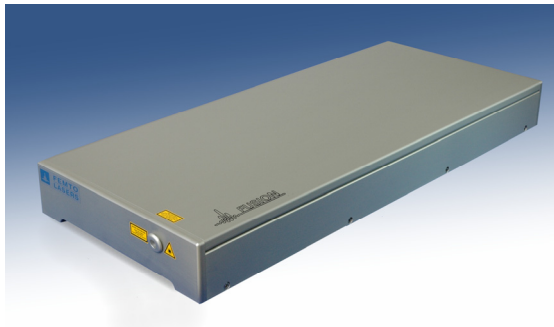


Introducing the FUSION™ series of ultrafast oscillators

Company: FEMTOLASERS Produktions GmbH

FUSION™ is a model range of ultra-compact Ti:Sapphire oscillators combining integrated design and yet customer accessibility ensuring maximum stability and ease of operation.



All FUSION™ models make use of our patented Dispersive Mirror (DM) Technology, which is specifically designed for broadband intracavity group delay dispersion compensation.

Our low-loss high-efficiency cavity design enables a broad range of output power levels with versions starting from 100 mW up to high end versions with more than 800 mW of mode-locked output power. All power levels are available with pulses of 10 fs and less in duration.

The extra compact footprint includes a high reliability pump module and offers utmost flexibility in custom specifications.

FEMTOLOCK™ repetition rate stabilization, tunability in bandwidth as well as custom center wavelength are a small selection of a rich list of features available with the FUSION™.

The FUSION™ is designed for demanding applications including seeding of amplifier chains, coherent THz generation, time resolved spectroscopy as well as multi-photon processes, benefiting from more than 1 Megawatt of peak power.

Introducing FEMTOSOURCE scientific XL™ 200

The FEMTOSOURCE scientific XL™ 200 is an enhanced version of the scientific XL™ for applications demanding even higher pulse energies - now more than 200 nJ at less than 60 fs are available.

The FEMTOSOURCE XL represents a new generation of high pulse energy ultrafast compact Ti:Sapphire oscillator systems and is based on our patented revolutionary chirped pulse oscillator (CPO) technology. In the XL CPO design a long (chirped) pulse circulates in an extended cavity allowing the pulse energy to build to extraordinarily high levels. With dispersive mirror (DM) technology (patented by Femtolasers) for low loss intracavity dispersion control, the broadest bandwidth directly from a high energy oscillator is guaranteed.

After recompression, the system offers the shortest optical pulses in combination with the highest pulse peak power and pulse energy commercially available in a compact, high repetition rate laser system.

