

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	\checkmark	X
Second wavelength:	750 - 1300 nm (tunable in range)	X	X	\checkmark

VERSIONS & SPECIFICATIONS

		FSX-1040	FSX-Dual	FSX-Tune*		
Single-wavelength:	1040 nm	√	\checkmark	√		
Second wavelength:	750 - 1300 nm (fixed in range)	X	\checkmark	X		
Second wavelength:	750 - 1300 nm (tunable in range)	X	X	\checkmark		
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		M² <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			

	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.

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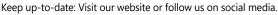
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^{*} Available in Q4/2021.

^{**} Other repetition rates on request.