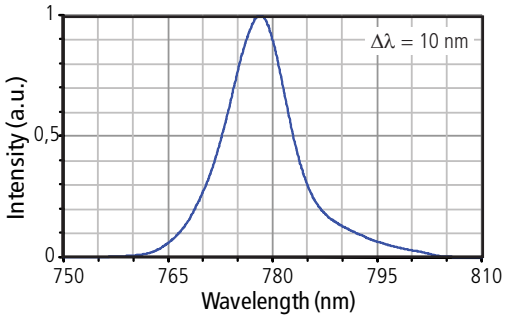
C-Fiber 780
M-Fiber A 780

MenloSystems

FEMTOSECOND LASER

780 nm

OPTICAL SPECTRUM OF C-FIBER 780

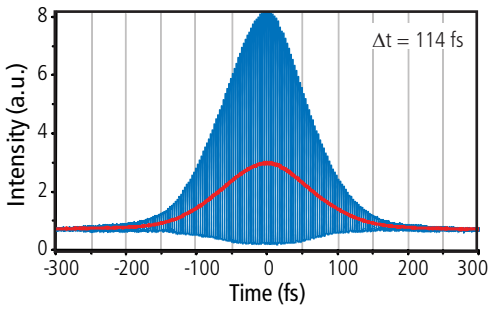


Menlo Systems' mode-locked Er: fiber laser models with added second harmonic generation stage deliver sub-100 fs laser pulses at 780 nm wavelength in an economic, easy-to-use laser system.

Based on state-of-the-art telecom components our lasers give highest performance. At the same time they offer siginificant cost reduction resulting from the long life time and the inherent simplicity of the fiber laser concept.

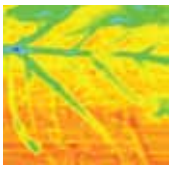
The scientific platform enables customer specific solution.

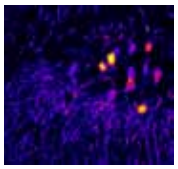
PULSE WIDTH OF C-FIBER 780

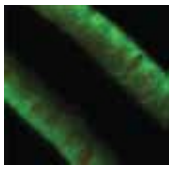


APPLICATIONS

Ultrafast spectroscopy
Material characterization
Multiphoton excitation
Microfabrication
Bioimaging
THz physics

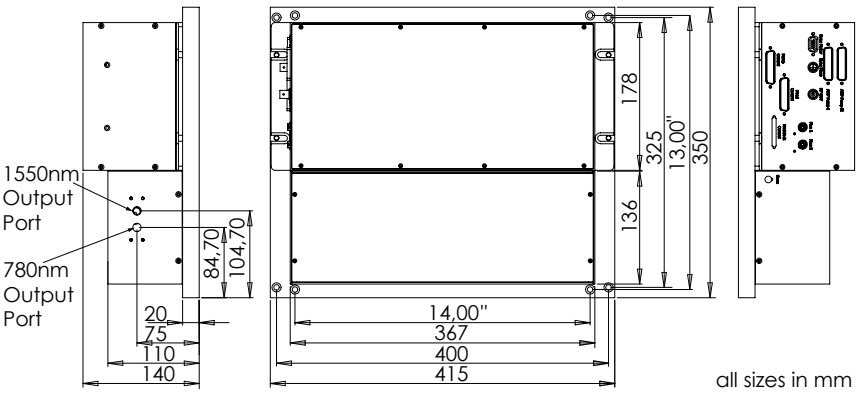

THz imaging


2P microscopy


2P FLIM

C-Fiber 780 Laser Head

M-Fiber A 780 Laser Head



all sizes in mm

C-Fiber 780
M-Fiber A 780
FEMTOSECOND FIBER LASER

SPECIFICATIONS

	C-Fiber 780	M-Fiber A 780
Wavelength	780 nm +/- 10 nm	
Average Output Power	>65 mW	>150 mW
Pulse Width	100-120 fs	
Compressed Pulse Width	<80 fs	
Repetition Rate	100 MHz +/- 1 MHz	250 MHz +/- 1 MHz
Repetition Rate Instability	1 ppm	
Output Port	free space, linearly polarized	
Beam Height	75 mm	

UTILITY AND ENVIRONMENTAL REQUIREMENTS

Operating Voltage	110/115/230 VAC	
Frequency	50 to 60 Hz	
Power Consumption	120 VA	
Cooling Requirements	no water cooling is required	
Laser Head Stabilization	temperature stabilized with Peltier elements	
Range of Operating Temperature	22 ± 5 °C	
Dimensions		
Laser Heads	415 x 350 x 110 mm^3	415 x 350 x 140 mm^3
Control Electronics	448 x132 x 437 mm^3	
Weight		
Laser Heads	20 kg	
Control Electronics	10 kg	

ORDERING INFORMATION

C-Fiber 780	Femtosecond Fiber Laser	>65 mW, 100 MHz
C-Fiber A 780	Femtosecond Fiber Laser	>180 mW, 100 MHz
M-Fiber A 780	Femtosecond Fiber Laser	>150 mW, 250 MHz
OPTIONAL UNITS		
SYNC100	Repetition Rate Synchronization* for C-Fiber 780 and C-Fiber A 780	tuning of cavity length by 330 kHz
SYNC250	Repetition Rate Synchronization* for M-Fiber A 780	tuning of cavity length by 2 MHz
RRE-SYNCRO	Repetition Rate Stabilization**	phase lock to external reference
F-Femtoscale	Second Harmonic Compression Unit	for pulse length <80 fs, transmission 90%

* Option is not retrofittable, please order together with laser **Requires SYNC option in laser head

Please call for pricing. Specifications are subject to change without notice. Custom modifications are available, please inquire.
Last updated: May 02, 2013

Invisible laser radiation
avoid direct eye exposure
Class 3B Laser

MenloSystems

Menlo Systems GmbH
Am Klopferspitz 19a
D-82152 Martinsried
Germany

T+49 89 189 166 0
F+49 89 189 166 111
sales@menlosystems.com

Menlo Systems, Inc.
56 Sparta Avenue
Newton, NJ 07860
USA

T+1 973 300 4490
F+1 973 300 3600
ussales@menlosystems.com

Thorlabs, Inc.
56 Sparta Avenue
Newton, NJ 07860
USA

T+1 973 579 7227
F+1 973 300 3600
sales@thorlabs.com

Thorlabs Japan, Inc.
Higashi Ikebukuro
Q Building 2nd Floor 2-23-2
Toshima-ku, Tokyo 170-0013
Japan

T+81 3 5979 8889
F+81 3 5979 7285
sales@thorlabs.jp

Pinnacle Scientific
(China) Corporation
No. 100 Minxin Road
Winning International
Building, Suite 2404
Jianggan District
Hangzhou 310020, China

T+86 571 882 251 51
F+86 571 882 252 52
sales@psci.cn

Thorlabs China
Room A101, No. 100
Lane 2891,
South Qilianshan Road
Putuo District
Shanghai 200331
China

T+86 21 6056122
F+86 21 32513480
chinasales@thorlabs.com

www.menlosystems.com **www.frequencycomb.com**