



780nm Femtosecond Pulse Fiber Laser

STFSPL Series



2024 V1

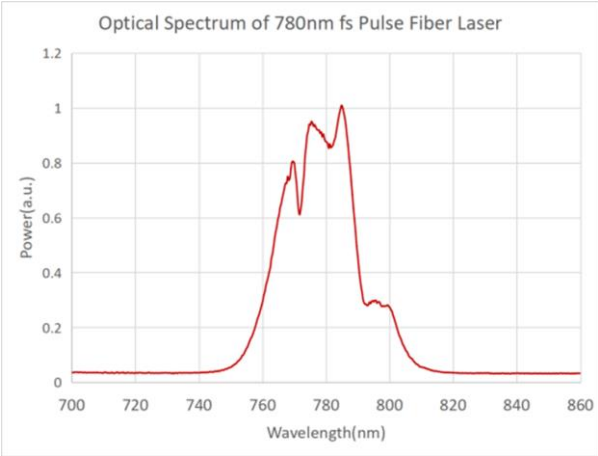
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780nm Femtosecond Pulse Fiber Laser

SIMTRUM's STFSP series ultrafast lasers utilize the latest femtosecond laser and optical frequency doubling technologies to achieve stable 780nm femtosecond pulse laser output. Featuring one-button startup and long-term stability, these lasers offer ultra-narrow pulses and high peak power, making them ideal for applications in optical frequency combs, terahertz waves, and multiphoton imaging.

*Customizable parameters include pulse width, power, and repetition frequency.



Pulse AC Curve

Features

- Femtosecond Pulse width
- Self-start and maintenance-free
- Full polarization and high stability

Application

- Multiphoton excitation imaging
- Two-photon absorption
- Ultrafast laser phenomena

Specifications

Optical Parameters	Unit	Typical Value	Remark
Wavelength	nm	780±30	
Spectral Width	nm	20	Customizable
Pulse Width	fs	<100	Customizable
Output Power	mW	>30	Customizable
Power Stability	-	< ±1%	
Repetition Frequency	MHz	80	Customizable
Repetition Frequency Stability	Hz	< 100	
Single Pulse Energy	nJ	>0.4	
Polarization	-	Line polarization	
Optical Mode	-	Free Space	
Preheat Time	min	< 1	

Specifications

General Parameters	Desktop	Module
Control Function	Keystroke	Keystroke
Remote Control Port	SMA	SMA
Power Supply	AC100~240V, <30W	DC5V, <20W
Dimensions	260(W)×280(D)×120(H)mm	200(W)×121(D)×65(H)mm
Operation Temperature	5 ~ 35°C	
Operation Humidity	0~70%	

Ordering Information/Product Code						
Series	Wavelength (nm)	Pulse Width (fs)	Average Power (mW)	Repetition Frequency (MHz)	Fiber	Packaging
STFSPL	780	50/100/200/500	1/10/50/100	80/100	FS = Free Space	M - Module
						B - Desktop