LEUKOS
Innovative Optical Systems

STM-IR Series
NIR-SWIR Supercontinuum Source

Our STM-IR series is a broadband laser with a unique spectrum in the NIR SWIR bands from 900 nm up to 2800 nm. Two designs are available, one with high energy nanosecond pulse operating at several hundreds of kHz, and another one with fast MHz repetition rate and hundreds of picoseconds pulse width.
This series can be triggered externally for easy synchronization set-up.

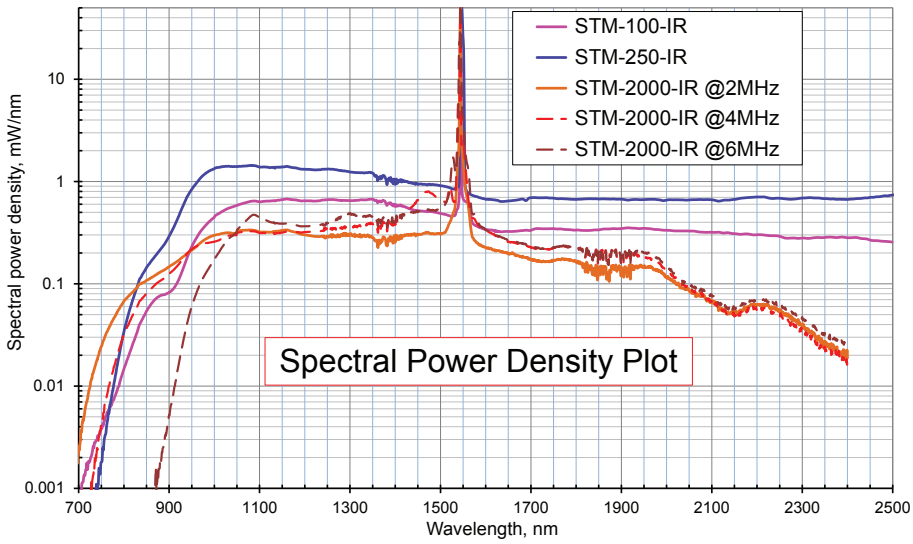
FEATURES

- NIR flat spectrum 900 nm - 2800 nm
- Singlemode TEM00
- Various repetition rate 100 kHz, 250 kHz and MHz
- Nanosecond pulses or hundreds of picoseconds
- Total average power up to 1.3 W
- Maintenance-free
- Reliable all fibered broadband source

APPLICATIONS

- Optical component testing
- OCT (Optical Coherence Tomography)
- Spectroscopy
- Metrology, LIDAR
- High resolution imaging

Triggered or free running laser
NIR-SWIR broadband laser
up to 2800 nm



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STM-IR Series

NIR-SWIR Supercontinuum Source

		STM -100-IR	STM -250-IR	STM -2000-IR
Optical specifications				
Spectral bandwidth	min	< 900 nm		< 900 nm
	Max	> 2800 nm		> 2800 nm
Total average power		> 500 mW	> 1.3 W	> 400 mW
Seed repetition rate (1)		~ 100 kHz	~ 250 kHz	2 to 6 MHz
Timing jitter		< 20 ns		
Seed pulse width		~ 1 ns		< 100 ps
Power stability (2)		+/- 1 %		+/- 2 %
Spatial mode		Singlemode TEM00		
Polarization state		Unpolarized		
Output connection		FC/APC Collimator (~ 1 meter armored cable)		
Other specifications				
Control interface		Front panel and RS232		Front panel
Operating temperature		+5°C to +40°C non condensing		
Weight		< 8 kg		
Dimensions (LxWxH) (3)		483x250x134 mm		
Power requirements		100-240V, 50/60Hz		

OPTIONS

1 Collimated output
Lens or achromatic broadband collimator

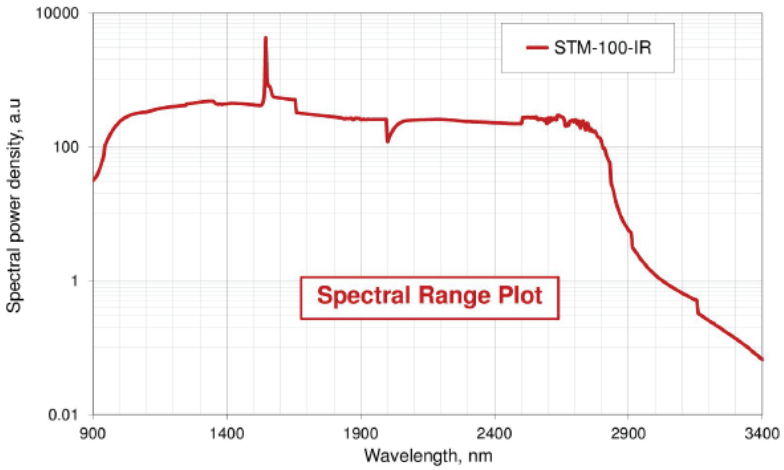
2 Free-running version
Internal clock TTL trigger signal generator.

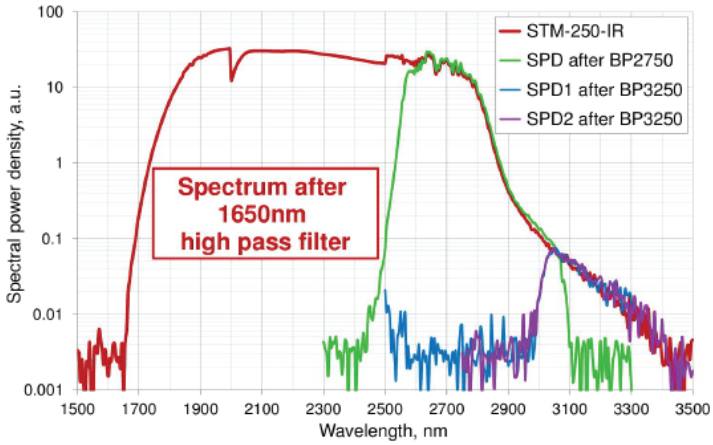
3 Minimum wavelength down to 700 nm

(1) Fixed repetition rate.
TTL input trigger signal with 50% duty cycle.

(2) Typical value of long-term stability for total average power.

(3) Custom OEM packaging available upon request.





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www.leukos-systems.com

INVISIBLE AND VISIBLE LASER RADIATION
AVOID EXPOSURE to BEAM
Class 4 (IV) Laser product

200 < λ < 3200 nm - P = 3 W - Qi = 10 µJ - 0.1 < ti < 1 ns
Class 4 (IV) Laser product IEC 60825.1 - 2007
Complies with 21 CFR 1040.10 and 1040.11

All specifications are subject to change without notice.

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