

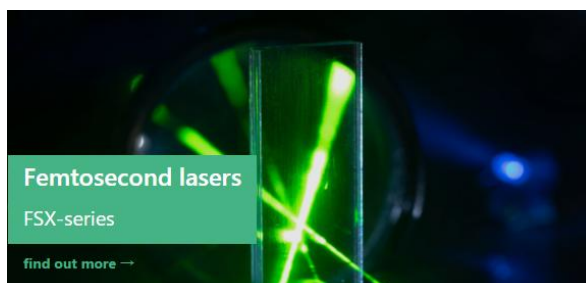
Femtosecond lasers FSX-series

Product Introduction:UNABLE, 24/7 OPERATION, EXTENDED

FEATURES

Product Features:

- Perfectly matched for 2P/SHG/THG-imaging
- Air-cooled
- Compact form-factor
- Turn-key
- Works out of the box
- Sustained 24/7 performance
- Energy efficient
- Easy to transport
- Single and dual wavelength



Product Contents:

Our lasers are designed to fit any multi-photon imaging system. We will customize them for your specific needs.

Due to the air-cooled design, our lasers have a short warm-up time and can be put into operation anywhere - completely independent of the equipment and lab environment on site.

The compact design makes it easy to use the laser for almost any workspace. The small unit controller can be easily concealed away from the rest of the experiment. The laser head is free and flexible to conveniently fit almost anywhere in the setup.

The lasers are designed to be setup at any indoor location and are plug-and-play.

Our laser is shipped fully assembled and according to your specifications. No need to install, tune or setup with a technician.

Temperature fluctuations between 18 °C and 28 °C have no influence on the performance, mitigating concerns about misalignment over time and operating environment.

No excessive heat and quiet operation help save energy and reduce costs over time.

Due to the compact and robust design our lasers can be transported easily from one laboratory to another which makes sharing very easy.

Both single and dual wavelength outputs are available for our laser devices. there is also the additional option of a second fixed or tuneable wavelength which allows every user to choose the best possible option for their specific application scope.

	FSX-1040	FSX-Dual	FSX-Tune*
Single-wavelength:1040nm	√	√	√
Second wavelength:750-1300nm(fixed in range)	×	√	×
Second wavelength:750-1300nm(tunable in range)	×	×	√
Pulse duration		<130fs	
Average output power per wavelength	>8W	>1W@1040nm >400mW@2 nd λ	>1W@1040nm >400mW over range
Pulse energy	>100nJ	>12.5nJ@1 st λ >5nJ@2 nd λ	>12.5nJ@1 st λ >5nJ@2 nd λ
Pulse repetition rate**		80MHz	
Beam quality		M ² < 1.1, TEM ₀₀	
PER		>23dB	
Pointing stability		30μrad rms(12h)const. temperature, < 5μrad/°C 18-28°C	
Laser output		Collimated free space	

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

Electrical	
Power supply	90-264VAC,47-63Hz
Power consumption	<500W
Cooling	
Laser system	Air cooled

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

Options/Warranty
Built in AOM for power control and galvo flyback blanking
Dispersion pre-compensation
Warranty up to 5 years in total
Water cooling.