SUPERNOVA OPCPA

- 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

Wavelength (nm)	800	1600	2200	3000
Power (W)		30	100	
Pulse (fs)	< 10	< 30	< 100	< 900

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

CLASS 5 Photonics

SUPERNOVA OPCPA

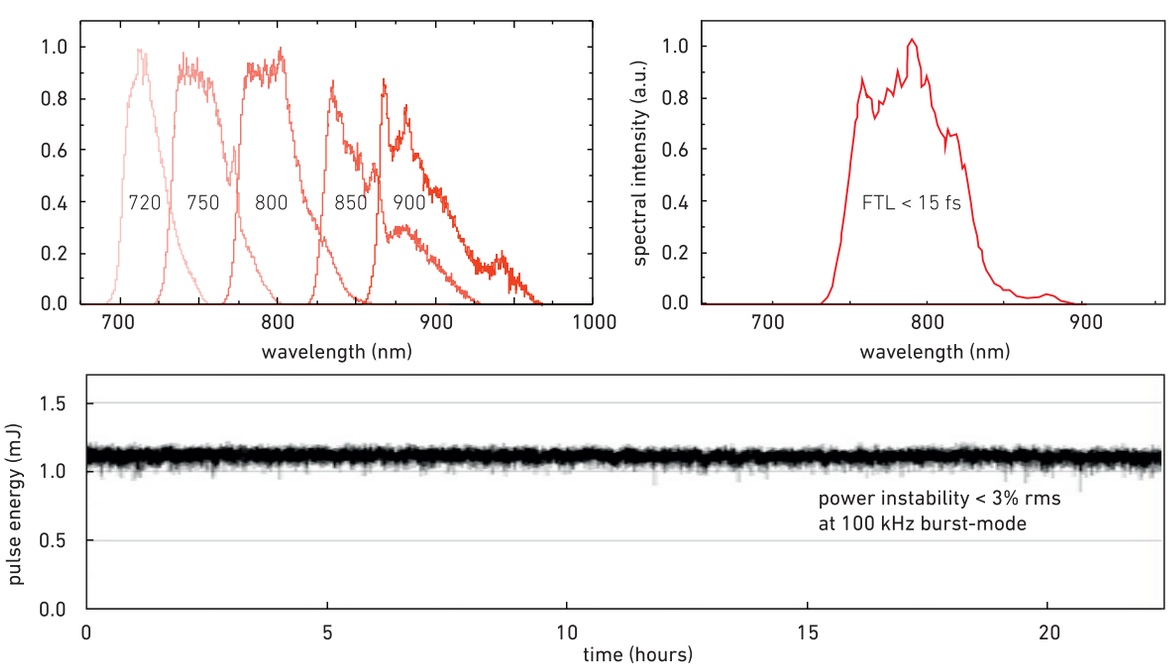
PRODUCT SPECIFICATIONS

	SN-800	SN-1550	SN-2200	SN-3000
Wavelength range	700 - 950 nm	1400 - 1700 nm	2000 - 2400 nm	3000 - 3200 nm
Pulse duration (FWHM)	< 10 fs	< 50 fs	< 40 fs	< 100 fs
Average power	> 30 W / 100 W			> 10 W / 30 W
Pulse energy	> 1 mJ			> 300 µJ
Repetition rate	20 - 200 kHz			
Beam quality	$M^2 < 1.5$			
Dimensions	2540 x 1200 mm^2			
Product Options	CEP stability, long-pulse, dual output, synchronization, phase-shaper, burst-mode			

HIGHLIGHTS

The Supernova OPCPA is our most powerful product with extremely short pulse durations. The full wavelength flexibility and options for multiple outputs and CEP stability allow tailoring to custom multi-color experiments at full system performance and unprecedented stability over days. This allows leading scientists to push research in attosecond science, material processing and ultrafast spectroscopy to new limits. The product uses White Dwarf OPCPA technology as stable front-end and includes our high power optical parametric chirped-pulse amplifier pumped by a kilowatt-level Yb:YAG laser.

PERFORMANCE EXAMPLES



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