

SM-MIR Series Mid-IR Supercontinuum Laser Source

The SM-MIR series is the new generation of supercontinuum laser delivering a unique spectrum in the Mid-IR. This efficient generation of the spectral broadening in a state of the art highly non linear fiber is based on LEUKOS' over 10 years' experience in the field of supercontinuum laser. The SM-MIR series is build on a mature reliable technology, the laser is turnkey, easy to operate and delivered with real achromatic collimated output to ensure a perfect collimation over its wide spectral range.

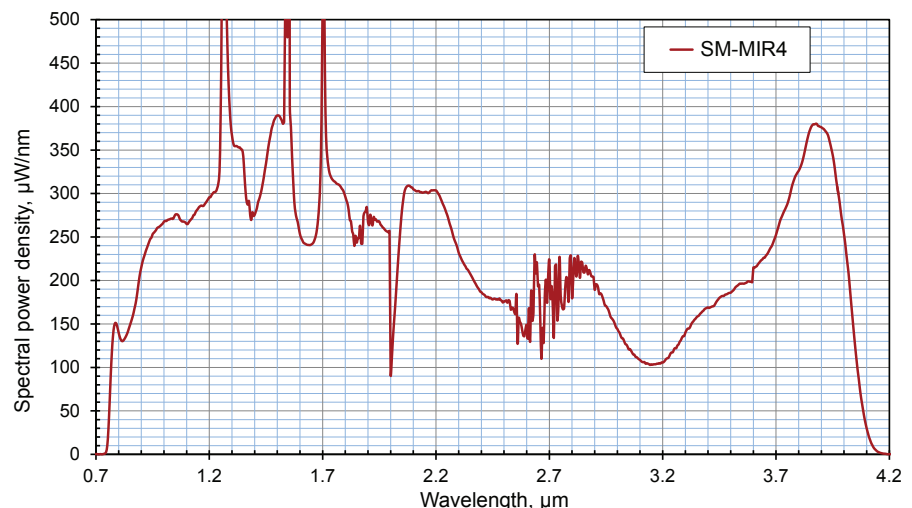
FEATURES

- IR spectral coverage 800 nm - 4000 nm
- Singlemode TEM00
- Total average power > 700mW
- Repetition rate > 100 kHz
- Flexible fiber output
- Achromatic collimation
- Reliable laser design
- Maintenance-free

APPLICATIONS

- Spectral imaging
- LIDAR
- Spectroscopy
- Chemical finger printing
- Metrology
- Microscopy

NEW
Mid-IR broadband laser
up to 4.100 nm



SM-MIR Series

Mid-IR Supercontinuum Laser Source

SM-MIR4

| Optical specifications | | |
|-------------------------------------|-----|--------------------------------|
| Spectral bandwidth | min | < 800 nm |
| | Max | > 4000 nm |
| Total average power | | > 700 mW |
| Seed repetition rate ⁽¹⁾ | | > 100 kHz |
| Timing jitter | | < 20 ns |
| Seed pulse width | | > 100 ps |
| Power stability ⁽²⁾ | | +/- 2 % |
| Spatial mode | | Gaussian, singlemode |
| Polarization state | | Unpolarized |
| Fiber length | | ~ 1 m (armored cable) |
| Output connection | | Collimator (reflective optics) |
| Synchronization | | Trigger output (BNC) |
| Other specifications | | |
| Control interface | | Front panel, RS232 |
| Operating temperature | | +15°C to +35°C |
| Weight | | < 15 kg |
| Dimensions (LxWxH) ⁽³⁾ | | 483x250x134 mm |
| Power requirements | | 10-240V, 50/60Hz |



OPTIONS

- Externally triggered
External clock TTL signal is required to trigger the laser.
- Pulse width
Other values of pulse width are available upon request.

- (1) Fixed repetition rate.
If option "Externally triggered" STM-MIR, a TTL input trigger signal with 50% duty cycle is required for laser operation.
- (2) Typical value of long-term stability for total average power.
- (3) Custom OEM packaging available upon request.

