High Q Laser - Press Release

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High Q Laser in Rankweil, Austria, presents the "femtoTRAIN™ Ti:Sapphire", the most compact, all-in-one, all-diode-pumped, Ti:Sapphire oscillator in the market.

The "femtoTRAIN™ Ti:Sapphire" offers femtosecond light pulses with a duration of <100 fs at a repetition rate of 73 MHz and an average power of up to 400 mW. It is available at fixed center wavelengths of 790, 800, 810, 850 or 870 nm, respectively. As an option the laser can also be operated at its second harmonic wavelength.
The "femtoTRAIN™ Ti:Sapphire" incorporates, at a footprint of only 53 cm by 20 cm (7.5 cm height), fs-resonator and pump laser in one monolithic housing. No external pump laser is needed and the laser can be easily used for your application. A semiconductor saturable absorber mirror (SESAM) assures passive and self-starting mode locking, offering a robust and stable system. In contrary to KL mode locking, saturable absorber mode locking leads to a very clean pulse train with a side band suppression of more than 50 dB.
Due to its compact size and high stability it is the ideal femtosecond laser source for nanostructuring applications like "Two-Photon Polymerization" (2PP) or imaging methods like Two-Photon Microscopy. Additionally, the *femto*TRAIN™ Ti:Sapphire is successfully used for low noise THz generation due to its clean pulse train.
The compact size, its hands-free and true turnkey operation and its attractive price makes the *femto*TRAIN™ an easy to use tool for scientists and researchers as well as for integrators in the industrial field.

Please contact us for more information
Rankweil, Austria. July, 2010

Images

Image1: *femto*TRAIN™ Ti:Sapphire – *most compat Ti:Sapphire oscillator for Nanostrucuring, Imaging Applications and THz generation*

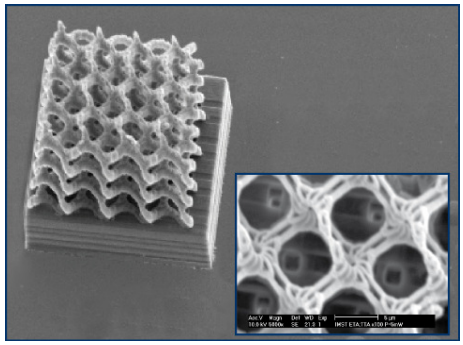

Image 2: Scaffold, generated by Two-Photon Polymerization with the *femto*TRAIN™ TiSa showing structure sizes in the sub-micron range (Image Courtesy: Dr. Jürgen Stampfl, TU Wien)

For more information on HIGH Q LASER call +43 (0)5522 82646 111 or e-mail Sandra.Stroj@highQlaser.at
HIGH Q LASER's Headquarter is located at
Feldgut 9, 6830 Rankweil, Austria.

For more than 10 years HIGH Q LASER has been a leading supplier of diode pumped pico- and femtosecond all-solid-state oscillators and amplifiers based on Direct Diode Pumping and Semiconductor Saturable Absorber Mode Locking.

High Q Laser –Think Ultrafast™