



January 2024

Greetings and Best Wishes for a Healthy and Successful 2024!

As we start the new year, we are looking forward to seeing many familiar faces this month at our major trade show event in San Francisco with hopefully another record-breaking attendance. You can find us in the Moscone Center at **Booth #8554 for BiOS** (January 27-28) and **Booth #3636 for Photonics West** (January 30 – February 1). 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.

- High power (up to > 2 W)
- Ultra-short pulse widths (down to < 90 fs)
- Output of 515 nm, 780 nm, 1030 nm, 1550 nm or 1750 nm
- Optional negative GVD pre-chirp, up to  $-180,000 \text{ fs}^2$
- All air-cooled, no chiller required
- Ultra-compact laser head with armored cable
- Up to 100x smaller than competitive systems



[Carmel X-515](#)

The Carmel is now offered with < 100 fs pulse widths at output wavelengths of 515 nm (X-515, > 0.4 W) and 1030 nm (X-1030, > 2 W). 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.

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 – New Benchtop Versions with Collinear 780 and 1560 nm Outputs

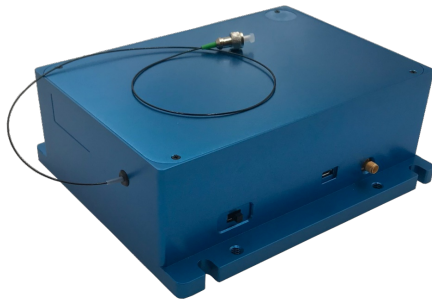
For those of you involved in the R&D and test and measurement sector, a new Mendocino benchtop version is now available. The medium power source offers < 90 fs pulses at either 780 nm (up to 140 mW) or 1560 nm (up to 350 mW) in a collinear beam path. The desired wavelength is selected through a simple switch on the external laser head. This is the perfect source for applications such as the development of quantum communication systems, generation of terahertz radiation with either GaAs or InGaAs photoconductive antennae, multiphoton microscopy, and more.



## New Dual Wavelength 780/1560 nm Mendocino Benchtop Source

### **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 1550 nm wavelengths, respectively.**



### Mendocino 1550 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,

Tony Lin, PhD

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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](http://www.calmarlaser.com) for product updates.*

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