

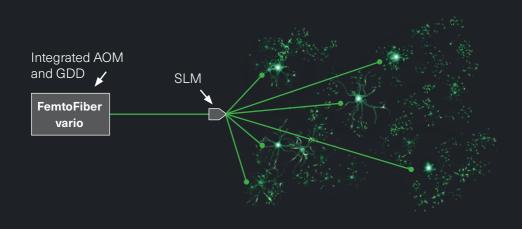
Compact, turn-key, and optimized for 2-Photon Optogenetics

1030 nm

Femtosecond Fiber Laser



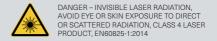
Excite more than 200 neurons simultaneously!







FemtoFiber vario 1030 HP

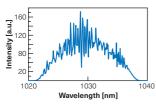


Laser Specifications*	
Center wavelength	1030 nm
Pulse duration	< 300 fs (typ. 250 fs)
Average output power	> 8 W
Repetition rate	0.02 10 MHz (tunable)
Dispersion precompensation (GDD)	-40 000 +1000 fs ²
Integrated power control	> 1 MHz AOM modulation bandwidth
Beam shape	TEM ₀₀ , M ² < 1.2
Beam divergence	< 1 mrad
Beam size (1/e²)	Ø 2.3 (typ.)
Linear polarization	> 100:1 (> 20 dB), vertical
Output coupling	Free space
Dimensions laser head	105 x 189 x 380 mm ³ (H x W x D)
Weight laser head	< 10 kg

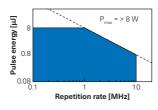
^{*)} Subject to change without notice

Key Features

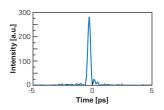
- Powerful excite more than 200 neurons simultaneously
- Fully turn-key with integrated AOM and GDD
- No noise-stress for animals thanks to fully air-cooled design
- · Compact laser design saving valuable table space
- · Low cost of ownership using robust & reliable fiber-laser technology







Maximum pulse energy as function of repetition rate.



Typical retrieved pulse shape.