WHITE DWARF HE
OPCPA 30W

CLASS 5 Photonics

ACCELERATE YOUR RESEARCH

The White Dwarf HE OPCPA is a compact, tunable femtosecond laser system satisying the most discerning scientists in a variety of disciplines. It offers shortest pulse durations, 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

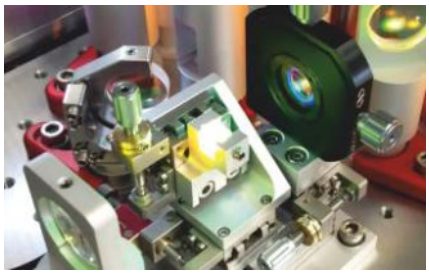
- Laser user facilities

PRODUCT SPECIFICATIONS

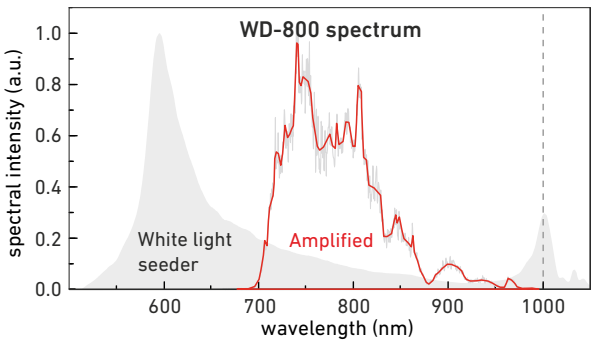
	WD-HE-800-tunable	WD-HE-800	WD-HE-1550	WD-HE-2000	WD-HE-3000
Central wavelength	**700 - 950nm**	**800 nm**	**1550 nm**	**2000 nm**	**3000 nm**
Tunability optional	**700 - 2000 nm**	**700 - 950 nm**	**1400 - 1700 nm**	**2000 - 2400 nm**	**2600 - 3500 nm**
Pulse duration (FWHM)	**< 30 fs**	**< 9 fs**	**< 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 µJ**	**> 40 - 300 µJ**	**> 40 - 300 µJ**	**> 40 - 300 µJ**	**> 40 - 200 µJ**
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**

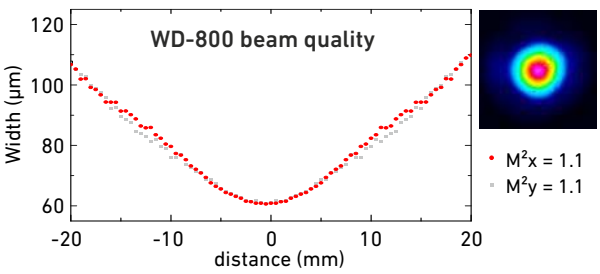
HIGHLIGHTS

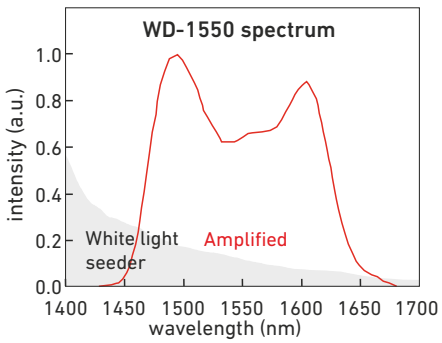
The White Dwarf HE OPCPA is an ultrafast, high-power optical parametric chirped pulse amplifier. It comes as a complete system at different power levels, pumped by an industrial Yb:fiber or Yb:YAG laser with up to 300 W, making it robust, reliable and easy-to-use. The different wavelength versions covering 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.

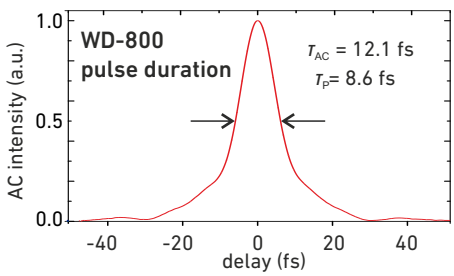


PERFORMANCE EXAMPLES









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