

## FUSION™ M1

The new benchmark for ultra-fast laser oscillators

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**FUSION™ M1** is the most powerful member of the ultra-compact Ti:Sapphire oscillator family. Maximum stability and ease of operation combined with cutting edge laser parameters from a compact laser oscillator are guaranteed. These attributes are achieved through an integrated high reliability pump module in combination with a low-loss high-efficiency cavity design. All FUSION™ models make use of FEMTOLASERS' patented Dispersive Mirror technology, which is specifically designed for broadband intracavity group delay dispersion compensation.

Mode-locked average output power exceeding 1W is now available with all features of a state-of-the-art ultrafast laser. FEMTOLOCK™ repetition rate stabilization, tunability in bandwidth and custom center wavelength control are just a selection of a rich list of features available with the FUSION™ M1.

The FUSION™ is designed for demanding applications such as seeding of amplifier chains, material processing, coherent THz generation, time resolved spectroscopy and multi-photon processes. All of these benefit from more than 1 Megawatt of peak power provided by the FUSION™ M1.

### New system specifications !

Output power:	> 1 W
Pulse duration:	< 12 fs
Pulse energy @ 75 MHz:	> 13 nJ
Peak power @ 75 MHz:	> 1 MW

### FEMTOLASERS Produktions GmbH

*is the premiere manufacturer of ultra-fast, compact and reliable laser oscillator and amplifier solutions. Founded in 1994 in Vienna, Austria, the company offers products and excellent services which 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.*

**We LIVE in an ULTRAFST world™**  
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