

Calmar Laser, Inc. Introduces Cazadero, a Femtosecond Fiber Laser Chirped Pulse Amplifier System

Sunnyvale, CA, January 15, 2010---Calmar Laser Inc., a leading developer and manufacturer of ultrafast fiber lasers, has released a new Cazadero, femtosecond fiber laser chirped pulse amplifier system.

The model FLCPA-03U offers >10 μ J of optical pulse energy at 1030 nm with a pulse repetition rate of up to 200 kHz, and a typical pulse width of 500 fs. It provides exceptional pulse-to-pulse stability, a low-pedestal pulse shape, and an output beam with roundness better than 80% and $M^2 < 1.2$. The laser is completely air-cooled and designed for stable, maintenance-free operation in demanding OEM applications. A number of customizable options are available including the ability to deliver unique pulse sequences for specific material interactions.

Dr. Tony Lin, President and CTO of Calmar, commented, "The release of the Cazadero represents a significant step forward in expanding Calmar's product portfolio. This is our first product offering that allows customers to access stable, high energy, ultrafast optical pulses. Driven by a close cooperation with a number of OEM customers, Cazadero represents the outcome of a concerted research and development effort over the past year or so". The performance parameters of the Cazadero have been carefully tailored to address a number of unique materials processing applications.

Ultrafast lasers offer a number of advantages over conventional sources for laser micromachining applications. The key benefit is the deposition of energy into materials in a very short time period, before thermal diffusion can occur. This leads to extremely clean cuts with minimal collateral damage. However, the problem is that traditional high energy, ultrafast lasers are bulky, complicated systems that require continuous maintenance for optimum consistent performance. Calmar ultrafast fiber lasers provide dependable short pulse generation and Cazadero's all-fiber architecture ensures long term reliable and reproducible performance. The system will excel in a wide range of applications such as biophotonics, ophthalmic photorefractive procedures, micromachining, nanomaterials processing, nonlinear optics, and ultrafast spectroscopy.

Calmar will be demonstrating the Cazadero model FLCPA-03U during the Photonics West, in San Francisco, January 26th-28th. Please stop by our booth **#529** to discuss your application needs and assist you in providing the best laser solution. To schedule a specific appointment time, please contact Dr. Peter Hu.

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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