

SM-IR Series NIR Supercontinuum Source

Our SM-IR series is a broadband supercontinuum laser dedicated to test and measurement applications. This series delivers up to 100 mW output power over the telecommunication bandwidth. It covers all the NIR wavelengths from 1100 nm up to 2400 nm.

The SM-IR series is a reliable alternative solution to ASE source, external cavity tunable laser and mode hop free laser.

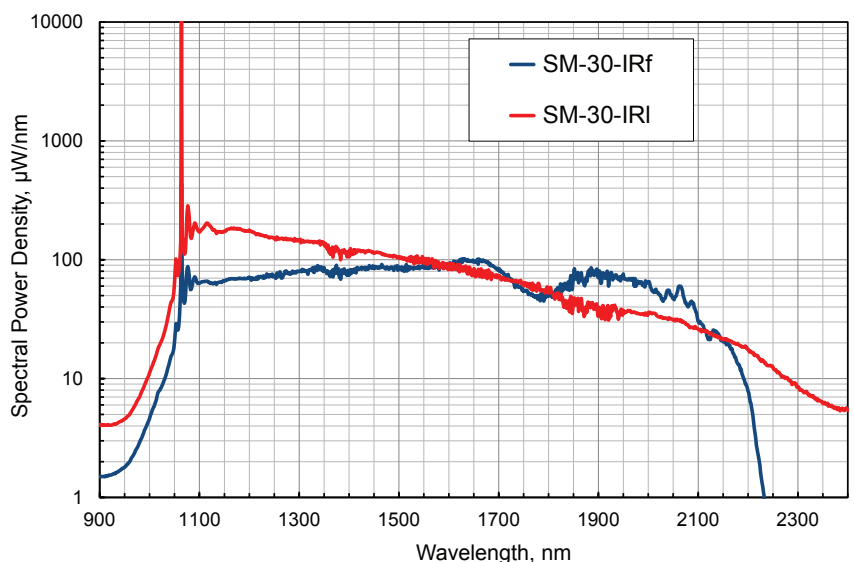
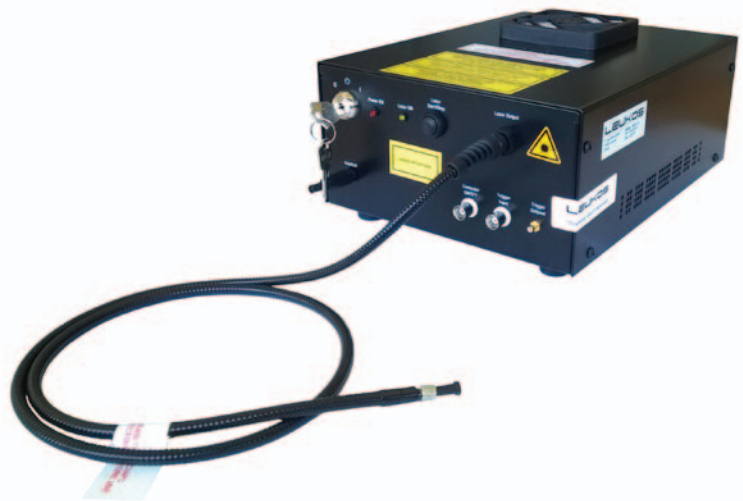
FEATURES

- Bandwidth from 1100 nm up to 2400 nm
- Singlemode TEM00
- Various repetition rate 8 kHz and 30 kHz
- High energy per pulse $> 3 \mu\text{J}$
- Total average power up to 100 mW
- Maintenance-free
- Reliable all fibered compact broadband source
- Cost effective broadband laser

APPLICATIONS

- Test and measurement
- Optical component testing
- Spectroscopy
- Metrology, LIDAR
- OCT (Optical Coherence Tomography)

Cost effective broadband laser
from 1100 nm up to 2400 nm



SM-IR Series

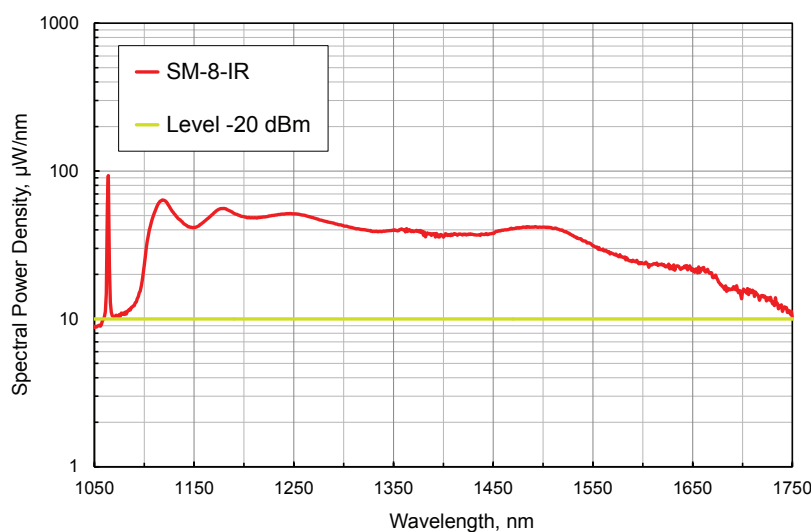
NIR Supercontinuum Source



SM -8-IR SM -30-IRf SM -30-IRL

Optical specifications		SM -8-IR	SM -30-IRf	SM -30-IRL
Spectral bandwidth	min	< 1100 nm	< 1000 nm	< 1000 nm
	Max	> 1900 nm	> 2200 nm	> 2400 nm
Total average power		> 25 mW	> 50 mW	> 100 mW
Seed repetition rate ⁽¹⁾		~ 8 kHz	~ 30 kHz	~ 30 kHz
Seed pulse width		< 1 ns		
Power stability ⁽²⁾		+/- 2 %		
Spatial mode		Singlemode TEM00		
Polarization state		Unpolarized		
Output connection		FC/APC (~ 1 meter armored cable)		
Other specifications				
Control interface		Front panel and USB		
Operating temperature		+5°C to +45°C non condensing		
Dimensions (LxWxH) ⁽³⁾		275x210x120 mm		
Weight		< 5 kg		
Power requirements		100-240V, 50/60Hz		

- (1) Fixed repetition rate.
- (2) Typical value of long-term stability for total average power.
- (3) SCM OEM packaging available upon request.



- OPTIONS**
- 1 Collimated output
Lens or achromatic broadband collimator
 - 2 Synchronization output
External output trigger



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

400 λ < 3000 nm - P < 100 mW - Qi = 3.5 µJ - ti = 1 ns
Class 3b (IIIb) Laser product IEC 60825.1 - 2007
Complies with 21 CFR 1040.10 and 1040.11