

SID-IR SERIES

Compact Infrared Picosecond Fiber Laser



Key features:



Tunable and adjustable pulse repetition frequency up to 2 GHz



Many wavelength available in IR



Ultrashort and fixed pulse duration < 35 ps



Multistage fiber amplifier from > 20 mW to > 20 W



Compact, turn-key master/slave system

SID product range integrates an innovative electronical pulse generation system which delivers ten's picosecond pulses.

The repetition is continuously adjustable from single-shot up to 2 GHz and many wavelengths are available.

SID systems fits perfectly any industrial and scientific application that requires master/slave synchronization and small footprint.

Typical applications:

- Seed for high power lasers
- Laser research
- Nonlinear optics
- Spectroscopy
- Bio-photonics



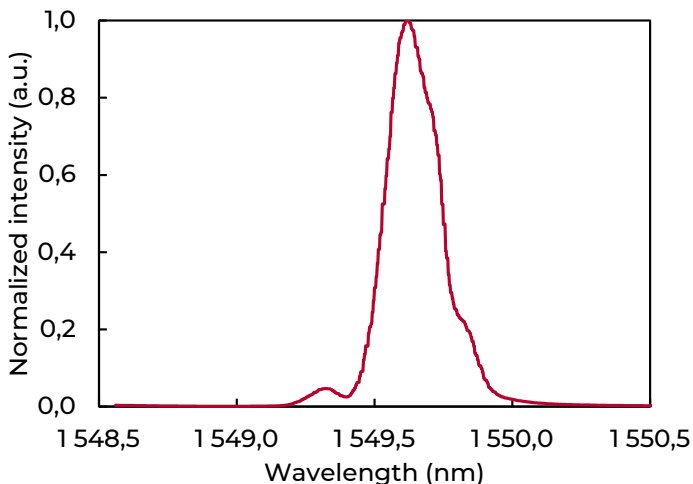
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Specifications

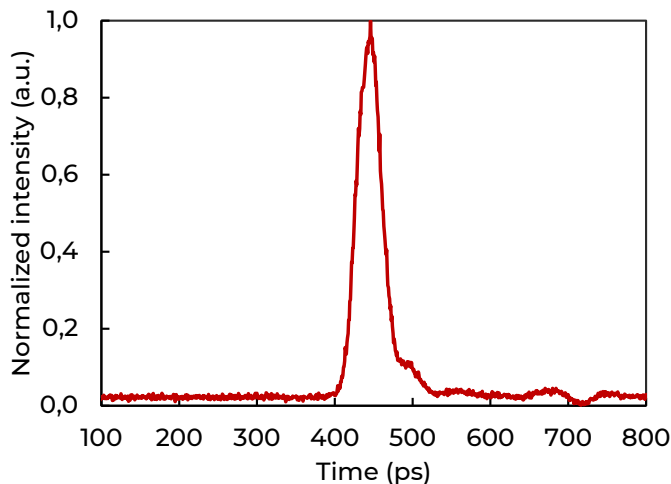
		SID-IR S	SID-IR M	SID-IR L	SID-IR XL
Central Wavelength	(1)	1030 nm, 1064 nm or 1550 nm, 1560 nm			
Avg. Output Power	(2)	> 20 mW	> 500 mW	> 5 W	> 20 W
Max pulse energy	(3)	> 1 μ J			
Power stability		< 2 % RMS			
Spectral bandwidth		< 1 nm, FWHM			
Pulse duration		Fixed, 15 to 35 ps, FWHM			
Timing jitter	(4)	< 10 ps RMS			
Repetition rate		Single-shot to 2 GHz, Burst capable			
Polarization		Linear, > 20 dB			
Ext. synchronization		Master/Slave			
Beam quality		Fibered output		Free-space output - $M^2 < 1,3$	
Cooling system		Air cooled			

(1) Other wavelength available upon request
 (2) Average power is depending on pulse repetition rate
 (3) Depends on pulse repetition frequency
 (4) Depends on clock or sync signal

Typical spectrum at 1550 nm



Typical 30 ps FWHM pulse shape



All information in this document is subject to change without prior notice. – Updated 01/2020

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