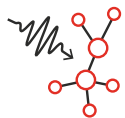


SUPERNOVA OPCPA

100W



- Cluster and gasphase dynamics



- Attosecond dynamics in solids and gases



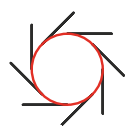
- Inspection in EUV lithography



- Strong-field physics
- Relativistic plasma physics



- Free-electron lasers



- Particle accelerators



- Laser user facilities



DISCOVER NEW FRONTIERS

The *Supernova* OPCPA is the most powerful tunable femtosecond laser on the market. Our flagship product is designed for the ultimate demanding applications.

AVERAGE POWER

20 W

100 W

WAVELENGTH OPTIONS

700 nm

3000 nm

PULSE DURATION

9 fs

900 fs

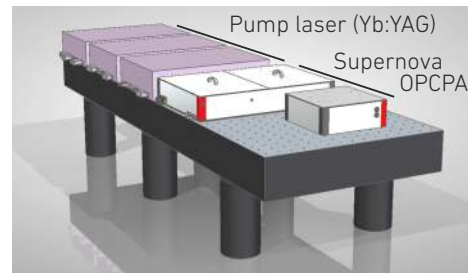
SUPERNOVA OPCPA 100W

PRODUCT SPECIFICATIONS

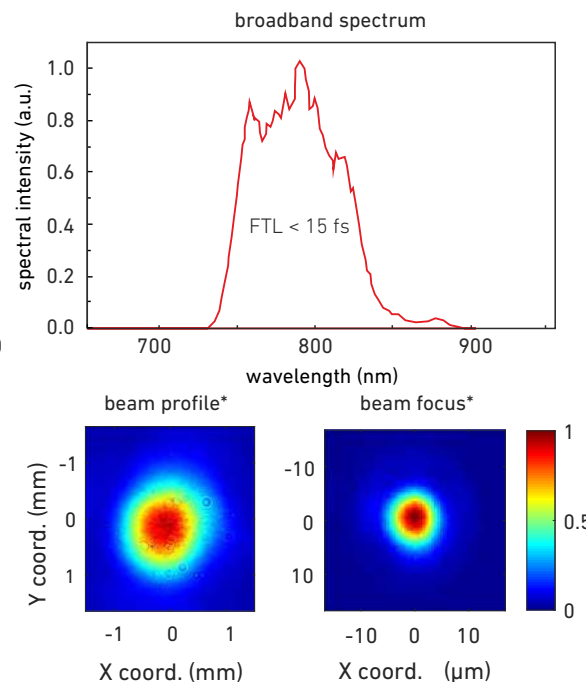
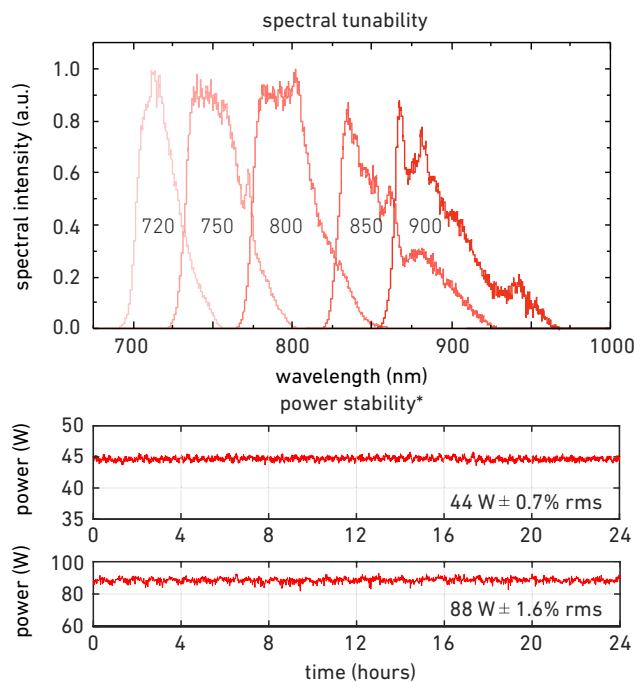
	SN-800	SN-1550	SN-2200	SN-3000
Central wavelength	700 - 950 nm	1400 - 1700 nm	1800 - 2400 nm	3000 - 3200 nm
Pulse duration (FWHM)	< 10 fs	< 50 fs	< 35 fs	< 100 fs
Average power		> 20 W / 100 W		> 10 W / 30 W
Pulse energy		> 1 mJ		> 300 μ J
Repetition rate	20 - 200 kHz			
Beam quality	$M^2 < 1.5$			
Product options	CEP stability, long-pulse, dual output, synchronization, HE high energy > 5 mJ			

HIGHLIGHTS

The **Supernova** OPCPA is our most powerful product with extremely short pulse durations. The full wavelength flexibility, options for multiple outputs and CEP stability allow tailoring it to custom multi-color experiments at highest average power and unprecedented stability over days. This allows leading scientists to push research, e.g. in attosecond science, material processing and ultrafast spectroscopy to new limits. The product is also available as high energy version (HE) with multi-millijoule pulse energies, pumped by Yb:YAG thin-disk lasers.



PERFORMANCE EXAMPLES



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Measurement data are examples. Specifications are subject to change without notice.
 *published in K. Meeseki et al. **Optics Letters** 44 (2019).
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