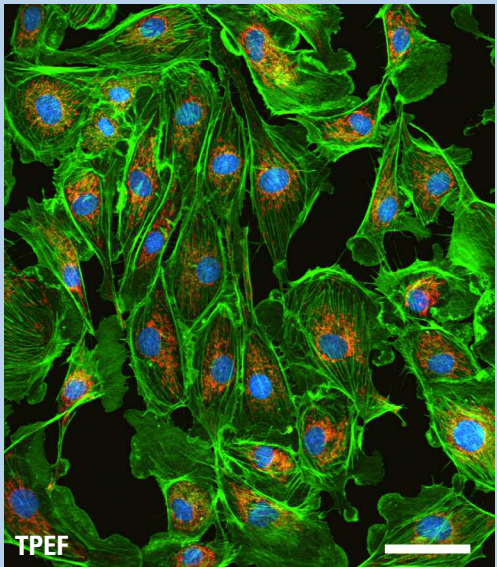


Wavelength Extension Unit (WEU)

FOR ULTRAFAST OSCILLATORS

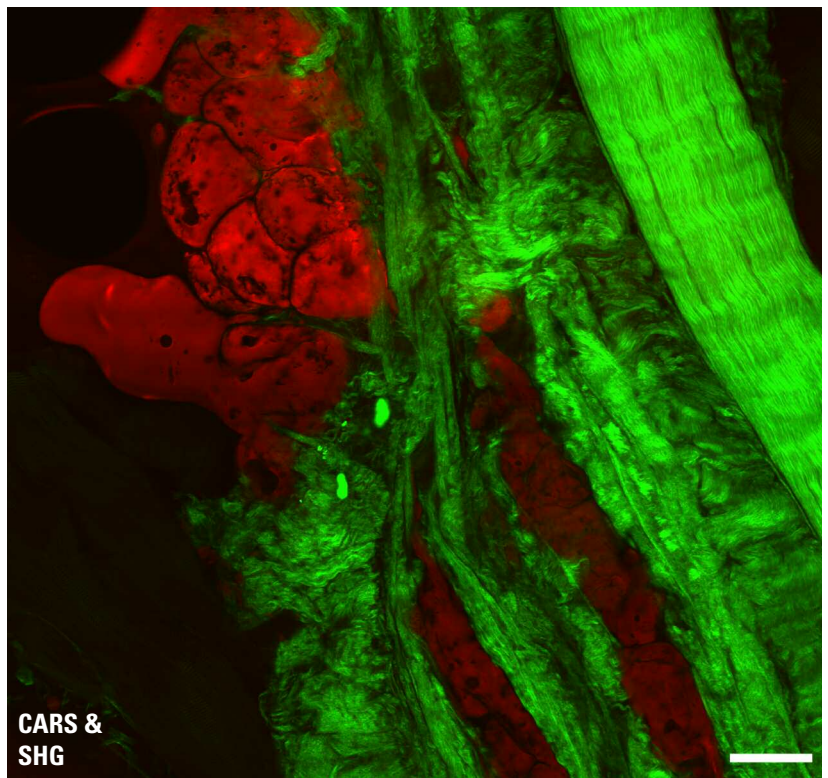


TPEF
Two-Photon Excited Fluorescence (TPEF) image of stained bovine pulmonary artery endothelial cells (Scale bar: 50 μ m)

Advantages

- Use with existing two-photon microscopes to add modalities (TPEF, SHG, CARS)
- Easy to integrate with ultrafast lasers for spectroscopy, microscopy, and pump-probe experiments
- Preserves beam path and tuning range of pump source
- Uses photonic crystal fiber (PCF) as broadband supercontinuum source
- Outputs are spatially and temporally overlapped

Newport's new wavelength extension unit is a pre-aligned turn key solution for various spectroscopy and microscopy applications. This device can be easily integrated with ultrafast light sources to perform multimodal spectroscopy and imaging. It can also be integrated with two-photon microscopes to add modalities to enhance the imaging capabilities of microscopes.



CARS & SHG
Coherent Anti-Stokes Raman Scattering (CARS - shown in red) and Second Harmonic Generation (SHG - shown in green) image of bovine muscle (Scale bar: 50 μ m)

Please contact a Newport sales representative at our toll free number 1-800-222-6440 or email tech@newport.com to order or to find out more. For custom needs please contact Newport's Technology and Applications Center team.

Wavelength Extension Unit



Typical Specifications:

Laser source:	Femtosecond oscillator 800 nm, 50-200 fs, >600 mW
Pump losses:	<10% at 800nm
Spectral Range (stokes beam):	900 -1100 nm
Output power (stokes beam):	50-100 mW

ABOUT NEWPORT'S TECHNOLOGY AND APPLICATIONS CENTER

Newport's Technology and Applications Center (TAC) develops application-specific solutions for our research customers. Current activities of the TAC are focused in the areas of Ultrafast Spectroscopy, Nonlinear Microscopy, Raman Spectroscopy, Ultrafast Micromachining, and Test and Characterization of Photovoltaic Solar Cells. Using in-house expertise and collaborations with key educational institutions, the members of this team develop application solutions, write Application Notes and publish articles in peer reviewed journals. TAC team has integrated Newport products into a number of stand alone devices in the form of kits. Supercontinuum generation, CARS microspectrometer, characterization and attenuation of ultrafast laser pulses and Two-photon polymerization are a few of the examples of complete solutions developed by TAC members.

To learn more about TAC and its activities please visit us on the web at www.newport.com/tac and for a complete list of preconfigured solutions developed at TAC please visit us on the web at www.newport.com/pas



Newport Corporation, Global Headquarters
1791 Deere Avenue, Irvine, CA 92606, USA

PHONE: 1-800-222-6440 1-949-863-3144 FAX: 1-949-253-1680 EMAIL: sales@newport.com
Complete listings for all global office locations are available online at www.newport.com/contact

www.newport.com

	PHONE	EMAIL		PHONE	EMAIL
Belgium	+32-(0)0800-11 257	belgium@newport.com	Irvine, CA, USA	+1-800-222-6440	sales@newport.com
China	+86-10-6267-0065	china@newport.com	Netherlands	+31-(0)30 6592111	netherlands@newport.com
France	+33-(0)1-60-91-68-68	france@newport.com	United Kingdom	+44-1235-432-710	uk@newport.com
Japan	+81-3-3794-5511	spectra-physics@splasers.co.jp	Germany / Austria / Switzerland	+49-(0)6151-708-0	germany@newport.com
Taiwan	+886 -(0)2-2508-4977	sales@newport.com.tw			

Newport Corporation, Irvine, California and Franklin, Massachusetts; Evry and Beaune-La-Rolande, France and Wuxi, China have all been certified compliant with ISO 9001 by the British Standards Institution. Santa Clara, California is DNV certified.

DS-011004