

# 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

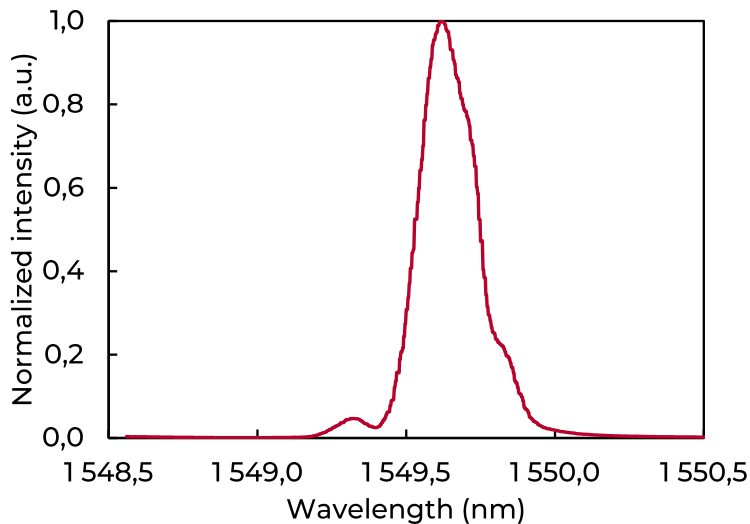


# SID-IR SERIES

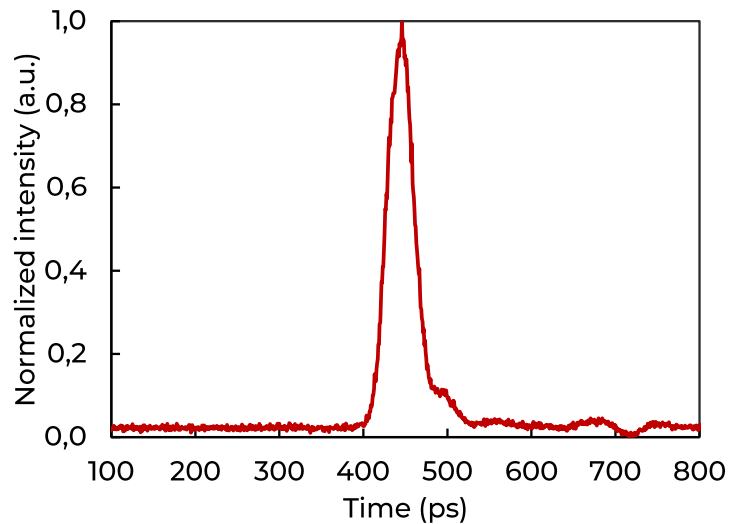
## Specifications

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 $\mu$ J
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
<p>(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</p>	

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:



PHONE: +33 6 17 03 32 16  
 EMAIL: [contact@irisiome-solutions.com](mailto:contact@irisiome-solutions.com)  
 WEB: <http://www.irisiome-solutions.com>  
 Cité de la Photonique – Bât Elnath  
 11, Avenue de Canteranne  
 33600 Pessac, FRANCE