



PROSPECTIVE
LASERS

FSX-SERIES FEMTOSECOND LASER SYSTEM

COMPACT, TURN-KEY, FLEXIBLE

The FSX-series is a flexible, turn-key and compact femtosecond laser system perfectly matched for multi-photon imaging. The system is engineered for sustained 24/7 operation. Temperature fluctuations between 18 °C and 28 °C have no influence on the performance, mitigating concerns about misalignment over time and operating environment.

The modular concept of the FSX-series offers three standard models. Each model can be upgraded with various options or fully custom designed.

The configurability of the systems allows the unit to be tailored to the application and budget, maximizing the benefits of the utility.

	FSX-1040	FSX-Dual	FSX-Tune*
Single-wavelength: 1040 nm	✓	✓	✓
Second wavelength: 750 - 1300 nm (fixed in range)	X	✓	X
Second wavelength: 750 - 1300 nm (tunable in range)	X	X	✓

* Available in Q4/2021.

VERSIONS & SPECIFICATIONS

	FSX-1040	FSX-Dual	FSX-Tune*
Single-wavelength: 1040 nm	✓	✓	✓
Second wavelength: 750 - 1300 nm (fixed in range)	X	✓	X
Second wavelength: 750 - 1300 nm (tunable in range)	X	X	✓
Pulse duration	<130 fs		
Average output power per wavelength	>8 W	>1 W @1040 nm >400 mW @ 2 nd wavelength	>1 W @1040 nm >400 mW over tunable range
Pulse energy	>12,5 nJ	>5 nJ	>5 nJ
Pulse repetition rate**	80 MHz		
Beam quality	M ² <1.1, TEM ₀₀		
PER	>23 dB		
Pointing stability	30 µrad rms (12 h) const. temperature, <5 µrad / °C 18 - 28°C		
Laser output	Collimated free space		

Environmental

Warm-up time	<10 min
Operation temperature	18 °C - 28 °C
Storage temperature	-10 °C - 65 °C

Electrical

Power supply	90 – 264 VAC, 47 – 63 Hz
Power consumption	<500 W

Cooling

Laser system	air cooled
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Mechanical

Size laser head	280 x 398 x 156 mm ³
Weight laser head	10 kg
Size laser controller	280 x 420 x 156 mm ³
Weight laser controller	10 kg

Options / Warranty

Built in AOM for power control and galvo flyback blanking.
Dispersion pre-compensation.
The standard 24-mths warranty is included in the price. This can be extended up to 5 years in total.

* Available in Q4/2021.
** Other repetition rates on request.

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