

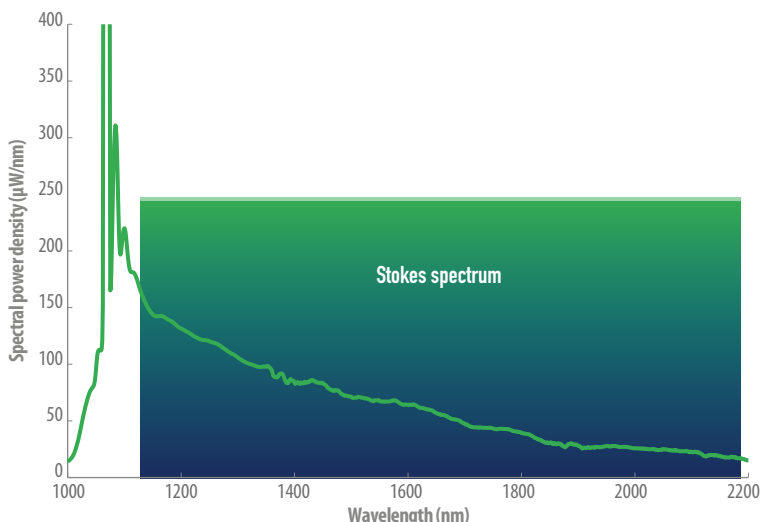
OPERA

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.

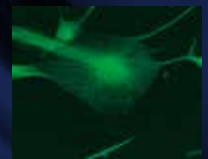
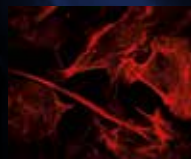


FEATURES

- Pump and stokes output
- Pump and stokes synchronisation option
- Maintenance-free
- User-friendly
- Excellent spectral resolution $< 0,1 \text{ cm}^{-1}$
- Pump output up to 1W
- Stokes output up to 0,5 W
- Sub-nanosecond pulses
- 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.

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- SCIENTIFIC
- **GENERIC**



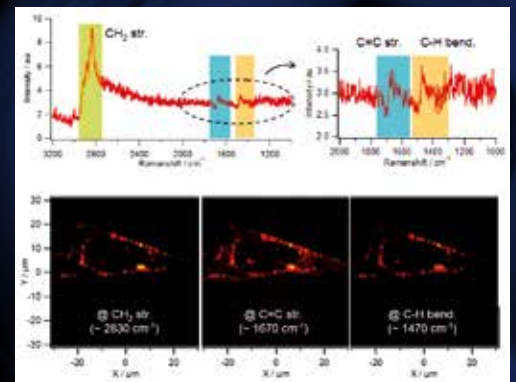
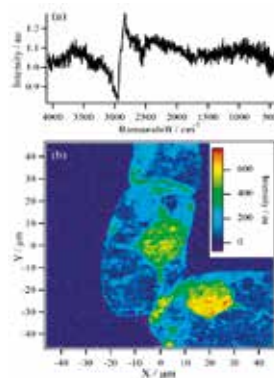
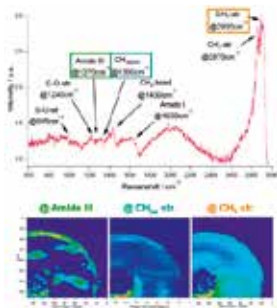
OPTION

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	> 1000 mW
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	> 500 mW
Repetition rate		> 30 kHz or triggered 10 Hz – 20 kHz	1MHz (other repetition rate on demand)
Pulse width		~ 1 ns	100 ps
Power stability		< +/-1.5%	< +/-1.5%
Synchronization output		Photodiode	Photodiode
Interlock connector		2-pin LEMO	2-pin LEMO
OTHER SPECIFICATIONS			
Control interface		Front panel and USB	
Operating temperature		+0°C to +50°C non condensing	
Weight		< 5 kg	
Dimensions (LxWxh)		305x250x80 mm	
Power requirements		100-240 V, 50/60 Hz	



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+33 (0)5 87 20 00 25
contactus@leukos-systems.com
www.leukos-systems.com



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