

WHITE DWARF HE OPCPA 30W



ACCELERATE YOUR RESEARCH

The *White Dwarf HE* OPCPA is a compact, tunable femtosecond laser system satisfying the most discerning scientists in a variety of disciplines. It offers shortest pulse duration, high temporal contrast and optionally CEP stability for demanding applications. A dual output option is available for pump-probe spectroscopy.

AVERAGE POWER

5 W ————— 30 W

WAVELENGTH OPTIONS

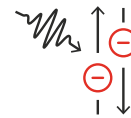
800 nm ————— 3000 nm

PULSE DURATION

9 fs ————— 50 fs

REPETITION RATES

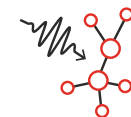
10 kHz ————— 1 MHz



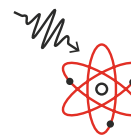
- Spin dynamics
- Superconductivity



- Carrier dynamics of solid materials
- Photosynthesis



- Cluster and gasphase dynamics



- Attosecond dynamics in solids and gases



- Strong-field physics
- Relativistic plasma physics



- Particle accelerators



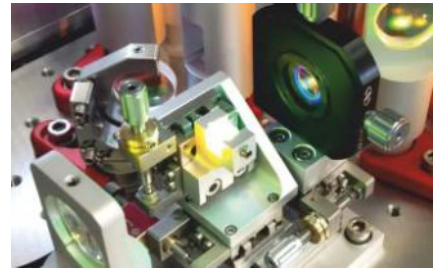
- Laser user facilities

PRODUCT SPECIFICATIONS

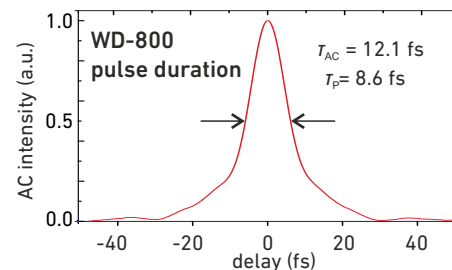
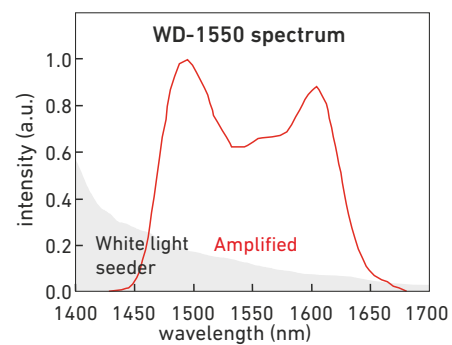
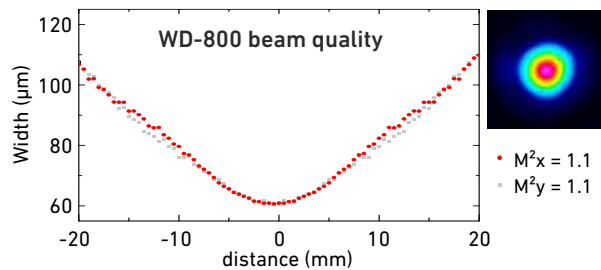
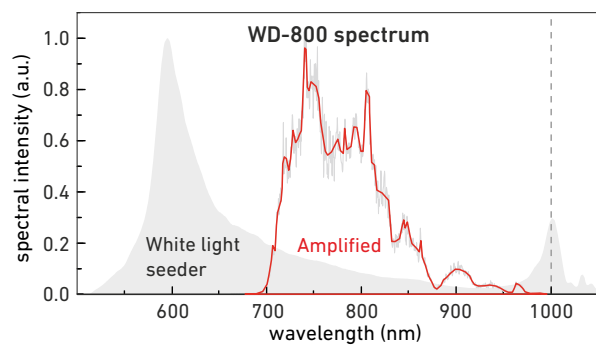
	WD-HE-800-tunable	WD-HE-800	WD-HE-1550	WD-HE-2000	WD-HE-3000
Central wavelength	700 - 950nm	800 nm	1550 nm	2000 nm	3000 nm
Tunability optional	700 - 2000 nm	700 - 950 nm	1400 - 1700 nm	2000 - 2400 nm	2600 - 3500 nm
Pulse duration (FWHM)	< 30 fs	< 9 fs	< 35 fs	< 30 fs	< 50 fs
Average power	5 - 30 W	5 - 30 W	5 - 30 W	5 - 30 W	4 - 20 W
Pulse energy	> 40 - 300 μ J	> 40 - 300 μ J	> 40 - 300 μ J	> 40 - 300 μ J	> 40 - 200 μ J
Repetition rate	10 kHz - 1 MHz	10 kHz - 1 MHz	10 kHz - 1 MHz	10 kHz - 1 MHz	10 kHz - 1 MHz
CEP stability		on request	on request	on request	on request
SHG, THG, HHG or mid-IR	on request	on request	on request	on request	on request
Dual output	on request	on request	on request	on request	on request
Pump laser	50 - 300 W	50 - 300 W	50 - 300 W	50 - 300 W	50 - 300 W

HIGHLIGHTS

The **White Dwarf HE** OPCPA is an ultrafast, high-power optical parametric chirped pulse amplifier. It comes as a complete system at different power levels, pumped by an industrial Yb:fiber or Yb:YAG laser with up to 300 W, making it robust, reliable and easy-to-use. The different wavelength versions covering the near- to mid-infrared range open a wide field of applications. All versions can be combined to dual output pump-probe systems with different pulse properties in pump and probe output and intrinsic synchronization.



PERFORMANCE EXAMPLES



Measurement data are examples. Specifications are subject to change without notice.
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