1560nm High-Power Femtosecond Pulse Fiber Laser

The E-Fiber series high-power ultrafast laser integrates the latest femtosecond laser technology, uses high-performance rare earth fiber as the working medium, combines high-precision dispersion compensation technology and active servo control system, and achieves femtosecond in the 1.5μm band with an average power of 1 watt Pulse laser stable output. One-click self-starting and long-term stable operation. It has the characteristics of an extremely narrow laser pulse and high pulse peak optical power. It has a wide range of applications in the fields of the optical frequency comb, supercontinuum, terahertz THz, and so on.

* Accept customization of parameters such as pulse width, power, repetition frequency, etc.

Characteristics

- Pulse duration < 120fs
- Average Power = 1W
- Turn-Key Product
- ALL PM fiber Laser cavity

Applications

- Optical Frequency Comb
- Supercontinuum
- THz
- Ultra-faster Laser Research

Parameters	Unit	Typical Value	Remarks
Center Wavelength	nm	1560±10	
Pulse Duration	fs	≤120	Customizable
Average Power	W	1	Customizable
Power Instability	-	< ±1%	24h@25°C
Repetition Rate	MHz	80~100	Customizable
Pulse Energy	nJ	>10	
Polarization	-	Line	Vertical
DOP	dB	>20dB	
Output	-	Space Light	
M^2	-	<1.2	TEM00
Beam Diameter	mm	≤1.6	* $1/e^2$ Waist Diameter
Divergence Angle	mrad	<1.5	
Worm Up time	min	< 1	

General Parameters	Unit	Value	Remarks
Synchronous signal Port	-	SMA	
Operation temperature	°C	5 ~ 45	
Power Supply	-	AC 110~240VAC	Power <40W
Dimension	mm	330(W)×398(D)×112(H)	Desktop
Weight	kg	≤5	

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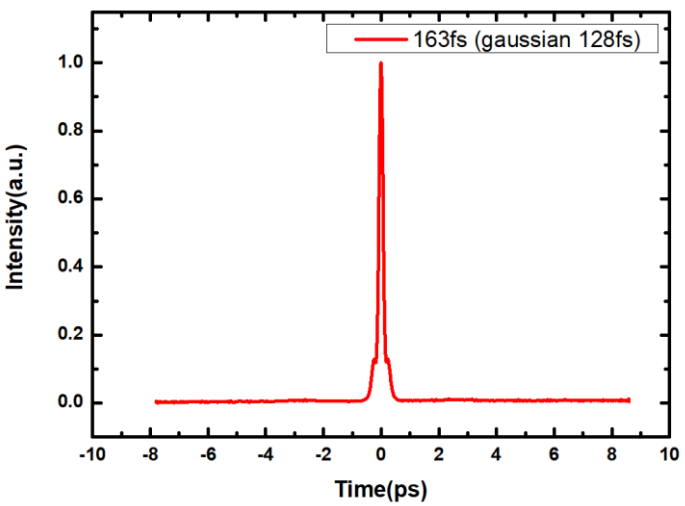
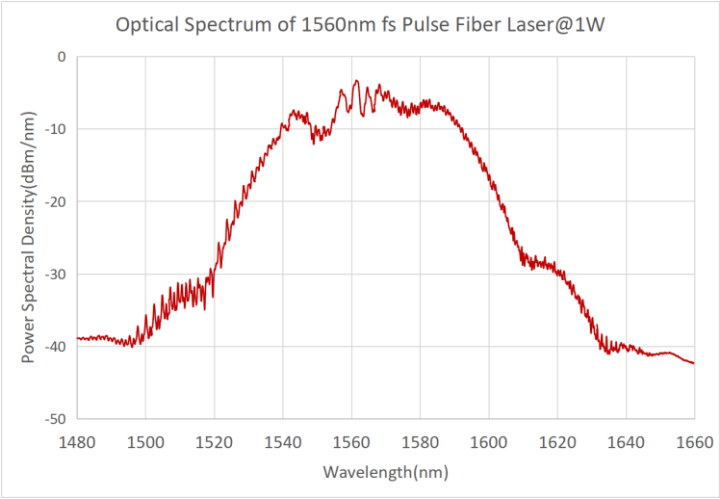


Autocorrelation Curve

Pulse Train



Optical Spectrum

Ordering Information/Model Number						
FSPL	WL(nm)	Pulse Duration(fs)	Power(mW)	Freq(MHz)	Fiber	Packaging
	1560	120	1000	80/100	FS – Space Light	B - Desktop

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