

A new generation of ultrafast lasers

Mango

High repetition rate and high power optical parametric amplifier









Mango is an optical parametric amplifier platform to complement our high power industrial and high energy ultrafast laser family. This platform opens access to a whole new range of wavelengths at unprecedented repetition rate, average power and energy levels.



- # 1 Tunable from UV to mid-IR
- # 2 High energy and repetition rate
- # 3 Fully automated and sealed against dust OPA
- # 4 Air-cooled



Laser specifications

	MANGO	MANGO SP	MANGO HE
 Input power/energy	50 W / 500 μ J	50 W / 300 μ J	50 W / 30 mJ
 Output pulse energy	> 12 % of input energy at the peak	> 10 % of input energy at the peak	> 12 % of input energy at the peak
 Pulse duration	< 300 fs	< 90 fs	< 300 fs
 Repetition rate	Up to 2 MHz	Up to 1 MHz	Up to 5 kHz
 Wavelength	210 - 11000 nm	650 - 2500 nm	210 - 11000 nm
 Beam quality	$M^2 < 1.3$	$M^2 < 1.3$	$M^2 < 1.3$
 Spatial mode	TEM ₀₀	TEM ₀₀	TEM ₀₀
 Control	Fully automated	Fully automated	Fully automated

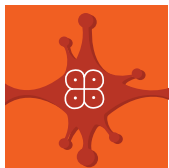


Specifications are subject to change without notice | © 03-2018 | 877-a

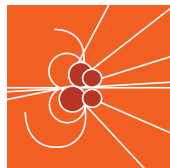
Applications



Ultrafast science



Multiphoton microscopy



Particle acceleration



THz Generation



Filamentation