

# PRESS RELEASE

January 16<sup>th</sup>, 2008



## FEMTOSOURCE™ scientific™ XL 500

### **FEMTOLASERS Produktions GmbH**

*is the premiere manufacturer of ultrafast, compact and reliable laser oscillator and amplifier solutions. Founded in 1994 in Vienna, Austria, the company's products and excellent services have evolved to be the first choice among OEMs and scientists worldwide for demanding applications and solutions. FEMTOLASERS state-of-the-art products offer technology of highest quality.*

### **"Setting New Standards in Ultrafast Technology"**

The **FEMTOSOURCE™ scientific™ XL 500** is the flagship of an entirely novel family of high power ultrafast laser systems. This laser system will revolutionize many applications by offering a unique combination of laser output parameters. An output energy level exceeding 0.5µJ and a pulse duration of less than 50 fs in combination with a repetition rate of greater than 5 MHz yields an unprecedented average power level of > 2.5 W and > 10 MW of peak power. The center wavelength is 800 nm.

Based on our patented dispersive mirror technology, in combination with our proprietary Chirped Pulse Oscillator (CPO) technology, the FEMTOSOURCE™ scientific™ XL represents a crossover between ultrafast oscillators and ultrafast amplifier systems, combining the advantages of both technologies, while omitting their disadvantages.

The CPO technology is based on our successful ultrafast oscillator technology, making complex Q-switched pump lasers, extensive cooling, high voltage and E-O switches obsolete. As a result, the system offers an excellent stability, user friendliness, line to laser output efficiency and compactness. The temperature stabilized laser head dimensions are 1240 x 540 x 208mm (49" x 21" x 8.2").

Applications include materials processing, THz generation, spectroscopy and many others in the demanding scientific environment. Processes, where ultrafast pulses and ultra high peak power combined with high power, stability and reliability are of advantage, will strongly benefit from the FEMTOSOURCE™ scientific™ XL.

Please ask for beam steering options including dispersive mirrors (DM), to make sure, that your laser pulses arrive undistorted at your target. For detailed information about the FEMTOSOURCE™ scientific™ XL product family and its accessories, please visit [www.femtolasers.com](http://www.femtolasers.com)

©2008 FEMTOLASERS Produktions GmbH

Fernkorngasse 10 | 1100 Vienna | Austria  
Legal Seat: Kleinengrsdorferstr. 24 | 2100 Korneuburg  
Reg. Number: FN 161156w | Reg. Office: Korneuburg  
CEO Andreas Stingl | [info@femtolasers.com](mailto:info@femtolasers.com)  
P: +43 1 503 7002 0 | F: +43 1 503 7002 99