

Greetings!

CLEO 2022 is just around the corner and we are thrilled to be attending our first tradeshow in two years. More importantly, we are looking forward to seeing many of you again, face-to-face, in San Jose. **We will be at Booth #318 during the CLEO exhibition (May 17-19)**, so please stop by if you are in town - we'd love to catch up.

As a preview, we would like to share some exciting updates for our Carmel X-series, the most compact high-power femtosecond lasers on the market.

Many of you have been asking for new wavelength options to address specific bio-imaging and micro-surgery applications and we are proud to let you know that **the Carmel X-1030 will be debuting later this year**. This new laser will have all the features and benefits that you currently enjoy with this unique product line, such as an ultracompact laser head, rack-mountable air-cooled power supply, over 1 W of output power and clean < 90 fs pulses. In addition, you will have the option to include negative group velocity dispersion (GVD) in the laser head to pre-compensate the output pulses for the positive GVD effects of downstream optical components. This ensures the shortest pulses are delivered to your target region.



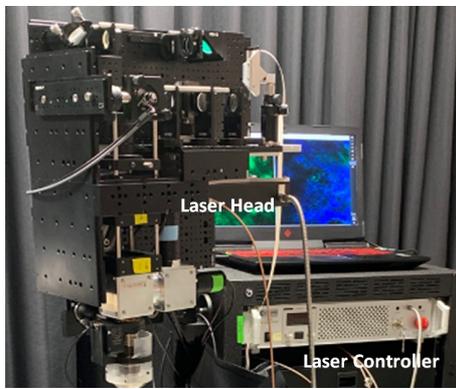
Coming Soon!

- Ultra-short pulse widths (down to < 90 fs)
- New 1030 nm wavelength option
- All air-cooled, no chiller required
- Ultra-compact laser head (up to 100x smaller than competitive systems)



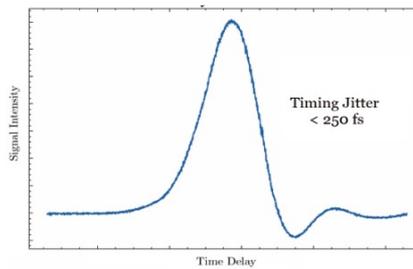
**Carmel X-1030**

Because of its unique combination of high power and small footprint, the Carmel X-series is the preferred femtosecond laser source for integration into customized bio-imaging set ups and 3D nanoprinting work stations. For example, researchers at UCI have successfully incorporated the X-780 system into a compact, fast large area multiphoton exoscope (FLAME) that enables rapid non-invasive imaging of the skin with molecular contrast and high spatial resolution. The microscope system extends the sub-micron resolution of multiphoton microscopy from sub-millimeter to centimeter scales. **The portability of the platform afforded by the Carmel X-780 is now extending its use and facilitating translation into the clinical setting**, see *Scientific Reports* 10, 18093 (2020): doi: 10.1038/s41598-020-75172-9.



**Carmel X-780 incorporated into the UCI FLAME system**

In the test and measurement sector, our low power benchtop **Mendocino** ultrafast fiber lasers continue to set the standards for low-jitter, high-speed receiver conformance and telecommunication component testing. **With output wavelengths of 780, 850, 1310 and 1550 nm, pulse widths as low as 0.3 ps and low-jitter GHz synchronization signal, these sources offer a range of performance parameters to meet demanding test requirements.** Please don't hesitate to contact us at [sales@calmarlaser.com](mailto:sales@calmarlaser.com), if you have a unique need.



### **Low Power 1310 nm Benchtop Mendocino and Timing Jitter of the GHz Synchronization Signal**

We look forward to sharing more details in a few weeks. As always, we are interested to learn about your application requirements and how we might assist with customized ultrafast fiber laser solutions, please stop by to chat.

Regards,

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