SID-IR SERIES
Compact Infrared Picosecond Fiber Laser

Key Features:

- Tunable and Adjustable Pulse Repetition Frequency up to 2 GHz
- Many Wavelengths Available in IR
- Ultrashort and Fixed Pulse Duration < 35 ps
- Multistage Fiber Amplifier up 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 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
- → Quantum Applications

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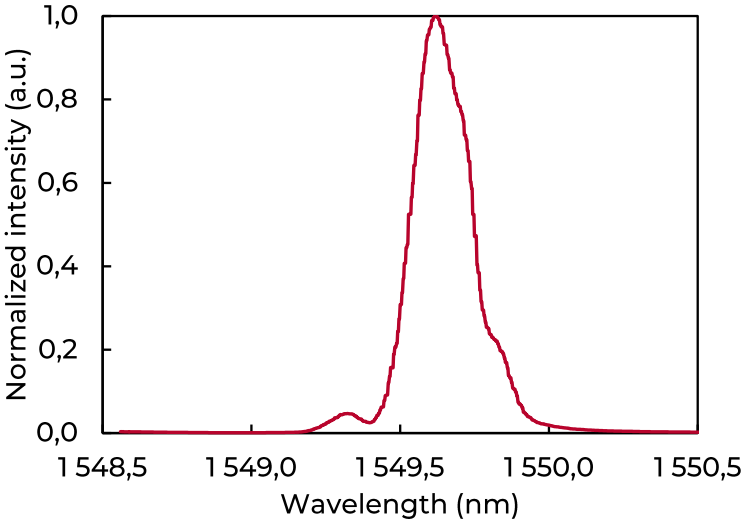
Specifications

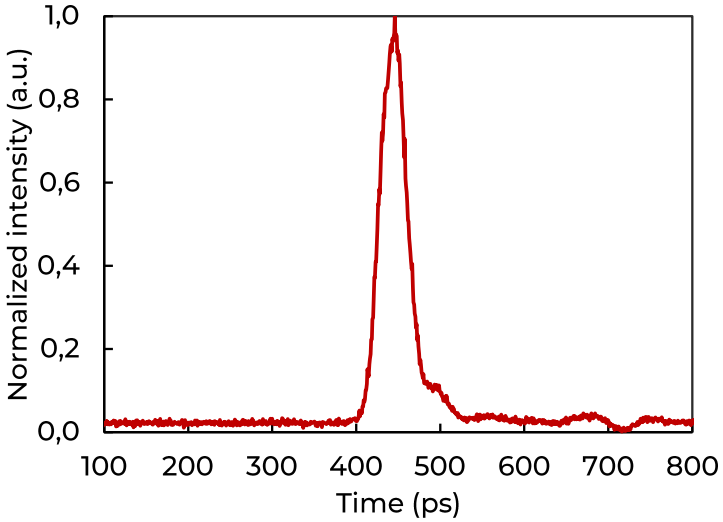
Central Wavelength	(1)	1030 nm, 1064 nm or 1550 nm, 1560 nm
Max. Avg. Output Power	(2)	Up to 30 W
Max Pulse Energy	(3)	> 1 µJ
Power Stability	(4)	< 5 % RMS
Spectral Bandwidth		< 1 nm, FWHM
Pulse Duration		Fixed, 25 ps +/- 10 ps, FWHM
Timing Jitter	(5)	< 3 ps RMS
Repetition Rate		Up to 2 GHz, Burst Capable
Polarization		Linear, > 20 dB
Ext. Synchronization		Master/Slave
Beam Quality		Fibered Output (for avg. power up to 1 W) or Free-space Output - M^2 < 1,3
Cooling System		Air Cooled
Laser Manager Software		Included (Windows® 7/8/10/11 required)
PC Interface		RS 232/USB or Ethernet
Dimensions		19” Rack, 5U

(1) Other wavelengths available upon request
(2) Depends on pulse repetition rate
(3) Depends on pulse repetition frequency
(4) Depends on clock or sync signal
(5) Depends on test duration and stability of ambient temperature

Typical Spectrum at 1550 nm



Typical 30 ps FWHM Pulse Shape



All information in this document is subject to change without prior notice. – Updated 01/2023

Don’t hesitate to contact us for more information:

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