

## Calmar Laser, Inc. Introduces the OEM Mendocino 780 nm Femtosecond Fiber Laser as a Seed Source for Ti:sapphire Amplifiers

**Sunnyvale, CA, May 3, 2010**---Calmar Laser Inc., a leading developer and manufacturer of ultrafast fiber lasers, has expanded its highly successful Mendocino family of femtosecond fiber oscillators with the introduction of a 780 nm OEM version (FPL-M2R), specifically designed for seeding Ti:sapphire amplifier systems.

The model FPL-M2R offers >10 mW of optical power at 780 nm with a pulse repetition rate of 30 MHz and a typical pulse width of 100 fs. It provides exceptional pulse-to-pulse stability, a pedestal-free pulse shape, and an output beam with roundness better than 90% and  $M^2 < 1.1$ . The laser does not require any chiller and is passively air-cooled. With a power requirement of less than 8 W (2-pin, +5VDC) and a compact design that is up to 65% smaller than competitive offerings, the FPL-M2R is the perfect seed source for Ti:sapphire amplifiers. Calmar's President and Chief Technology Officer, Dr. Tony Lin, commented "Calmar has long been a leading worldwide supplier of ultrashort pulse fiber lasers for both industrial and scientific end users. The FPL-M2R is a compelling solution that enables a strong entry into the high-power Ti:sapphire laser market".

Ti:sapphire amplifiers have become the work horse systems in research laboratories and in certain industrial applications wherever high energy, ultrafast laser pulses are required. However, these amplifier systems need a Ti:sapphire laser oscillator with a visible solid-state pump laser to produce the seed pulse for amplification. These seed sources typically require significant hands-on adjustment, considerable maintenance, and require the use of an external chiller. The FPL-M2R replaces this bulky front-end with a reliable, compact system that provides stable, hands-off operation. The outstanding stability of the FPL-M2R ensures exceptional amplified performance. Although the FPL-M2R has been designed as an OEM style seed source for Ti:sapphire amplifiers, it can also be used in laboratories for the generation of terahertz radiation, nanolithography, multiphoton microscopy, metrology, measurement and testing, etc.

Calmar will be demonstrating the latest member of the Mendocino family during the CLEO Expo, in San Jose, May 18<sup>th</sup>-20<sup>th</sup>. Lin indicated, "Calmar has continued to invest heavily in research and development throughout the economic downturn. We are committed to delivering innovative and high quality products that build value for our customers. We are now seeing the benefits of our investment and are very confident that our current and future product portfolio will provide solid growth for our organization over the next several years. The FPL-M2R is one of a number of products we will introduce this year".

### **About Calmar Laser**

Calmar Laser manufactures innovative fiber laser and fiber amplifier solutions for OEM, industrial, medical and scientific applications. 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, transmission, 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.

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