CALMAR LASER

Ultrafast Fiber Laser Technology

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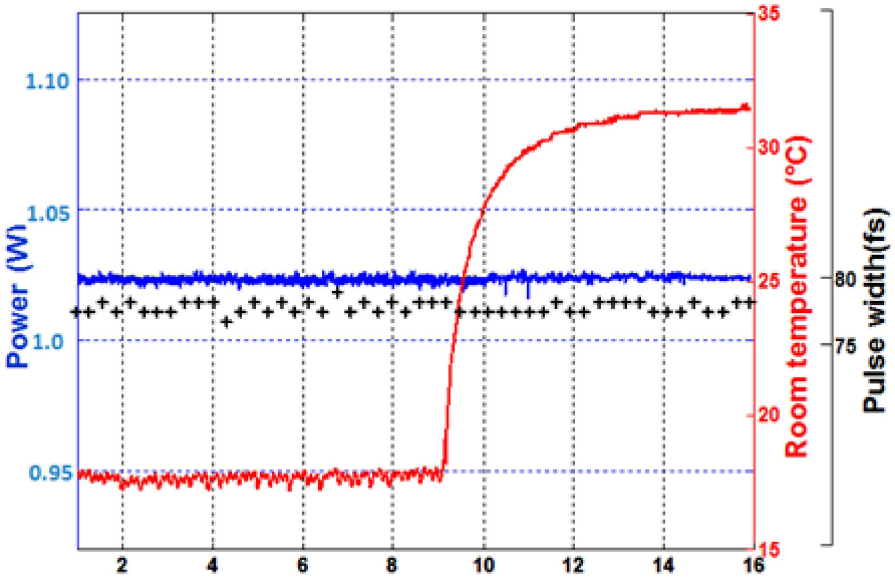
Greetings!

We're sorry that we are not going to be able to meet up face-to-face at our key photonics shows this year but remain hopeful that we'll be back in 2022. In spite of all the challenges of the past 12 months, we are pleased to report that we have maintained our aggressive product development roadmap.

This update will focus on our market-leading Carmel X-series of femtosecond fiber lasers, which offer some of the highest power levels and shortest pulse widths in the industry's most compact package. Many of you are using these systems for nonlinear microscopy, 3D nanoprinting, cancer diagnostics/phototherapy and metrology applications, so are familiar with their outstanding stability and reliability. But now, that performance just got raised to another level with the introduction of **OptaPower™,** a new power and pulse width stabilization system.

INTRODUCING OptaPower™
A New Power and Pulse Width Stabilization System



OptaPower™ is designed for those customers that are trying to measure incredibly small signal levels and require hours of data acquisition. It ensures ultra-stable power and pulse width performance from the Carmel for hours irrespective of any variation in the ambient temperature. Over a room temperature change of 17 to 32°C, OptaPower provides a factor-of-two improvement in the rms pulse width stability and an order of magnitude improvement in rms power stability.

FIND OUT MORE

NEW Carmel X-1750 Laser

Attention Neuroscientists: there's a new addition to the Carmel family!

Designed for deep tissue brain imaging, the X-1750 laser is the first dedicated femtosecond source designed for operation in the near infra-red tissue high transmission window.

- High power (up to > 1 W)
- Ultra-short pulse widths (down to < 100 fs)
- Wavelength of 1750 nm and more
- All air-cooled, no chiller required
- Ultra-compact laser head

For those working in the neuroscience area, there's a new addition to the Carmel family, the X-1750. Designed specifically for deep tissue brain imaging, the Carmel X-1750 offers over 1 W of power at 1750 nm with pulse widths < 100 fs. Because of reduced scattering and absorption, the wavelength region between 1600 and 1850 nm offers a unique high transmission window for brain tissue (Ref. L. Shi, A. Rodriguez-Contreras, Y. Budansky, Y. Pu, T. A. Nguyen, and R. R. Alfano, J. Biomed. Opt. 19, 066009 (2014)). **This is the first dedicated femtosecond source designed for operation in this near infra-red region and provides the potential for multiphoton images at unprecedented penetration depths.** The Carmel X-1750 offers the same outstanding performance as other members of the X-series family, all in a hand-held package with a secondary 1550 nm output port.

FIND OUT MORE

Please don't hesitate to contact us if you have any questions about these new

systems or any of our other ultrafast fiber laser sources. And of course, we always interested to learn about your requirements for a customized solution.

For more information, call **(650) 272-6980**
or email **contacts@calmarlaser.com**.

CONTACT US

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