

## UVA Extended SM Series UV White Light Supercontinuum Source

Our UVA series is the new generation of our UV Extended white light supercontinuum lasers. Based on our unique expertise in UVA white light supercontinuum the **UVA Absolut** lasers are a reliable series delivering a continuous spectrum covering the UVA range 320nm up to the NIR 2200nm. With a single mode TEM00 Gaussian beam, they are a flexible effective replacement for lamp in applications requiring high spatial coherence.

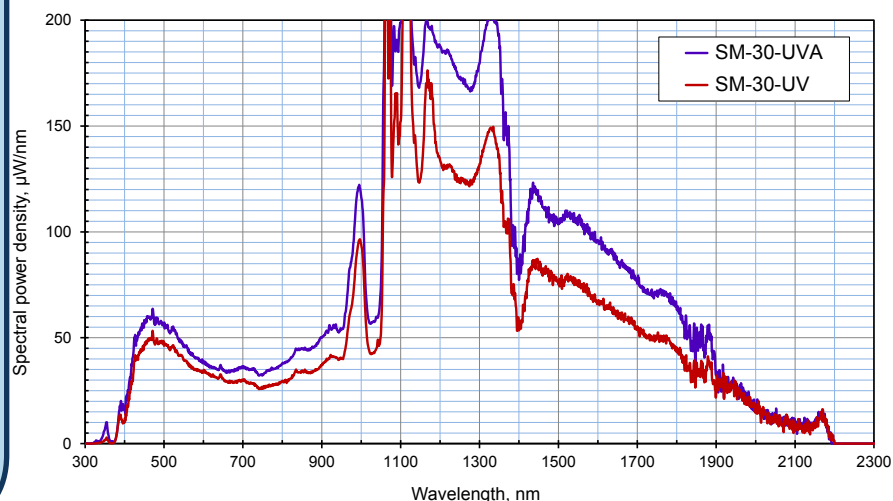
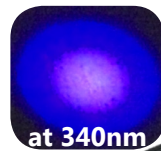
### FEATURES

- From UVA to NIR  
320 nm - 2200 nm
- High spatial coherence  
Single mode TEM00  
Gaussian spot
- More than 90mW total power
- High energy per pulse  $> 3 \mu\text{J}$
- Flexible single mode fiber  
output
- Maintenance-free
- Reliable all fibered compact  
broadband source

### APPLICATIONS

- Optical component testing
- Spectroscopy
- Metrology
- Flow cytometry
- Material properties  
characterization

**NEW Generation!**  
More powerful  $> 90\text{mW}$   
Single mode TEM00 down to 320nm

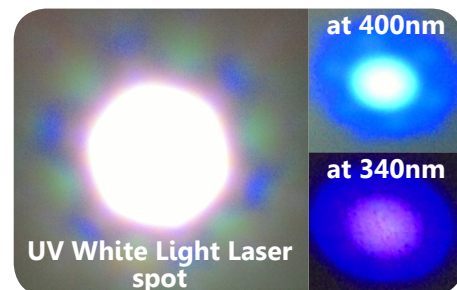


# UV Absolut by LEUKOS Innovative Optical Systems

## UV White Light Supercontinuum Source

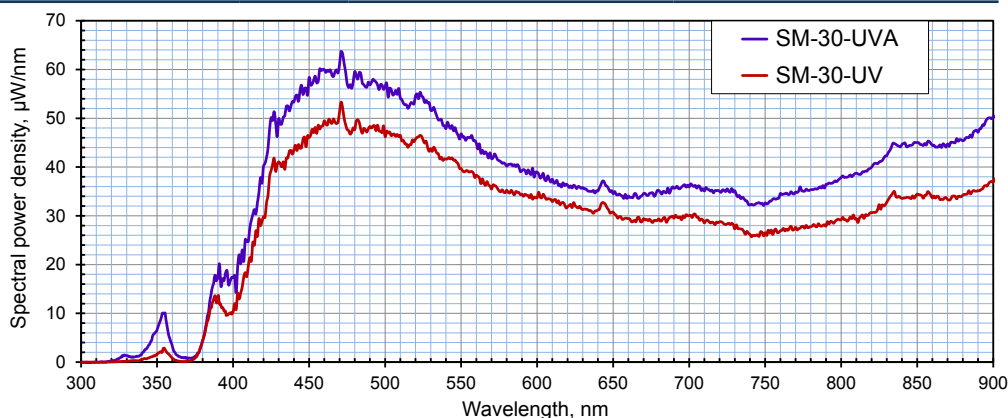
### SM-30-UV SM-30-UVA

Optical specifications			
Spectral bandwidth	min	< 340 nm	< 320 nm
	Max	> 2200 nm	> 2200 nm
Total average power <sup>(1)</sup>		> 90 mW	> 100 mW
Total Visible power <sup>(2)</sup>		> 14 mW	> 15 mW
Seed repetition rate <sup>(3)</sup>		~ 30 kHz (> 25 kHz)	
Triggerable range		10 Hz up to 15 kHz	
Timing jitter <sup>(4)</sup>		< 2µs	
Power stability <sup>(5)</sup>		+/- 1 %	
Seed pulse width		~ 1 ns	
Spatial mode		Singlemode Gaussian TEM00	
Polarization state		Unpolarized	
Laser output		FC/APC (> 1 meter armored cable)	
Synchronization output		External Trigger Output	
Other specifications			
Control interface		Front panel and USB	
Operating temperature		+5°C to +45°C non condensing	
Weight		< 5 kg	
Dimensions (LxWxH) <sup>(6)</sup>		275x210x120 mm	
Power requirements		100-240V, 50/60Hz	



#### OPTIONS

- 1 Laser output  
FC/APC or FC/PC or other, or collimated output (lens or achromatic)
- 2 Output pigtail length ~ 2 m
- 3 Jitter optimization < 500 ns  
Optimization at one repetition rate other than nominal (> 500 Hz)
- 4 Laser optimization at another nominal repetition rate  
For 8kHz nominal repetition rate SM-8-UV and SM-8-UVA model



- (1) Total average power at the supercontinuum nominal repetition rate.
- (2) Total average power on the range 300-850nm at nominal repetition rate..
- (3) Nominal repetition rate, free-running mode of operation.
- (4) After warm-up time.
- (5) Typical value of long-term stability for total average power at one fixed repetition rate.
- (6) SCM OEM packaging available upon request.

**LEUKOS**  
Innovative Optical Systems



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

200 <math>\lambda</math> < 2400 nm - P < 200 mW - Qi > 3.2 µJ - ti < 2 ns  
Class 3b (IIIb) 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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