

October 2020

Calmar Laser hopes you and your family are healthy and safe in these challenging times.

We want to highlight these fiber lasers in this newsletter:

- Benchtop 780 / 1550 nm dual outputs, with convenient armored fiber cable beam delivery, <100 fs, 200 mW
- Benchtop 1310 nm with GHz low Timing Jitter Trigger Signal
- Carmel X-780 nm, 1W, < 90 fs, air cooled

There's a new addition to the Mendocino benchtop family of femtosecond fiber laser systems. It has been designed for researchers in the terahertz radiation field and features higher output power levels (up to 200 mW) and dual wavelength outputs (780 or 1550 nm). With convenient armored fiber cable beam delivery and a simple optical switch to select the required wavelength, it is the perfect source for the generation of terahertz radiation with either GaAs or InGaAs photoconductive switches.

The laser system offers friendly front panel controls and leverages Calmar's proprietary saturable absorber technology, which has been developed and perfected over a twenty-year period, to deliver reproducible mode-locking at turn-on with excellent stability and reliability.



Mendocino Dual Wavelength 780/1550 nm Benchtop System for Terahertz Generation

We have also expanded the low power Mendocino benchtop series for test and measurement applications. As the telecommunications sector rises to the challenge of exponential growth in internet data traffic from bandwidth intensive applications; work-from-home video conferencing, the roll out of 400 Gb/s fiber networks and the upcoming deployment of 5G are all driving demanding requirements for optical test sources. **The Mendocino benchtop series now offers wavelength options at 780, 850, 1310, and 1550 nm and pulse widths of < 0.3 ps with GHz synchronization signals and timing jitter as low as 200 fs, providing ideal optical sources for high speed transceiver conformance testing and photodiode characterization.**



Mendocino 1310 nm Benchtop System with GHz Low Timing Jitter Trigger Signal

For the industry-leading Carmel X-series of high power femtosecond fiber lasers, we continue to innovate with a new power stabilization feature, OptaPower™. This new accessory will be available later this year and will provide the highest level of power and pulse width stability for long term data acquisition in the most demanding applications. **The Carmel X-780 is the preferred platform for bio-imaging, 3D nanoprinting, cancer diagnostics/phototherapy and metrology applications. Its size, power and pulse width are unprecedented.**

- High power (up to > 1 W)
- Ultra-short pulse widths (down to < 90 fs)
- Wavelength options of 780, 1550 nm and more
- All air-cooled, no chiller required
- Ultra-compact laser head (up to 100x smaller than competitive systems)



Carmel X-780

Stay well and please contact us if you have any questions or have interest in customized ultrafast laser solutions for your specific application needs.

Regards,

Tony Lin, PhD
Calmar Laser
951 Commercial Street
Palo Alto, CA 94303
Email: sales@calmarlaser.com
www.calmarlaser.com

About Calmar Laser

Calmar Laser is an ISO 9001:2008 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 <http://www.calmarlaser.com> for product updates.