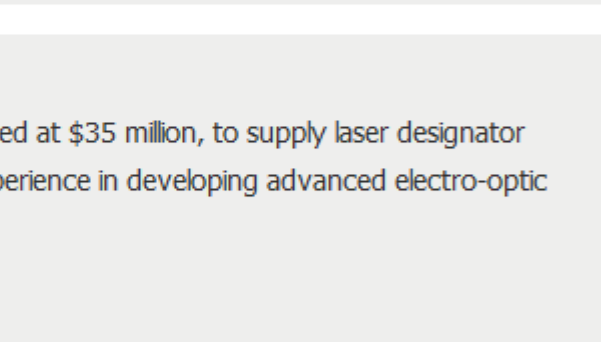
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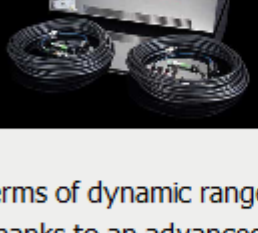
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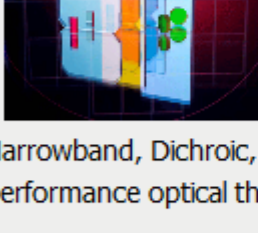
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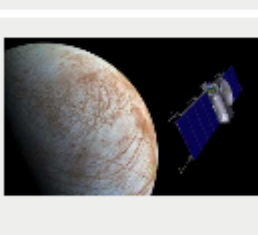
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TRIOPTICS GmbH
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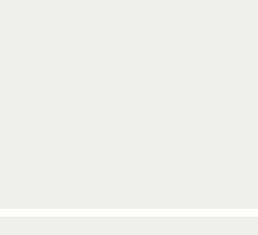
Up-screening of COTS Laser Diodes
Photodigm Inc.
Photodigm now offers an up-screening service for space bound commercial-off-the-shelf (COTS) laser diodes and photodiodes including Photodigm's TOSA and 9mm DBR laser diodes.

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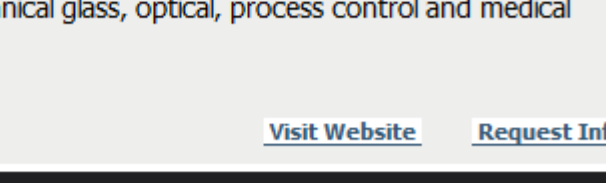
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Webinars

Introducing the CAOS Smart Camera - Empowering Extreme Imaging
Wed, Apr 26, 2017 1:00 PM - 2:00 PM EDT
For security and surveillance applications, achieving true image scene pixel information is vital. This has led to an increasing demand for a smart camera that can achieve true vision through highly directional and adaptive image pixel sifting for high-value targets. Nabeel A. Riza, Ph.D., chair professor of Electrical and Electronic Engineering at University College Cork, will discuss the development of the Coded Access Optical Sensor (CAOS) and how, working in unison with CMOS sensors, CAOS can smartly extract scene contrast and pixel light intensity information using time-frequency coding of selected pixels. He will discuss how CAOS addresses the challenge of reaching extreme all-linear, instantaneous dynamic ranges with multicolor smart capture of targets of interest within extreme contrast images, and will provide a demonstration of a version of CAOS called the CAOS-CMOS camera. Who should attend: anyone who may require or is interested in extreme contrast imaging.

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