

## SM Series Supercontinuum White Light Source

Our SM series is a broadband laser intended for everyday use in labs. They are an effective replacement for lamp, SLEDs, mode-hop tunable laser because they reach multiple wavelengths with a flat, stable, broadband spectrum with a fibered output. Turn-key, maintenance-free, robust and user-friendly, these sources are convenient for general purpose applications.

### FEATURES

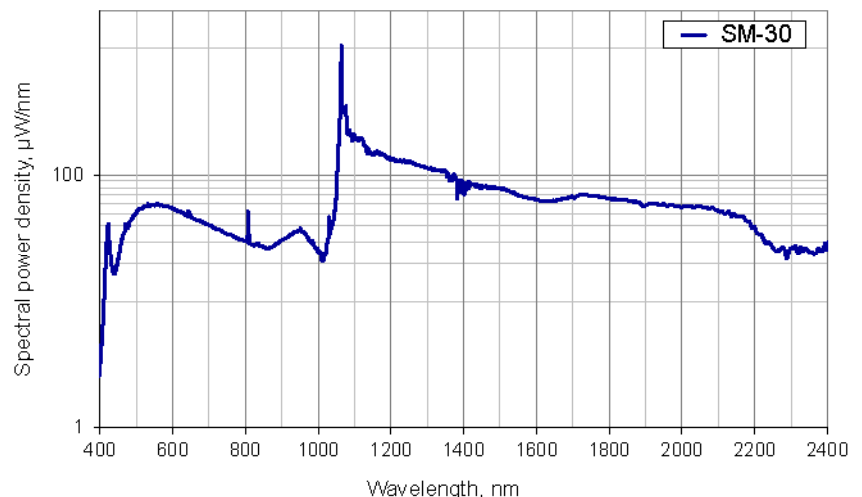
- From visible to IR  
420 nm - 2400 nm
- Singlemode TEM<sub>00</sub>
- Various repetition rate  
8 kHz to 250 kHz
- High energy per pulse > 3  $\mu$ J
- Total average power  
up to 650 mW
- UV or IR extension  
available
- Maintenance-free
- Reliable all fibered compact  
broadband source

### APPLICATIONS

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



**The cost effective solution**



# SM Series

## Supercontinuum White Light Source

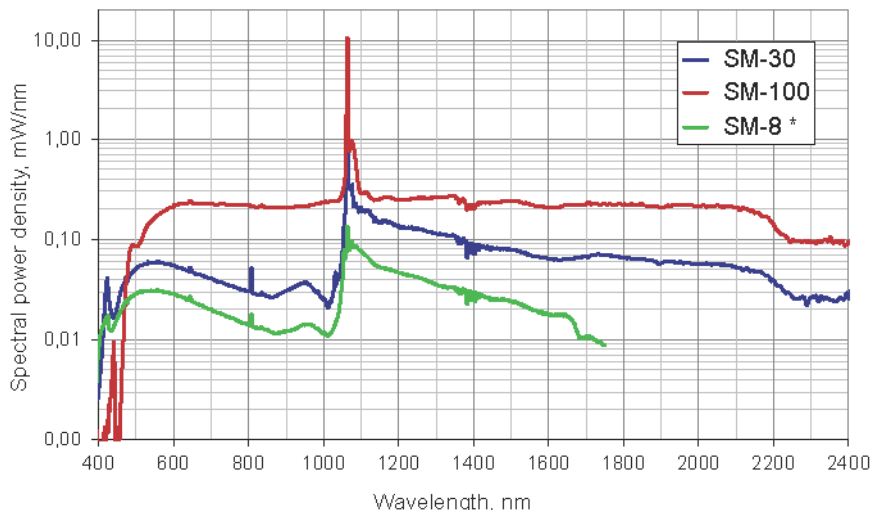
### SM-8 SM-30 SM-100

| Optical specifications      |     |                                  |           |                 |
|-----------------------------|-----|----------------------------------|-----------|-----------------|
| Spectral bandwidth          | min | < 420 nm                         | < 420 nm  | < 500 nm        |
|                             | Max | > 2100 nm                        | > 2300 nm | > 2300 nm       |
| Total average power         |     | > 20 mW                          | > 100 mW  | > 300 mW        |
| Seed repetition rate *      |     | ~ 8 kHz                          | ~ 30 kHz  | ~ 100 kHz       |
| Seed pulse width            |     |                                  | ~ 1 ns    |                 |
| Power stability **          |     |                                  | +/- 1.5 % |                 |
| Spatial mode                |     | Singlemode TEM00                 |           |                 |
| Polarization state          |     | Unpolarized                      |           |                 |
| Output connection           |     | FC/APC (~ 1 meter armored cable) |           |                 |
| Options                     |     | 1, 2, 3                          | 1, 2, 3   | 1, 3, 4, 5, 6,7 |
| Other specifications        |     |                                  |           |                 |
| Control interface           |     | Front panel and RS232            |           | RS232           |
| Dimensions (mm) (LxWxH) *** |     | 275x210x120                      |           | 205x210x170     |
| Weight                      |     | < 5 kg                           |           | < 8 kg          |
| Power requirements          |     | 100-240V, 50/60Hz                |           |                 |



#### OPTIONS

- Collimated output  
Broadband collimator
- Synchronization output  
External output trigger
- UV extension  
Spectral bandwidth 350-2000 nm
- IR extension  
Spectral bandwidth 900-2400 nm  
spike-free from 900 to 1540 nm
- VIS-IR extension  
Spectral bandwidth 550-2400 nm  
spike-free from 550 to 1540 nm
- Linear polarization
- Triggered version  
Input to directly trigger the laser.



SM-8 \*: Spectrum plot from 350 nm to 1750 nm due to measuring equipment limitations.



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

200 nm < λ < 3000 nm; Pulse width ≤ 1 ns; AVG Power ≤ 1 W  
This laser does not comply with 21 CFR 1040.10 nor IEC 60826.1-2001.  
Use only as an OEM component.

All specifications are subject to change without notice.  
LEUKOS SM-Series does not comply with CDRH requirements.  
The customer is responsible for CDRH certification of the systems  
incorporating the LEUKOS laser.

## STM-250-VIS-IR OEM

### Triggered Supercontinuum White Light Source

#### Optical specifications

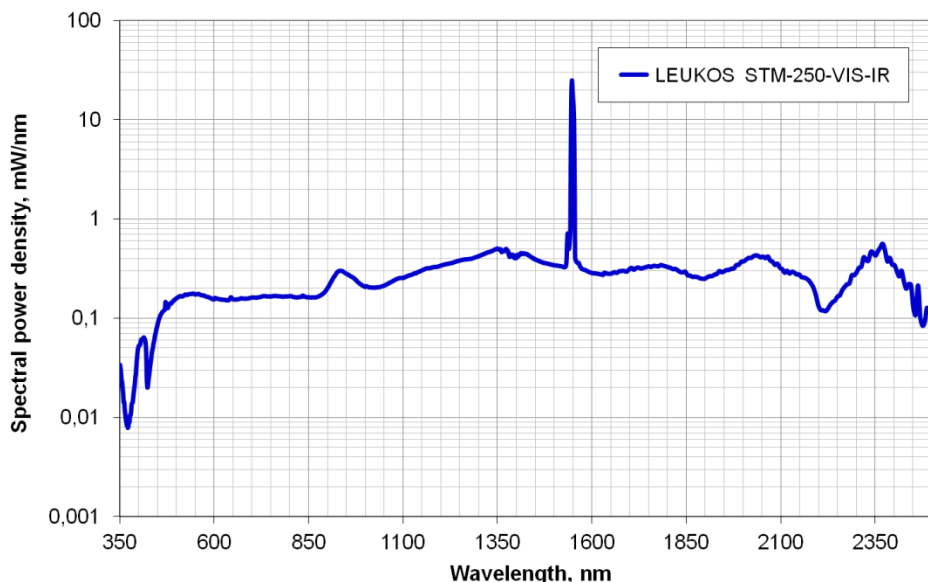
|                        |     |                                  |
|------------------------|-----|----------------------------------|
| Spectral bandwidth     | min | < 450 nm                         |
|                        | Max | > 2400 nm                        |
| Total average power    |     | > 650 mW                         |
| Visible average power  |     | > 40 mW (bandwidth 400-750 nm)   |
| Seed repetition rate * |     | 250 kHz                          |
| Timing jitter          |     | < 50 ns                          |
| Seed pulse width       |     | ~ 1 ns                           |
| Power stability **     |     | < +/- 1.5%                       |
| Spatial mode           |     | Singlemode TEM00                 |
| Polarization state     |     | Unpolarized                      |
| Output connection      |     | FC/APC (~ 1 meter armored cable) |

#### Other specifications

|                             |                   |
|-----------------------------|-------------------|
| Control interface           | RS232             |
| Dimensions (mm) (LxWxH) *** | 205 x 210 x 270   |
| Weight                      | < 8 kg            |
| Power requirements          | 100-240V, 50/60Hz |



noncontractual picture



\* Fixed repetition rate at 250 kHz. The laser required an external trigger signal via Trigger INPUT. Trigger signal is TTL with 50% duty cycle.

\*\* Typical value of long term stability for total average power; measurements after warm-up time.

\*\*\* Other packaging available upon request.

