January 2025

Greetings and Best Wishes for a Healthy and Successful 2025!

As we kick off the new year, we're excited to reconnect with many familiar faces at our major trade show event SPIE Photonics West 2025 in San Francisco. You can find us in the Moscone Center at **Booth #8342 for BiOS** (January 25-26) and **Booth #3340 for Photonics West** (January 28–January 30). Please stop by to catch up and see our latest product offerings. Here are some of the new additions to the **Carmel X-series** and the **Mendocino** platform of ultrafast fiber lasers, that will be featured in our booth.

Carmel X-series – New AOM Options Including the pre-chirp compensation

The Carmel is now offered AOM pulse picker inside a compact laser head with < 95 fs pulse widths at output wavelengths of 780 nm. The X-780-AOM now offers as a new option: the ability to full integrated AOM pulse picker and incorporate a negative pre-chirp of up to -17,000 fs^2 in the output pulses. Its AOM pulse picker has throughput of > 80%, an ON-OFF Ratio > 30 dB, and a modulation bandwidth > 1 MHz (preliminary specification). The X-series represents the highest power, most compact, fiber-based femtosecond lasers on the market today. Each version features an all air-cooled architecture with a small 2U rackmount controller connected via a robust armored cable to an ultra-compact laser head.

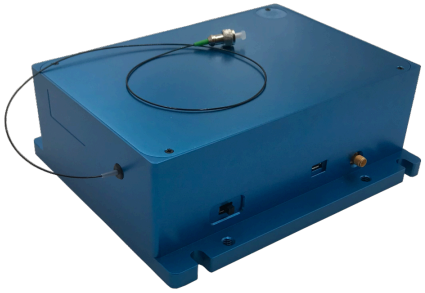
· Ultra-short pulse widths (down to < 90 fs)
· Output of 515 nm, 780 nm, 1030 nm, or 1550 nm
· Optional AOM and negative GVD pre-chirp
· All air-cooled, no chiller required
· Ultra-compact laser head with armored cable (more than 6x smaller than competitive fiber laser systems)

Carmel X-780-AOM

The user-friendly package, wide operating temperature range (17-38°C), and full remote system control and diagnostics make it the preferred source for integrating into OEM multiphoton imaging, 3D-photopolymerization, optical metrology, etc., platforms. The introduction of these new wavelength options and the first visible "handheld" green femtosecond further expands the application space.

Mendocino – OEM Modules with Long Fiber Delivery, Short Pulses Where You Need Them!!

For those customers working in harsh industrial settings, where femtosecond laser pulses are required in remote locations for quality control in thin film characterization and optical metrology, **the Mendocino OEM modules are now offered with up to 100 m of fiber delivery. Calmar has developed a proprietary dispersion compensation approach that enables optimized < 110 fs pulses to be delivered with up to 30 to 100 m of fiber at powers levels of 1 - 30 mW, for 780 to 1560 nm wavelengths, respectively.**



Mendocino 1560 nm OEM Module with Long Fiber Delivery

This is just a sampling of our most recent product introductions, so please stop by to learn more. And, of course, we'd really like to hear more about your unique application requirements and whether we can assist with a customized ultrafast fiber laser solution.

Regards,

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About Calmar Laser

Calmar Laser is an ISO 9001:2015 manufacturer of innovative ultrafast fiber laser and fiber amplifier solutions for the needs of industry, research institutions and universities. Since 1996 Calmar has been a key supplier and reliable OEM partner to customers for advanced high-speed test and measurement applications, optical communications, component characterization, material diagnosis, biomedicine and micromachining. Today, Calmar is an industry leader in supplying robust, compact, ultrafast fiber lasers designed for simple hands-off reliable operation. For more information about Calmar Laser, visit the Company's Web site at www.calmarlaser.com for product updates.