

# SID SERIES

## Compact picosecond fiber laser



### Key features:



Tunable pulse repetition frequency up to 2 GHz



Many wavelength available in IR and RED



Ultrashort and fixed pulse duration < 35ps



Multistage fiber amplifier from 40 mW to > 30 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 5 MHz 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:

- Advanced microscopy
- Spectroscopy
- Bio-photonics
- Nonlinear optics



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## Specifications

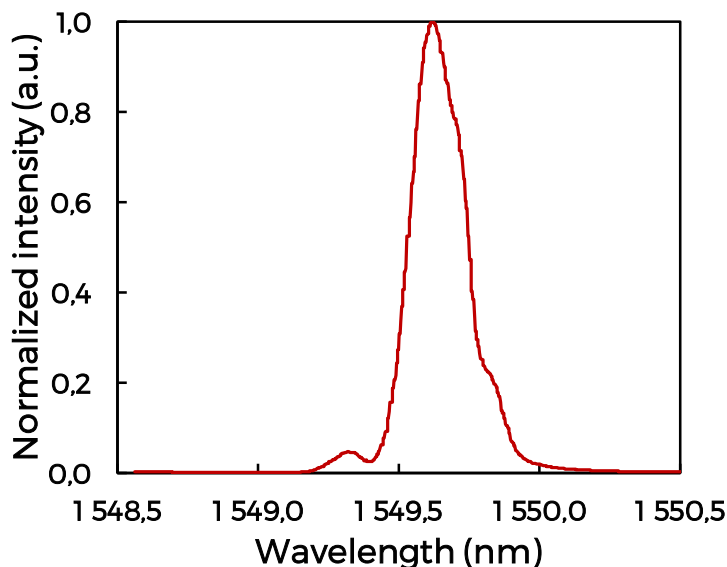
	SID S	SID M	SID L	SID XL
Central Wavelength*		1550 nm or 1560 nm		
Frequency doubling		775 nm or 780 nm		
Avg. Output Power**	40 mW	1 W	10 W	> 30 W
Power stability		< 2% RMS		
Spectral bandwidth		< 0,7 nm		
Pulse duration		35 ps		
Timing jitter***		< 10 ps RMS		
Repetition rate		5 MHz to 2 GHz		
Polarization		Linear, > 20 dB		
Ext, synchronisation		Master/Slave		
Beam quality	Fibered output		Free-space output - $M^2 < 1,2$	
Cooling system		Air cooled		

\* Other wavelength available upon request

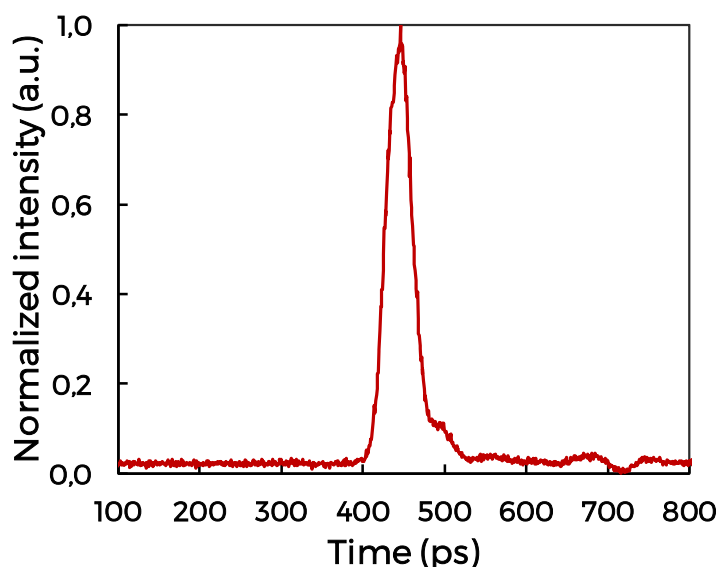
\*\* Typical average power in IR

\*\*\* Depends on clock or sync signal

Typical spectrum at 1550 nm



Typical 35ps pulse shape



All information in this document is subject to change without prior notice. - Updated 01/2019

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