

# MANNY-IR SERIES

## Highly Flexible Infrared Picosecond Fiber Laser

### Key features:



Tunable and adjustable pulse repetition frequency up to 2 GHz



Many wavelength available in IR



Tunable pulse duration from 35 ps to few ns



Multistage fiber amplifier from > 20 mW to > 20 W



Compact, turn-key master/slave system

**MANNY** product range integrates an innovative electronical pulse generation system which brings unprecedented features: **the pulse gating.**

Thank to this technology, pulse duration and repetition rate are flexible and tunable.

**MANNY** systems fits perfectly any industrial and scientific application that requires master/slave synchronization.

### Typical applications:

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



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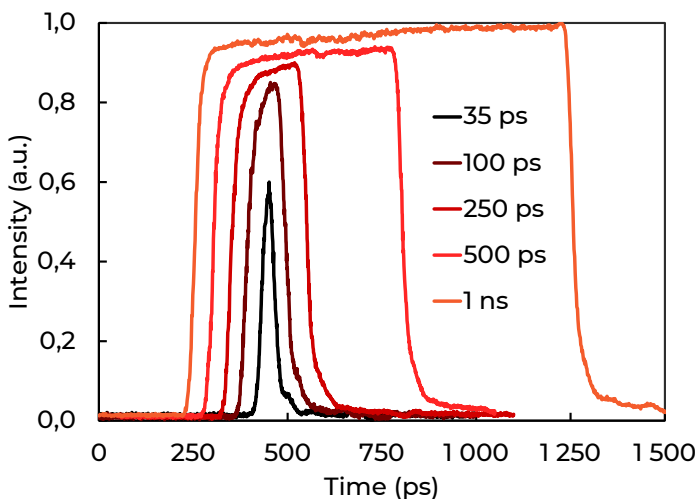
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## Specifications

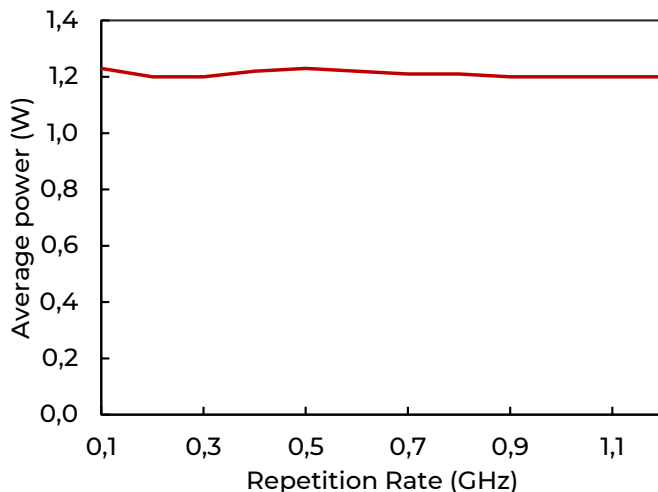
		MANNY-IR S	MANNY-IR M	MANNY-IR L	MANNY-IR XL
Central Wavelength	(1)	1030 nm, 1064 nm or 1550 nm, 1560 nm			
Avg. Output Power	(2)	> 20 mW	> 500 mW	> 5 W	> 20 W
Max pulse energy	(3)	> 1 $\mu$ J			
Power stability		< 2 % RMS			
Spectral bandwidth		< 1 nm, FWHM			
Pulse duration		Tunable and adjustable from 35 ps to few ns			
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

Pulse shape from 35 ps to 1 ns



Average power vs. repetition rate



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

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