SUPERNOVA OPCPA 100W





DISCOVER NEW FRONTIERS

The Supernova OPCPA is the most powerful tunable femtosecond laser on the market.

Our award-winning flagship product is designed for the ultimate demanding applications offering extreme power, ultrashort pulses, dual output versions and optional CEP stability.

AVERAGE POWER

20 W ______ 100 W

WAVELENGTH OPTIONS

800 nm ----- 3000 nm

PULSE DURATION

9 fs ______ 50 fs

REPETITION RATES

20 kHz ----- 100 kHz



 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

PRODUCT SPECIFICATIONS

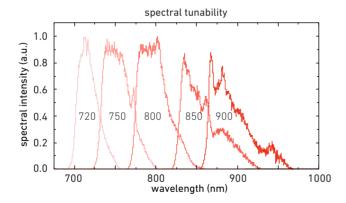
	SN-800	SN-1550	SN-2200	SN-3000
Central wavelength	800nm	1550 nm	2200 nm	3000 nm
Pulse duration (FWHM)	< 9 fs	< 35 fs	< 30 fs	< 50 fs
Average power	> 20 - 100 W			
Pulse energy	> 1 mJ	> 1 mJ	> 1 mJ	> 1 mJ
Repetition rate	20 - 100 kHz			
CEP stability	on request	on request	on request	on request
HHG extension	on request	on request	on request	on request
Pump laser	300 W - 1 kW			
Supernova HE at 1 kHz	on request	on request	on request	on request

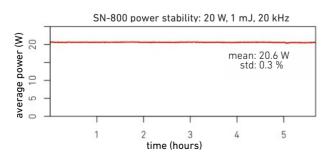
HIGHLIGHTS

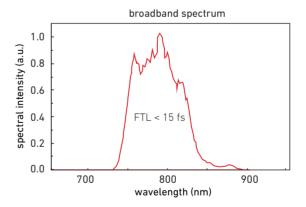
The Supernova OPCPA is our award-winning flagship product with extremely short pulse durations and a high temporal contrast. Wavelength flexibility, options for multiple outputs and CEP stability allow tailoring it to custom multi-color experiments at highest average power and unprecedented stability over days. This allows leading scientists to push research 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.

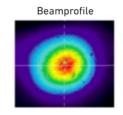


PERFORMANCE EXAMPLES









leasurement data are examples. Specifications are subject to change without n Convirbt 2000 Clase 5 Photonies

