

CARS micrograph of peripheral myelinated axons. Red: resonance image of CH vibration showing lipid-rich myelin. Green: off-resonance image outlining interior of the fibers. Photo courtesy of C.Brideau, K. Poon and P. K. Stys, Hotchkiss Brain Institute, University of Calgary, Calgary Alberta Canada.

Picture taken with Clark-MXR Model IMPULSE-pumped Model cOPA synchronized and independently tunable dual OPAs 3-beam ultrashort pulse source.

Clark-MXR, Inc. 7300 West Huron River Dr. Dexter, MI 48130 USA Phone: 734-426-2803 Web: <u>www.cmxr.com</u> <u>http://en.wikipedia.org/wiki/Clark-MXR</u>

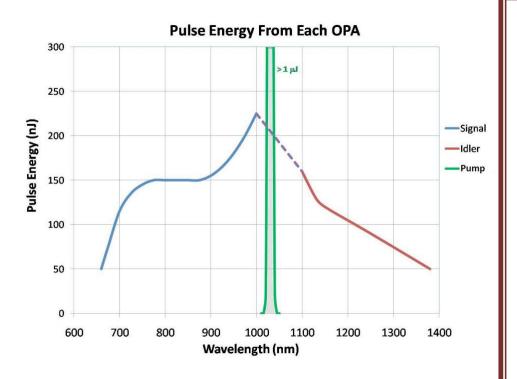


Model cOPA Tunable Ultrafast Source for Microscopy Applications

The Model cOPA consists of *two* synchronized OPAs in one enclosure pumped by a megahertz repetition rate, fiberlaser oscillator/amplifier system. Each OPA is independently tunable from 700 to 950 nm in the signal range and from 1130 to 1300 nm in the idler range – see pulse energy as a function of wavelength tuning curve below. Residual 1030 nm pump light of > 1 μ J is available from a separate output port. Motorized drives for electronic tuning are included. For additional information please contact sales@cmxr.com.

Preliminary Specifications:

Tuning Range:			Notes:
i annig i angoi	Signal	700-950 nm	> 100 nJ/pulse throughout signal range
	•		
	ldler	1130-1300 nm	See graph below
Pulse Energy:			
	Signal	>100 nJ	Over entire tuning range
	Idler	>80 nJ at peak	See graph below
Repetition rate:		1 MHz	Other repetition rates possible. Contact Clark-MXR Inc.
Bandwidth		<150 cm ⁻¹	200 cm ⁻¹ to 250 cm ⁻¹ available at higher power output
Compressibility		<1.5 x transform limit	
Pulse Energy Noise		<1% rms for f >2 Hz	



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Response to date:

"Very impressive! "

"This is a very exciting system considering the higher pulse energy it provides."

" Looks very slick ..!"

"...ideal for our CARS microscope."

" ... looks very interesting indeed, and I am quite excited about it."

"I would like to set up a quick call as soon as possible to discuss the exciting new system..."

Clark-MXR, Inc.