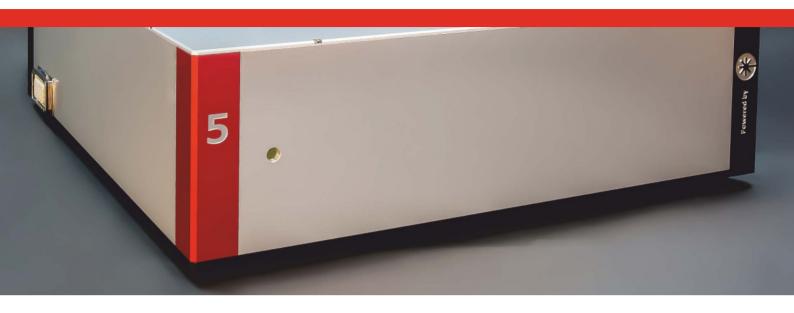
# WHITE DWARF

OPCPA 5W powered by Coherent





# **ACCELERATE** YOUR RESEARCH

The White Dwarf OPCPA powered by Coherent is a high-performance femtosecond laser fully integrated in a compact housing. Our latest version offers wavelength tunability and a dual output option for pump-probe spectroscopy making it the most flexible non-colinear OPA on the market.

#### **AVERAGE POWER**

5 W

### **WAVELENGTH OPTIONS**

650 nm 2000 nm

#### **PULSE DURATION**

10 fs-50 fs

### **PUMPED BY**

Coherent Monaco—60 W

#### REPETITION RATE

750 kHz--10 MHz



· in-vivo brain imaging



 Multiphoton absorption imaging



- Spin dynamics
- Superconductivity



 Deep optical imaging of tissue



- · Carrier dynamics of solid materials
- Photosynthesis



Optogenetics

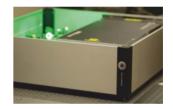
## **PRODUCT SPECIFICATIONS**

			for ultrafast		
	for multi-photon microscopy		material science	for few-cycle pulses	
	WD-1300	WD-1300-dual	WD-800-tunable-dual	WD-800	WD-2000
Central wavelength	1300 nm	Two synchronized outputs: 960 and 1300 nm, or 1300 and 1700 nm	Two synchronized outputs: I: 650 - 2000 nm II: 650 - 960 nm	800 nm	2000 nm
Pulse duration (FWHM)	< 50 fs	< 50 fs	l: < 100 fs II: < 30 fs	< 9 fs	< 30 fs
Average power	> 4 W	> 2 W each output	> 2 W each output	> 5 W	> 5 W
Pulse energy	> 4 µJ	> 2 µJ each output	> 2 µJ each output	> 5 µJ	> 5 µJ
Repetition rate	single-shot to 10 MHz	single-shot to 10 MHz	single-shot to 4 MHz	single-shot to 10 MHz	single-shot to 10 MHz
Beam quality M2	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3
Power stability (12 hrs)	< 1 %	< 1 %	< 1 %	< 1 %	< 1 %
Dimensions	80 cm x 80 cm	80 cm x 120 cm	80 cm x 120 cm	80 cm x 80 cm	80 cm x 120 cm
SHG, THG or mid-IR			on request		
Pump laser incl.	Coherent Monaco 60 W	Coherent Monaco 60 W	Coherent Monaco 60 W	Coherent Monaco 60 W	Coherent Monaco 60 W
CEP stability				on request	on request

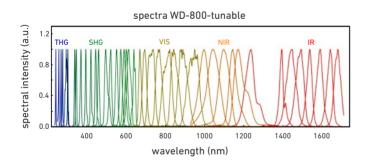
for ultrafact

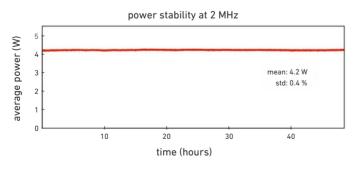
### **HIGHLIGHTS**

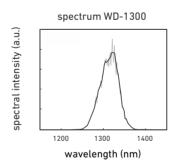
The White Dwarf OPCPA powered by Coherent has its pump laser already on board to enter the next level of stability. We integrate the Coherent Monaco industrial femtosecond laser on a small footprint with state-of-the-art White Dwarf OPCPA technology to bring industrial performance to scientific output parameters. The White Dwarf OPCPA can be equipped as dual output system to offer pump-probe capabilities for ultrafast material science or as fixed wavelenght version for high-volume 3D bio-imaging.

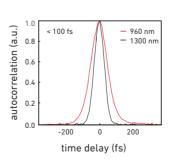


## **PERFORMANCE EXAMPLES**











 $M^2x < 1.2$  $M^3y < 1.3$ 

