

515/532nm Picosecond Fiber Laser

The Y-Fiber series ultrafast lasers utilize high-performance rare-earth fibers as the working medium and integrate all-polarization-maintaining mode-locking and frequency-doubling technologies to achieve stable output of picosecond pulse lasers in the 515/532nm band. They can start up automatically and operate stably for a long time, featuring narrow laser pulses and high peak pulse power. These lasers are suitable for scientific research in fields such as fluorescence lifetime microscopy and nonlinear optics.

Customization is available for parameters such as pulse width, power, and repetition frequency.

Features

Full polarization-preserving optical path
Self-starting and maintenance-free
Green light picosecond

Application

Fluorescence lifetime microscopy
imaging OPA pump laser
Seed laser

Optical indicators	unit	Typical value	Note
Central wavelength	nm	515/532	Customizable
Spectral width	nm	0.3	Customizable
Pulse width	ps	10/20/50/10	Customizable
Output power	mW	1 to 20	Customizable
Power instability	-	±2%	At 25°C, after the machine has been turned on for 5 minutes
Repetition frequency	MHz	15 to 10	Customizable
Single-pulse energy	nJ	>0.5	
The stable time for mold locking after startp	s	<20	
Laser polarization state	-	Linear polarization	
Laser output mode	-	Spatial output	
Preheating time	min	<1	

Electrical and environmental parameters	Desktop	Module
Control mode	button	button
Synchronous telecommunication signal interface	SMA	SMA
for Electricity	100~240V AC, <30W	5V DC, <20W
ruler inch	330(W)×398(D)×112(H)mm	200(W)×121(D)×65(H)mm
Working temperature	5~35°C	
Working humidity	0 to 70%	

Ordering Information/Model						
PSPL	Wavelength(nm)	Pulse width(fs)	Power(mW)	Repetition frequency(MHz)	Output format	Encapsulation form
	515/532	10/20/50/10	10/50/20	15/50/10	FS=spatial light	B=desktop M=module