

sneak PREVIEW



SPIE PHOTONICS WEST – San Francisco, CA

February 16-18

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



San Francisco in Lights

The Moscone Center in San Francisco is the place to be this month, when Photonics West comes to town. But this isn't the only exciting place to be in the city by the bay. In this issue of Sneak Preview — Photonics West Edition #2 — Photonics Media Senior Editor Justine Murphy looks at some other unique things happening around San Francisco, namely in the arts community.

The Embarcadero district in particular is bringing art to light (literally) with the Flaming Lotus Girls' Soma art installation, and

Illuminate's Bay Lights display (created by world-renowned artist Leo Villareal) across the San Francisco Bay Bridge.

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WORLD OF
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Featured Exhibitors

LAZERMaster™ Laser Splicing System

From: **AFL**

AFL's LAZERMaster is a glass processing and splicing system that uses a CO₂ laser heat source rather than electrodes, ensuring repeatable performance and low maintenance, and eliminating electrode or filament maintenance and instability. Splicing or adiabatic tapering can be performed with glass diameters of 2.3 mm or more. The high resolution optical analysis system works in conjunction with onboard firmware for fully automatic splicing, tapering and other glass shaping processes.

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1GHz Spaced Frequency Comb

From: **LASER QUANTUM**

The taccor comb is an extension to the successful range of Laser Quantum 1GHz lasers, enabling a complete, turn-key frequency comb. In partnership with Menlo Systems, the taccor comb is fully stabilised using XPS800-E feedback loop electronics, providing an electrical output signal at carrier-envelope offset (CEO) frequency with at least 40dB signal-to-noise ratio in 300kHz bandwidth. This significantly enhances SNR for heterodyne beat measurements or direct frequency comb spectroscopy applications.

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Wide Range, High Speed Wavemeters

From: **TOPTICA PHOTONICS, INC.**

The robust, compact HighFinesse/Ångstrom high precision wavelength meters are designed for everyday control of pulsed and CW laser sources. They can be operated with very low light intensity coupled through an easy-to-use optical multi-mode fiber. Optical elements and electronics are housed in a compact, thermally insulated casing. The flexible design of our wavelength meters allows integration of additional optical components and software modules - even years after purchase. Customization is enabled for your specific application requirements.

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XPLOR 100 3D Inspection Station

From: **M3 MEASUREMENT**

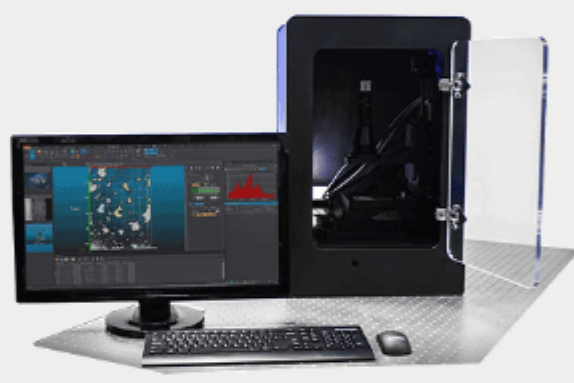
The XPLOR 100 is a fully automated metrology device designed for measurement and analysis of bubbles and inclusions for optical substrates in the Visible and NIR wave-bands (works for most IR glasses).

This instrument enables full quality assurance and reports to guarantee your incoming and outgoing material meets specifications. XYZ resolution of +/- 1um. Sample size up to 100mm X 100mm X 100mm.

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Esco's Optical Engineering Tool

From: **ESCO OPTICS**

Stop by Booth 4230 in the North Hall to preview and download Esco Optics' new optical engineering application. It is cross functional on all mobile and desktop platforms. You can create, design, customize and order directly from our catalog all in one place.

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High Power Temperature Controllers

From: **ARROYO INSTRUMENTS**

The 5400 Series TECSorce High-Power Temperature Controllers bring TEC power to a whole new level! With up to 960 Watts of TEC power, the 5400 powers even the most power-hungry applications. Capabilities including multiple simultaneous sensor inputs, digital I/O, and an analog output further extend the power of this new instrument. Housed in a compact enclosure with simple controls and bright VFD display, the 5400 will satisfy your demanding requirements.

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DataRay Inc. Announces WinCamD-LCM-THz

From: **DATARAY, INC.**

With an active area of 11.3 x 11.3 mm, and 5.5 μm pixels (4x smaller than competing bolometer-based cameras), the camera is ideally suited to both CW and pulsed THz laser beam profiling.

DataRay's best-in-class software linearizes the non-linear response to THz radiation. A global shutter with auto and electronic trigger options simplify pulse capture. Port-powered operation and compact, 20 mm deep format simplifies its use in compact THz systems.

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New IR-Enhanced CCD Camera

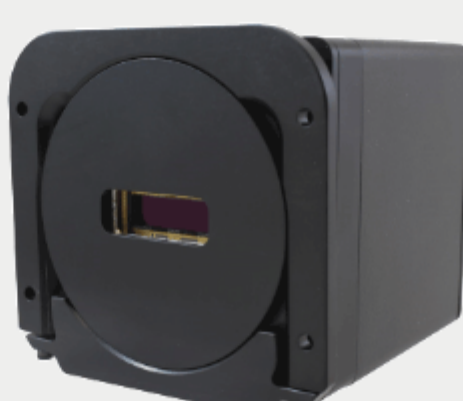
From: **CRITICAL LINK, LLC**

Critical Link's newest MityCCD camera features Hamamatsu's S11501 sensor, with superior near-infrared (NIR) sensitivity and the latest in scientific image sensor technology. The sensor's superior performance at wavelengths longer than 800 nm delivers advantages beyond the previous generation of CCDs. The camera includes both a DSP & FPGA for on-board image processing, and is available in open and enclosed body styles.

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PHOTONICS MEDIA



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BIOS Expo, Booth 8515, February 13-14, Moscone West
Photonics West, Booth 904-905, February 16-18, Moscone South

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