

STM Series - low timing jitter Supercontinuum White Light Source

Our STM series is a broadband laser with a very low pulse to pulse timing jitter, less than 20ns at 2kHz frequency. STM lasers are externally triggered lasers with a unique design for easy synchronization. Available with a spectral range down to the UV 350nm, STM lasers have shown an excellent lifetime duration. STM lasers are the ideal alternative for probe light generation in time resolved spectroscopy experiments.

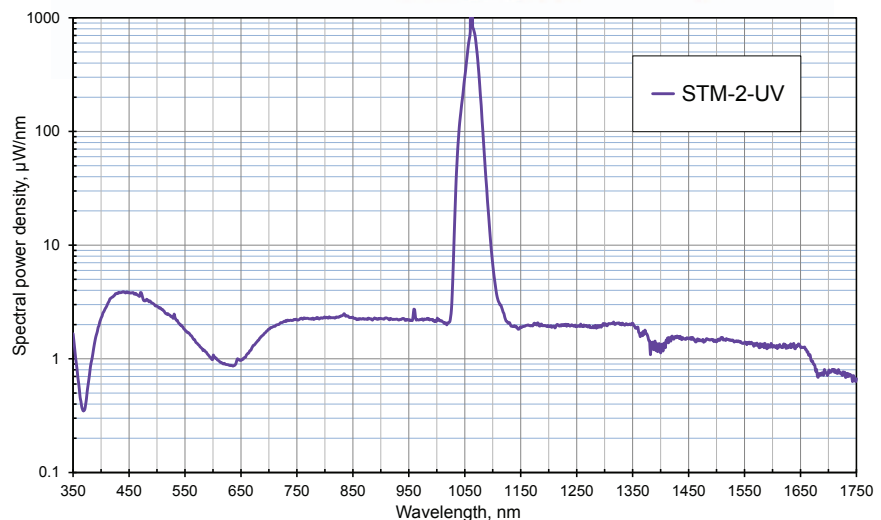
FEATURES

- From UV to NIR
350 nm - 2400 nm
- Externally triggered
- Easy pulse synchronization
timing jitter < 20 ns at 2 kHz
- High energy per pulse > 3 μ J
- Singlemode Gaussian TEM00
- Maintenance-free
- Reliable all fibered
broadband laser source

APPLICATIONS

- Spectroscopy
- Flow cytometry
- Probe light generation
- OCT (Optical Coherence
Tomography)
- Microscopy
- Optical components testing

Pulse on demand
externally triggered
supercontinuum laser with
low timing jitter



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STM-2 STM-2-UV

Optical specifications			
Spectral bandwidth	min	< 420 nm	< 350 nm
	Max	2400 nm	> 2200 nm
Seed repetition rate ⁽¹⁾		2 kHz	
Timing jitter <i>pulse to pulse</i>		< 20 ns	
Seed pulse width		~ 1 ns	
Total average power ⁽²⁾		> 10 mW	> 5 mW
Spatial mode		Singlemode TEM00	
Polarization state		Unpolarized	
Output connection		FC/APC (~ 1 meter armored cable)	
Synchronization output		External trigger output	
Other specifications			
Control interface		Front panel	
Operating temperature		+5°C to +40°C non condensing	
Weight		< 8 kg	
Dimensions (LxWxH)		483x250x134 mm	
Power requirements		100-240V, 50/60Hz	

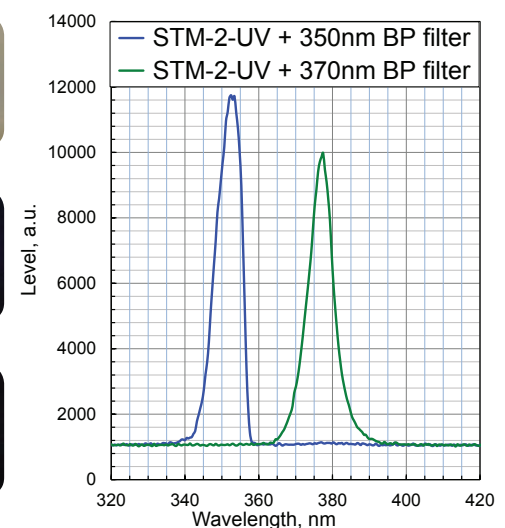
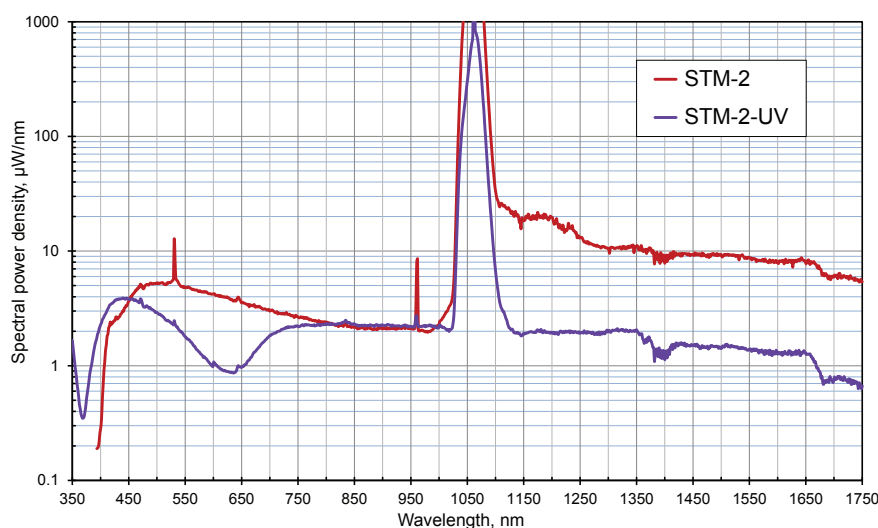


OPTIONS

- Laser output
FC/APC or collimated output (lens or achromatic)
- Other repetition rates
Available upon request in the range:
1kHz up to 50kHz

(1) Externally triggered laser, fixed repetition rate generated with analog trigger signal with 50% duty cycle.

(2) Total average power including ASE.



Measured with Ocean Optics HR2000+

**INVISIBLE AND VISIBLE LASER RADIATION
AVOID EXPOSURE TO BEAM
Class 3B (IIIb) Laser product**

$\lambda = 200-2400 \text{ nm} - P < 200 \text{ mW} - Q_i < 15 \mu\text{J} - t_i < 1.2 \text{ ns}$
Class 3B (IIIb) Laser product IEC 60825.1 - 2007
Complies with 21 CFR 1040.10 and 1040.11

All specifications are subject to change without notice.

