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**PREVIEW**

**PHOTONICS**  
MEDIA [photonics.com](http://photonics.com)

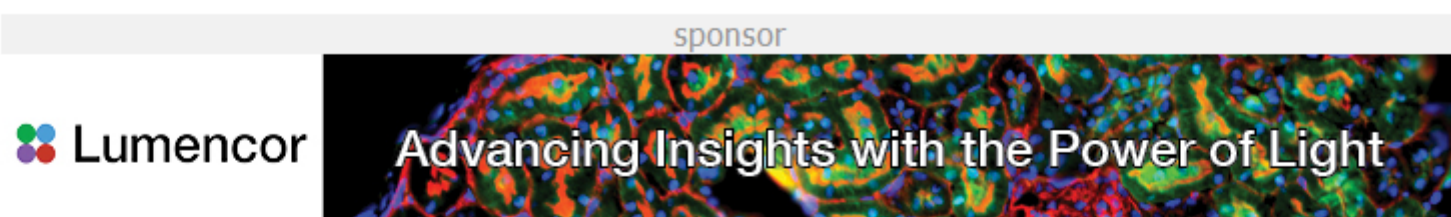
**SPIE BIOS 2023**



**SPIE BiOS to Highlight System Design and Early Diagnostics**

As part of SPIE Photonics West 2023, which will take place at the Moscone Center in San Francisco, the BiOS Expo will run the weekend of Jan. 28-29. The exhibition will include dozens of companies showcasing new photonic system components and the latest adaptations for optical technologies in medicine and the life sciences.

[Read More](#)



**Featured Exhibitors**

**New Auto Focus and Auto Turret**

**From: Etaluma Inc.**

Etaluma is proud to introduce new components to build around our OEM optics modules for microscopy. A 4-objective capacity automated turret, and automated Z-drive for use in compact instrumentation design. We've been built into ocean-based research modules as well as the international space station and everything in between. Challenge us. Visit us at BiOS booth #8042.

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**Laser Power Meter for Tight Spaces**

**From: MKS Ophir, Light & Measurement**

Need to measure high-power lasers in confined, humid, or dusty environments? Ophir® Ariel is an ultra-compact laser power meter for measuring high-power industrial lasers up to 8 KW. Designed for use in additive manufacturing, metal cutting, and welding, the Ariel power meter is a robust, battery-powered device that requires no water or fan cooling and is small enough to fit in the palm of your hand. Visit us at booth #927.

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**AURA Light Engine**

**From: Lumencor Inc.**

Lumencor's AURA Light Engine is a recognized industry leader in solid-state illumination for OEMs. Brightness, stability, and reproducibility are delivered in a compact, turnkey box. Proprietary, solid-state light sources and advanced electronics make this fluorescence excitation subsystem an ideal platform for instrument manufacturers, enabling precise quantitation and high-resolution imaging. Customization is available upon request. Why settle for archaic bulbs and weak LEDs when optimal performance and value are easily within reach? Visit us at booth #131.

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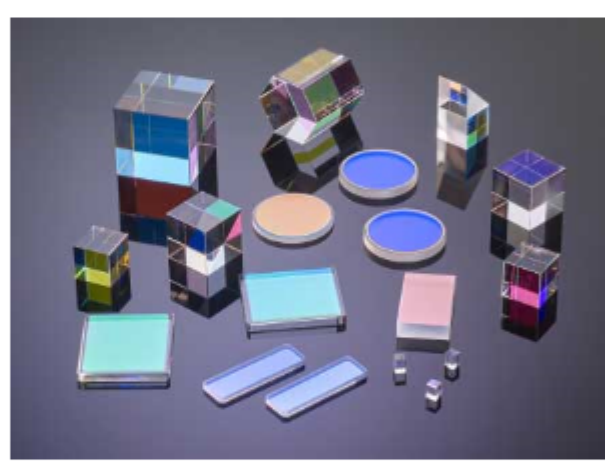
**High Energy Laser Polarizers**

**From: Perkins Precision Developments LLC**

PPD's polarizing plate beamsplitters and epoxy-free beamsplitter cubes are custom manufactured for both R&D and OEM applications. We utilize IBS coatings so our beamsplitters and beamsplitter assemblies are environmentally stable with no angle tuning required! PPD's beamsplitters feature low absorption and high-damage thresholds (20J!), making them ideal for use with high-energy Nd:YAG and fiber lasers and high-power CW laser systems. Visit us at booth #2026.

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**High Precision Retroreflectors**

**From: Spectrum Scientific Inc. (SSI)**

Spectrum Scientific's (SSI) hollow retroreflectors are manufactured from solid aluminum making them insensitive to vibration and movement. Our replication process allows for high volume repeatable performance down to <2 arcsec return beam accuracy. Mounting features and fiducials can be incorporated onto the retroreflector for easy alignment giving additional design and cost benefits. Visit us at booth #3316.

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**5 Axis CNC Machining All Materials**

**From: Valley Design Corp., Headquarters**

Valley Design has combined its 4&5 axis CNC machining experience with its unique capabilities in precision lapping, optical polishing, dicing and grinding, enabling us to produce complex parts with tolerances to micron levels. We can fabricate a wide variety of features and shapes in all materials from Glass, Fused Silica, Ceramics, Metals, and Sapphire. Features such as steps, slots, holes, channels, chamfers, pockets, counterbores, notches, and radii are readily producible. We also CNC machine Domes. Visit us at booth #1669.

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**40,000 Lines/Sec NIR Image Sensor**

**From: Hamamatsu Corporation**

New from Hamamatsu – the G14714-1024DG InGaAs linear image sensor offers exceptional speed, data rates, and resolution for fast, accurate foreign object detection in the near-infrared. With a 40,000 lines/s max high-speed line rate, 15 MHz high-speed data rate, 1024 pixels, and a CMOS chip with integrated charge amplifiers, shift registers, and timing circuit, this image sensor provides the high speed, sensitivity, and stability you need for ultra-fast foreign object detection. Visit us at booth #1127.

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