Tuesday, April 16, 2024

sneak PREVIEW

PHOTONICS MEDIA photonics.com

SPIE Defense + Commercial Sensing 2024

SPIE Defense + Commercial Sensing to Bring Security Sensing to DC-Area

SPIE's annual showcase for mission-critical sensing technology and innovation heads to the DC Metropolitan Area for a five-day run from April 21-25. The Defense + Commercial Sensing (DCS) show will play host to over 250 exhibitors and run more than 1200 presentations located at the Gaylord National Resort & Convention Center in National Harbor, Maryland.

Read More

.: Featured Exhibitors

Photonic Solutions from UV to IR

From: DRS Daylight Solutions Inc.

Daylight Solutions, a commercial portfolio under Leonardo DRS, designs and manufactures high-precision laser and photonics engines that operate throughout the ultraviolet, visible, near-infrared, and mid-infrared regions of the spectrum. Daylight's products are deployed worldwide, in markets that include aerospace & defense, life sciences, semiconductor materials inspection, quantum information science, and basic research. Visit booth #1013 to learn more about our capabilities.

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Image Quality Testing in SWIR

From: TRIOPTICS GmbH

IR lenses require a suitable measurement system to test their image quality. When optics operate in SWIR spectrum, a suitable measurement system is required to test their image quality. With a measurement accuracy of ±0.03 MTF and reproducibility of ±0.01 MTF, the ImageMaster® HR 2 with SWIR upgrade makes the difference meeting high requirements even for small apertures. Visit us at Booth #618.

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Optical Filters for SWIR

From: Chroma Technology Corp.

Chroma produces SWIR filters that work through the range of wavelengths while blocking unwanted signals. They are sputter-coated optical filters designed for remote sensing to optimize the signal-to-noise ratio. Their center wavelengths are from 380 to 2800 nm, narrow transmission bands, flat-top transmission, and OD4 off-band blocking. Produced on high-quality/low-cost substrates that remain insusceptible to industrial, atmospheric, or astronomic environments. Most of these will be listed in our Machine-Vision, filter category. Visit us at Booth #1214.

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SenS 1280 OEM & Full HD SWIR Sensor

From: New Imaging Technologies (NIT)

SenS 1280, HD resolution SWIR camera with new OEM version is available with a new low form factor for easy integration into diverse systems. This camera is equipped with NIT's SWIR sensor (1280 × 1024 pixels @ 10 µm pixel pitch), exhibiting the best SNR and sensitivity of the market (low noise 30e-). And, introducing a new full HD resolution and high-performance SWIR sensor (1920 × 1080 pixels @ 8 µm pixel pitch). Visit us at Booth #1232.

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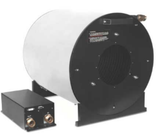
Measure High-Power Lasers to 120 kW

From: MKS Ophir, Light & Measurement

Measuring and controlling laser power is the only way to achieve reproducible results. The Ophir® 120K-W Laser Power Sensor measures very high power lasers from 10 - 120 kW. The sensor features a unique compact design with a 200-mm aperture and less than 1% backscatter. It's designed to measure near IR, Nd:YAG, and fiber lasers in industrial materials processing and military directed-energy applications. Download the specs now. Visit us at Booth #903.



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Quantum Light Sources

From: OZ Optics Limited

OZ Optics is excited to introduce a new line of waveguide-based quantum entangled photon sources with unprecedented brightness. A compensation-free and self-balanced interferometric scheme is implemented to produce high-quality polarization entanglement and hyperentanglement. Aimed at emerging quantum photonics industries and ambitious researchers, these compact sources are presented as plug-and-play and integrable devices. They operate at room temperature and generate pairs within visible and telecom spectral ranges. Visit us at Booth #1102.

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Ultra-Thin Wafers, Shims & Spacers

From: Valley Design Corp., Headquarters

Valley Design is an AS9100D certified, ITAR registered, USA manufacturer of ultra-thin wafers, substrates, and precision shims & spacers sized to micron level tolerances. Ultra-thin parts are optically polished 3 Angstroms in sizes from 1 cm square to as thin as 10 - 15 µm and in larger diameters to 50 - 75 µm thick. Valley laps, polishes, dices, and 3/4/5 axis CNC machines fused silica, optical glass, ceramics, aluminum nitride, Macor, sapphire, metals and many others. Visit us at Booth #1226.

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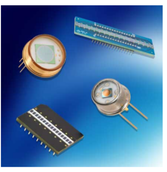
Light Sensing Solutions

From: OSI Optoelectronics Inc.

OSI Optoelectronics is a leading provider of advanced optoelectronics and electronic assemblies. These technical elements are key to enabling critical functions such as analytics and monitoring, test and measurement, communication and tracking, and imaging solutions in a wide variety of applications for aerospace, defense, military, medical, and commercial industry. Contact us for more information. Visit us at Booth #422.



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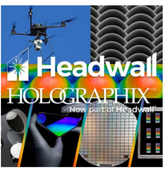
Spectral Img Systems & OEM Optics

From: Headwall Photonics Inc.

Headwall offers complete hyperspectral imaging systems for remote sensing applications, and OEM systems, sensors, and components for your own instrumentation. We have experience with projects for air and space. Holographix, now part of the Headwall Group, leverages exclusive replication technology for high-performance yet lower-cost nano- and micro-optics including all kinds of gratings, microlens arrays, diffractive waveguides. Proudly made in the USA. Visit us at Booth #1325.



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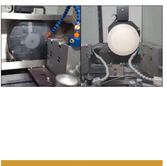
Turning FLIR Optics to the Next Level

From: Lambda Research Optics Inc. (USA)

With the latest generation of Nanotech's 450ULPLv2 (3-axis), Lambda can support all your FLIR needs with diamond-turned lenses (Ge, Si, CaF2, ZnSe, Cleartran, Al, Cu) as a complete package including high-efficiency AR coatings from 2 to 16 µm. Lambda offers large-size diamond-turned optics from 5 to 400 mm; irregularity (1/2 fringe for Ø 150 mm); <1/2 fringe up to Ø 150 mm; and surface roughness <30 Å RMS. Visit us at Booth #927.



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Diamond Point Turning

From: Reynard Corporation

Reynard Corporation continues to expand its diamond-turning capabilities in both manufacturing and metrology. Focusing in the infrared spectrum, we work with a large variety of standard and exotic materials including III-V crystals and chalcogenides to produce custom precision spherical, aspherical, and freeform optical substrates. Combined with our advanced thin-film coating capabilities, diamond-turned optical filters, mirrors, and components are manufactured and validated in-house. ISO 9001:2015, Cybersecurity, and ITAR. Visit us at Booth #718.

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