

# SC-2000 Supercontinuum

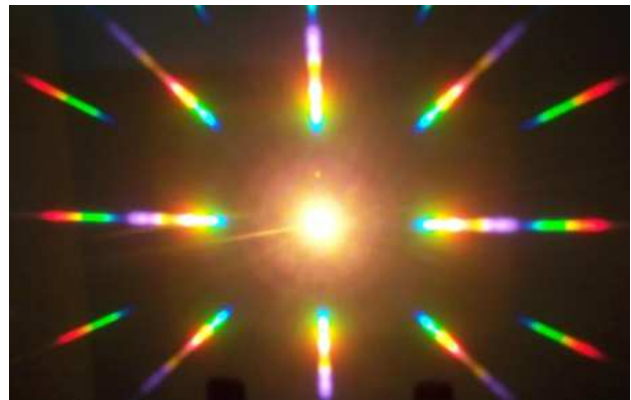
2000 nm BROADBAND  
FIBER WHITE-LIGHT SOURCE



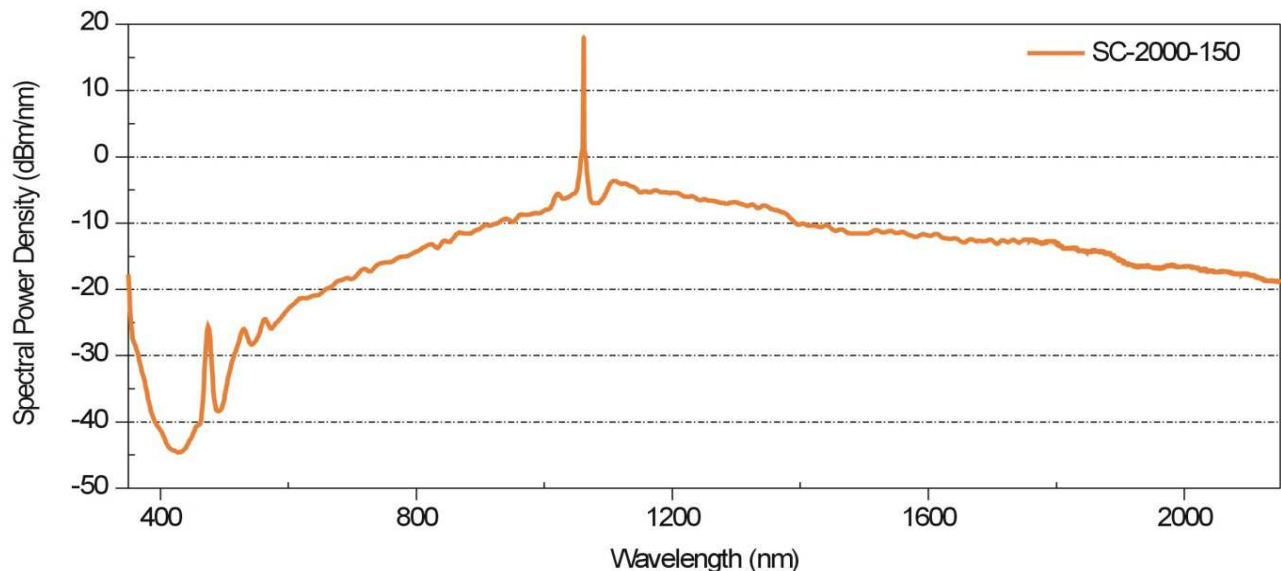
- High brightness white light source
- Cost-effective and compact
- Spectrum from 400 nm to 2400 nm
- > 500 mW total power (full spectrum)
- Single mode across full spectrum
- Fiber delivered beam
- Pulsed or Quasi-cw regime
- Fiber-based chromatic filtering options

ChyLas **SC-2000** systems are cost-effective sources of ultrabroadband supercontinuum radiation. They deliver white light of high brightness within a spectral range from 400 to 2400 nm.

**SC-2000** sources deliver output total powers over 500 mW, with single mode high quality beam emission over the full spectrum.



2D Diffraction pattern of SC-2000 beam.



## Applications

- |   |   |
|---|---|
| • <b>Broadband Spectroscopy</b>                       | • <b>Industrial Inspection</b>                    |
| • <b>Multispectral Vision</b>                         | • <b>Test and measurement of photonic devices</b> |
| • <b>Optical Coherence Tomography (OCT)</b>           | • <b>Scanning Tunneling Microscopy</b>            |
| • <b>Chromatic Confocal Microscopy</b>                | • <b>Nanophotonics</b>                            |
| • <b>Bio-Imaging (e.g: In Vivo Molecular Imaging)</b> | • <b>Research</b>                                 |

## Standard Specifications

SC - 2000 Supercontinuum		
Model	SC- 2000-500	SC- 2000-30
Spectral Range	400-2400 nm	400-2400 nm
Total Power (full spectrum)	> 500 mW	> 30 mW
Emission Regime	Quasi - Continuous Wave	Pulsed
Repetition rate	Variable ~ 50 kHz	15 - 20 kHz
Pulsewidth	< 50 ns	< 1 ns
Synchronization	270 Hz (optional)	Trigger output (optional)
Power Stability	< 1 %	
Output optic port	Beam diameter < 0.5 mm. Collimated output.	
Output polarization	Unpolarized	
Cooling	Integrated Peltier + air cooling	
Power requirements	220 V - 50 Hz	
Display	LCD module	
Displayed parameters	<ul style="list-style-type: none"> <li>- Optical Output Power</li> <li>- Driving Electric Current</li> <li>- TEC energy consumption</li> <li>- TEC diode temperature</li> <li>- Mode: manual/remote</li> </ul>	
Output fiber length	1.5 m / Custom	
Chromatic filtering	Plug and Play bandpass fiber-based filters (optional)	
Dimensions (mm)	380 x 340 x 140	
Weight	~ 3 kg	