

PHOTONICS IN DEFENSE & AEROSPACE



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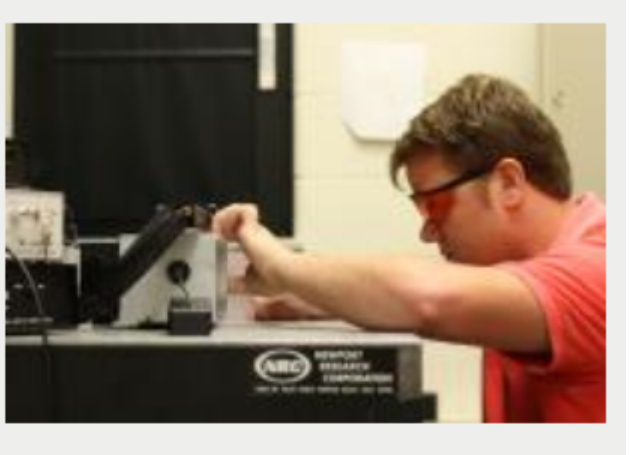
EXHIBITS: MARCH 27-29, 2018 | CONFERENCE: MARCH 26-29, 2018 | LONG BEACH (CA) CONVENTION CENTER

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Defense & Aerospace News

Spectroscopy Instrument to Aid in the Search for Extraterrestrial Life

A compact spectroscopy instrument has been developed for use in planetary exploration. The system, called the standoff ultra-compact micro Raman (SUCR) instrument, is capable of inspection and identification of minerals, organics and biogenic materials within several centimeters (2 to 20 cm) at a 10- μ m resolution.



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NASA Radiometry Instrument at MIT to Launch Into Orbit

The NASA-funded CubeSat, the Microwave Radiometer Technology Acceleration (MiRaTA), will be launched into Earth's orbit from the rocket carrying the National Oceanic and Atmospheric Administration's JPSS-1U.S. weather satellite into space. MiRaTA is designed to demonstrate that a small satellite can carry instrument technology that's capable of reducing the cost and size of future weather satellites and has the potential to routinely collect reliable weather data.

Microwave



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Featured Products

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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Corning Hyperspectral Imaging

Corning Incorporated, Advanced Optics

Corning's microHSI family of hyperspectral sensors and systems combine the lowest size, weight, and power (SWaP) in the industry with uncompromising performance — enabling deployment for challenging applications in limited payload or size-constrained environments.

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More News

Proposed NASA Mission Employs 'Lobster-Eye' Optics to Locate Source of Cosmic Waves

An optics system that mimics the structure of a lobster's eyes could be employed on the International Space Station to enable NASA to precisely locate, characterize and alert other observatories about the source of gravitational waves. The Transient Astrophysics Observatory on the International Space Station, or ISS-TAO, is being considered by NASA as a potential Explorer Mission of Opportunity.



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Resolve Lenses Ordered by Nuclear Systems Integrator

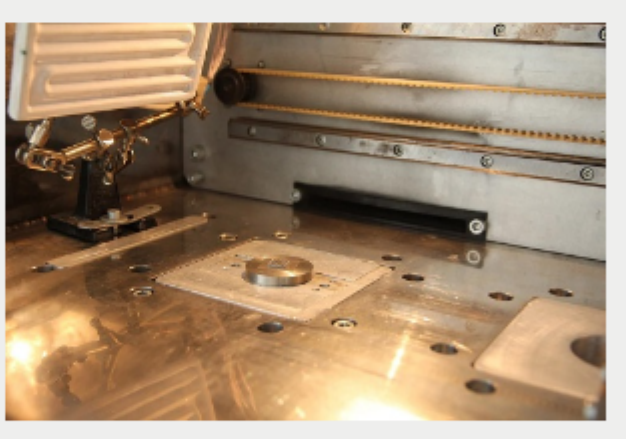
Lens developer Resolve Optics Ltd. has announced that a leading global nuclear systems integrator has ordered a second batch of its Model 357 non-browning zoom lens. This unique lens is designed to provide true HD-quality images over an unrivaled 10 \times zoom range. "We are delighted to receive this second order of..."



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Additive Manufacturing of Titanium Aircraft Parts

An additive manufacturing technology that uses direct metal laser sintering enables the printing of titanium aircraft parts with a modified surface layer. The production of metal products via additive manufacturing ensures less material consumption as well as possibilities to develop complex geometric products.



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Six-Telescope Beam Instrument Shows Results in IR Interferometry, Astronomy

MIRC-X, the six-telescope beam combination instrument developed by the University of Exeter and the University of Michigan, together with C-RED One, a fast, low-noise, IR camera from First Light Imaging, are enabling new perspectives in IR interferometry for astronomy. The MIRC-X imager is now looking at the sky on the...

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University of Toronto Astronomers Receive \$23M in Funding

Astronomers from the University of Toronto's Dunlap Institute for Astronomy & Astrophysics have received \$10 million in funding for the development of a radio astronomy data center and \$13 million for a new IR spectrograph. "The Dunlap Institute's main mission is to develop innovative new approaches to astronomy, and..."

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Lasertel Awarded Phase 1 Contract

Custom laser diode supplier Lasertel has been awarded a Phase 1 contract to participate in the Defense Advanced Research Projects Agency's Efficient Ultra-Compact Laser Integrated Devices (EUCLID) program. With an award of just over \$1 million, Lasertel will work over the next 12 months to develop a new laser diode...

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Webinars

Stray Light Absorption in Broadband Wavelengths
 Tue, Feb 6, 2018 1:00 PM - 2:00 PM EST

This webinar will discuss the science behind broadband light absorption and introduce materials and techniques for applying optically black coatings that demonstrate ultralow reflectance across a broadband spectra. The presenter, who worked on the development of a number of coating processes for NASA, will provide examples of how low-reflectance technology is currently being used in the visible, NIR and IR wavelengths.

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