

SCM mechanical format Ultra-Compact OEM Supercontinuum

LEUKOS SCM OEM mechanical format is one of the most compact supercontinuum laser packaging on the market. Dedicated to integration, it is robust, fits easily into tight space and it operates on a tremendous range of temperature.

This SCM OEM packaging is available with several LEUKOS supercontinuum series. The SCM laser can be UVA, Visible and NIR supercontinuum lasers covering all the SM-30 laser solutions.

FEATURES

- High temperature performance -10 to +50 °C
- Small footprint 130x85 mm
- From UV to NIR
320 nm - 2400 nm
- High spatial coherence
Single mode TEM00
- Flexible fibered output
- High energy per pulse > 3 μ J
- Total average power up to 250 mW
- Maintenance-free
- Reliable all fibered compact broadband source

APPLICATIONS

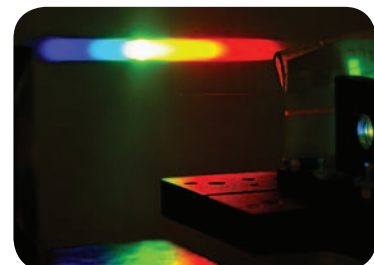
- Metrology
- Spectroscopy
- LIDAR
- High resolution imaging

Ultra-Compact OEM
UVA, White Light and NIR
Supercontinuum laser



Available on:

- SM UV Absolut series
- SM series
- SM-W Ultra-Bright
- SM-30 CUSTOM



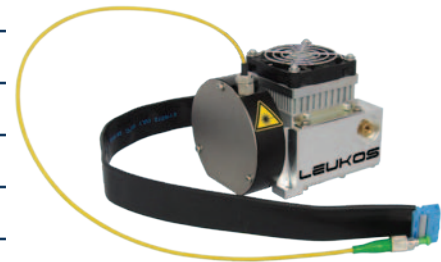
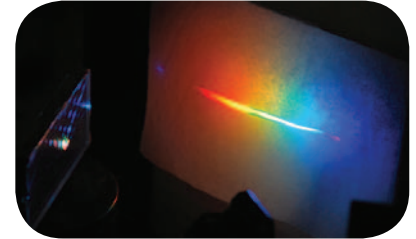
SCM mechanical format

Ultra-Compact OEM Supercontinuum

Optical performance examples:

SCM -30-UV SCM -30-450 SCM -30-W

Optical specifications		SCM -30-UV	SCM -30-450	SCM -30-W
Spectral bandwidth	min	< 340 nm	< 450 nm	< 500 nm
	Max	> 2200 nm	> 2400 nm	> 1900 nm
Total average power ⁽¹⁾		> 90 mW	> 150 mW	> 200 mW
Seed repetition rate ⁽²⁾		> 25 kHz (typical ~ 30 kHz)		
Triggerable range		10 Hz up to > 20 kHz		
Seed pulse width		~ 1 ns		
Timing jitter ⁽³⁾		< 2 μs		
Power stability ⁽⁴⁾		+/- 1 %		
Spatial mode		Singlemode gaussian TEM00		
Polarization state		Unpolarized		
Output connection		FC/APC (fiber length ~ 50 cm)		



SCM OEM Module Format

Mechanical/Environmental/Electrical specifications

Control interface	Controller and serial port
Operating temperature	-10°C to +50°C non condensing
Humidity	80% RH up to 40°C 60% RH above 40°C
Weight - Laser module	~ 1 kg
Footprint - Laser module	130x85 mm
Height - Laser module	95 mm (with fan)
Weight - Controller	< 280 g
Dimensions (LxWxH) - Controller	115x90x35 mm
Power requirements	12V, 6A

OPTIONS

- Laser output
FC/APC or FC/PC or other, or collimated output (lens or achromatic)
- Fiber length

- Power at the nominal repetition rate.
- Nominal repetition rate (maximum repetition rate) in free-running mode of operation.
- After warm-up time.
- Typical value of long-term stability for total average power at one fixed repetition rate, with a FC/APC connector.

