

sneak PREVIEW



SPIE Optics & Photonics – San Diego, Calif.

August 6 - 10

An advance look at the products, trends and technologies being presented.



An International Meeting of Optical Minds

SPIE Optics + Photonics, scheduled for Aug. 6-10 at the San Diego Convention Center in California, is an international, multidisciplinary optical sciences and technology meeting that annually presents the latest research in optical engineering and applications, nanotechnology, sustainable energy, organic photonics and astronomical instrumentation.

Four conference topics are held, providing an in-depth look at specific research and other work — Nanoscience + Engineering, Optics + Photonics for Sustainable Energy, Organic Photonics +

Electronics, and Optical Engineering + Applications.

There will be plenary sessions with speakers from around the world, representing companies and institutions such as Karlsruhe Institute of Technology, the U.S. Department of Energy, and Amazon.com Inc. Numerous courses, a job fair and an expansive exhibition will also be held.

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sponsor

SPIE. OPTICS + PHOTONICS

6-10 AUGUST 2017 · REGISTER TODAY

EXHIBITION: 8-10 AUGUST 2017
SAN DIEGO, CALIFORNIA, USA

Featured Exhibitors

New Test Equipment & Fiber Optic Components

From: **OZ Optics Limited**

OZ Optics is introducing a new line of test equipment & fiber optic components (400 to 2000 nm). High-speed polarization controller/scrambler, 330 ps electrically/manually controlled optical delay line, fiber length meter, electrically controlled/manual variable broadband tunable filter, low-cost smart detector power meter head, benchtop polarization extinction ratio meter, backreflection meter, digital variable attenuators, bare fiber adaptor with magnetic clip and Telecordia GE-468 qualified directional optical taps/power monitors.



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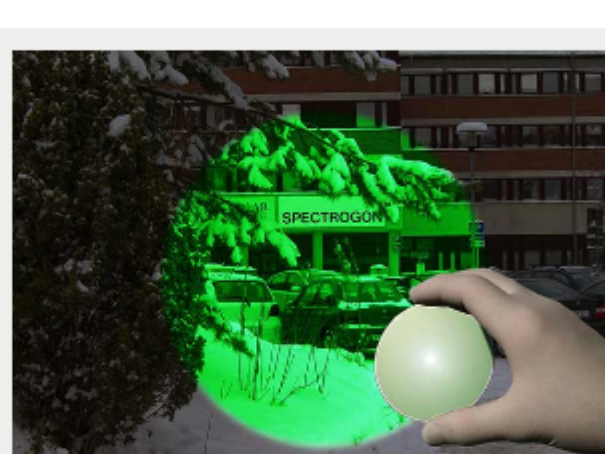
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Low-Cosmetic Defect IR Filters for Thermal Imaging

From: **Spectrogon US**

Spectrogon manufactures infrared filters and windows with high transmission, high rejection outside the passband, and introducing low cosmetic defects – while maintaining excellent coating uniformity --- for thermal imaging applications such as cryogenically cooled IR detectors and for uncooled microbolometers. Our filters and windows range in dimension from Ø6.0 to Ø200.0 mm with dicing capabilities down to as small as 1.0 x1.0 mm.



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Piezo Nanopositioning Systems

From: **Mad City Labs Inc.**

Mad City Labs offers a complete product line of high precision piezo nanopositioners, micropositioners, and single molecule microscopes. Our nanopositioners feature proprietary PicoQ[®] sensors yielding picometer precision and outstanding low noise performance. Applications: photonics, astronomy, metrology, optical and magnetic tweezers, lithography, interferometry, and super resolution microscopy. Please visit Booth 359 and discover more about our micro-to-pico scale positioning and instrument solutions.



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NEW SLM High Power Capabilities

From: **Meadowlark Optics Inc.**

New High Power Handling options are available for our high speed (up to 500 Hz), high resolution (1920 x 1152) Spatial Light Modulators (SLMs). All of Meadowlark's reflective backplanes incorporate analog addressing with high refresh rates to provide the lowest phase ripple SLMs available. Users can select standard or high-speed liquid crystal for optimal performance for wavelengths from 405 – 1550 nm.



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POLSNAP NIR Stokes Polarimeter

From: **Hinds Instruments Inc.**

The measurement of polarization properties has been Hinds Instruments' specialty for over 40 years. The new POLSNAP NIR Stokes Polarimeter offers a compact alternative to our research-grade Stokes Polarimeter. POLSNAP has a data acquisition rate of 4 Stokes Vectors per second, low signal-to-noise (2000 samples per second), a wavelength range of 900-1600nm, communication via USB and Serial SCPI, and all electronics and optics are in a single housing.



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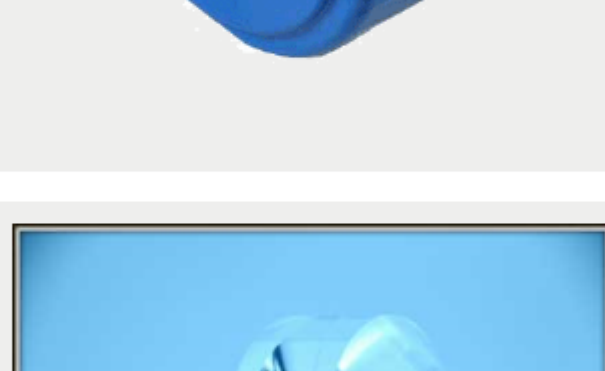
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Optics for High Power

From: **Optimax Systems Inc.**

Optimax has developed superior fabrication and coating capabilities for advanced optics designed for use in systems for directed energy, high-power lasers and deep ultraviolet. We've developed highly-engineered processes strictly controlled for fabrication, cleaning, coating, and packaging resulting in:

- Low absorption
- High laser damage threshold
- Long lifetime



We enjoy a good challenge – how can we help you?

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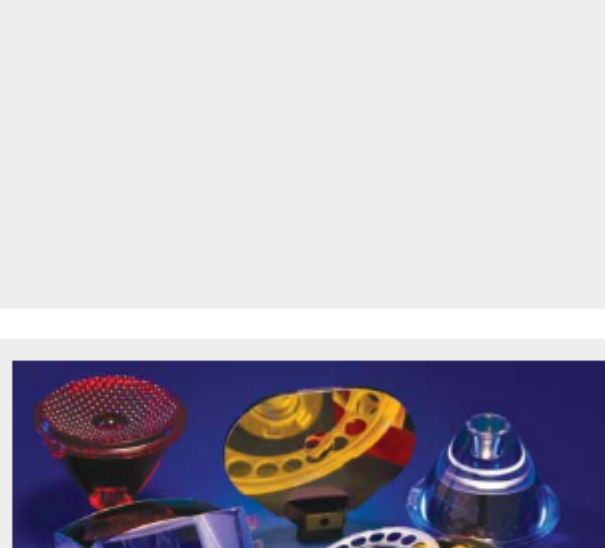
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Precision Polymer Optics

From: **GS Plastic Optics**

GS Plastic Optics works with executives and program managers to solve complex optical challenges. We manufacture high-performance injection molded polymer optics designed to help customers improve their competitiveness and market share. Our in-house team consists of experts in diamond-turning, thin-film coating, mold fabrication, and opto-mechanical assembly. We have all of the advanced metrology equipment needed to control performance and quality.



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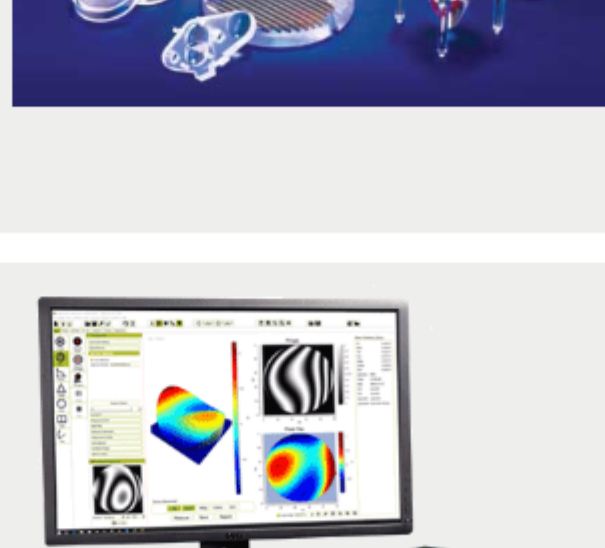
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See More, to Higher Accuracy

From: **Apre Instruments**

APRE S-Series interferometers give you peak performance for form and mid-spatial frequencies. 4.2 Megapixel, diffraction limited imaging with <0.1% image distortion, and unprecedented λ/20 accuracy even at 650 fringes/aperture!

Available in 50-, 100-, and 150-mm native aperture sizes with beam expansion options up to 600-mm, and a full-line of accessories to meet your manufacturing, alignment and testing needs. Ship better products, on time, with peace of mind.



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Fast Precision Mueller Polarimetry

From: **Hinds Instruments Inc.**

Hinds Instruments' 4-PEM Mueller Polarimeter calculates all 16 Mueller Matrix elements without moving parts in 1/10th of a second. Accurate measurements of complete polarization properties for: scientific optical components with complex internal structure; laser crystals; LCDs with complex layers; isomorphous crystals; anisotropic crystals; chemical and biological anisotropic optical materials; anisotropy induced by electric or magnetic fields. Available system orientations include transmission, reflection, or transmission and reflection. Customized versions available.

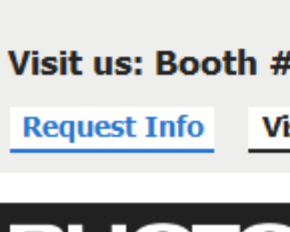


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