

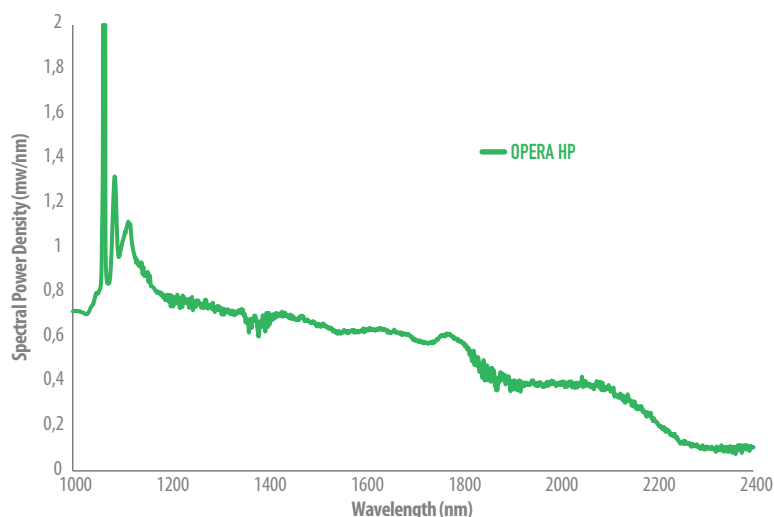
OPERA

CARS LASER SOURCE

— Supercontinuum lasers
— SCIENTIFIC
— **GENERIC**



OPERA laser is dedicated to CARS applications. **OPERA** offers a reliable, compact and cost-effective alternative to conventional CARS equipment.

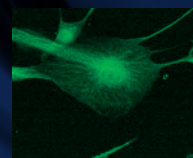
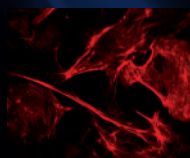


FEATURES

- Pump and Stokes output
- Pump and Stokes synchronisation option
- Maintenance-free
- User-friendly
- Pump output up to 1W
- Stokes output up to 1W
- Sub-nanosecond pulses < 50 ps
- SHG output at 532 nm available
- Spatially singlemode

APPLICATIONS

- CARS
- Spectroscopy



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OPERA

CARS LASER SOURCE

The feasibility of high resolution and multicolour cars imaging has already been demonstrated with this dual output laser.

- Supercontinuum lasers
- SCIENTIFIC
- **GENERIC**



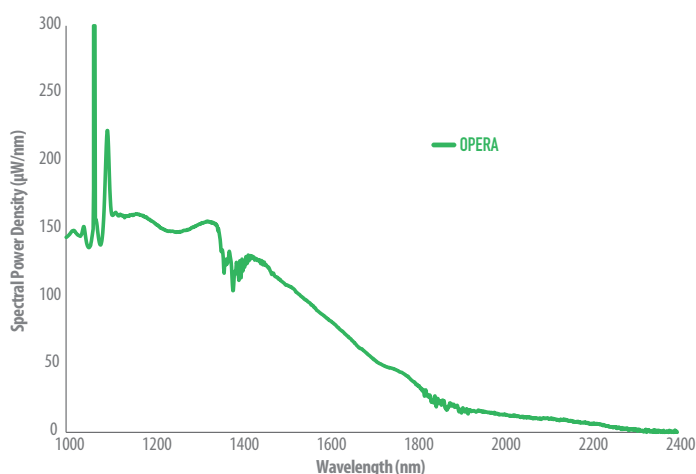
OPTION

Achromatic collimated output

Synchronization of pump and Stokes beam

532 nm generation

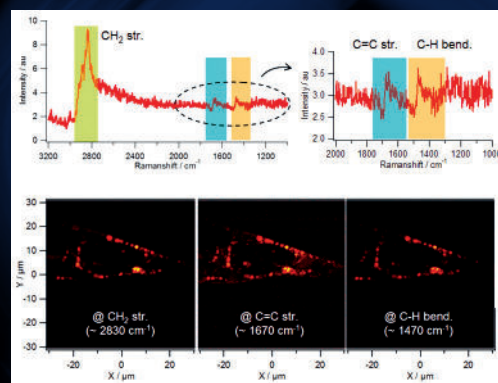
OPTICAL SPECIFICATIONS		OPERA	OPERA HP
PUMP			
Central wavelength		1064 nm	1064 nm
Total average power		> 70 mW	> 1 W
Output		Free space or fibered	Free space or fibered
STOKES			
Spectral bandwidth	min	< 420 nm	< 420 nm
	max	> 2400 nm	> 2400 nm
Output		FC/APC collimator (~1m armored cable)	FC/APC collimator (~1m armored cable)
Total average power		> 70 mW	> 1 W
Repetition rate		> 30 kHz or triggered 10 Hz – 20 kHz	1MHz (other repetition rate on demand)
Pulse width (red)		~ 1 ns	< 50 ps
Power stability		< +/-1.5 %	< +/-1 %
Synchronization output		Photodiode	Photodiode
Interlock connector		2-pin LEMO	2-pin LEMO
OTHER SPECIFICATIONS			
Control interface		Front panel and USB	
Operating temperature		+15°C to +35°C non condensing	
Weight		< 5 kg	< 20 kg
Dimensions (LxWxh)		350x250x80 mm	435x455x145 mm
Power requirements		100-240 V, 50/60 Hz	



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All specifications are subject to change without notice - JANUARY 2023 EDITION



**CAUTION – VISIBLE AND INVISIBLE
LASER RADIATION AVOID EYE AND
SKIN EXPOSURE TO DIRECT OR
SCATTERED RADIATION
CLASS 4 LASER PRODUCT**