

Mango

Industrial tunable optical parametric amplifier

The key to wavelength agility

Mango is a unique platform of optical parametric amplifier built to conform to the highest quality standards.

This system can deliver any wavelength from 210 nm to 11,000 nm from the same output port with the same polarization for ultimate ease of use.

Mango SP offers shorter pulses and complete dispersion management for applications requiring more peak intensity, such as 3P-imaging, or better temporal resolution.

Mango HE operates at much higher pump energies to drive processes requiring higher intensities while preserving broadband tuning.



Applications

Science:

- > 3-Photon Imaging
- > Time-resolved Spectroscopy
- > THz Generation

Features

- > Dispersion compensation
- > Tunable from deep UV to mid-IR
- > Repetition rate up to 2 MHz
- > Fully automated and sealed against dust
- > Air-cooled

Specifications

	Mango	Mango SP	Mango HE
Input Power / Energy	50 W / 8 to 200 μ J	50 W / 8 to 200 μ J	5 W / 30 mJ
Output Pulse / Energy	12% at the peak	10% at the peak	12% at the peak
Pulse Duration	< 200 fs	< 70 fs	< 300 fs
Repetition Rate	Up to 2 MHz	Up to 2 MHz	Up to 5 kHz
Wavelength	210 to 11,000 nm	325 to 2,500 nm	210 to 11,000 nm
Bandwidth	70 to 100 cm^{-1}	170 to 300 cm^{-1}	50 to 100 cm^{-1}
Control	Fully automated computer controlled		
Performance Monitoring	Integrated 24/7 monitoring and data logging of both pump laser and OPA performances		
Additional options	SHG Output and pump laser bypass		

Compatibility



Satsuma



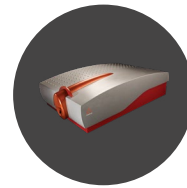
Tangerine



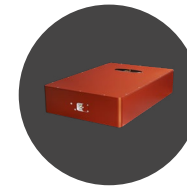
Yuja



Tangor



s-Pulse



Magma

