

High Power Supercontinuum Source SC-Pro

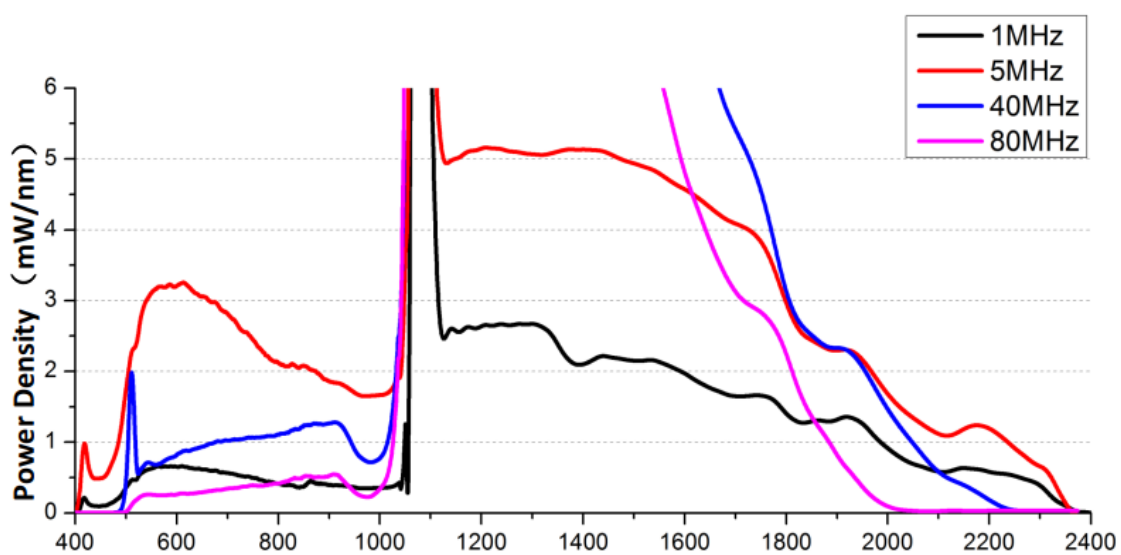
YSL Photonics' SC-Pro is the latest high-power supercontinuum source with variable repetition rate from 10kHz to 80MHz. It delivers a wide spectral output ranging from 430nm to 2400nm with 8W total power (10-20W optional). It has the unique feature of 1MHz-80MHz external triggerable range which could be very useful for locking to the mode-locked laser for pump-probe application. SC-Pro offers $>1\mu\text{J}$ pulse energy (@1MHz), making it the ideal source for super resolution microscopy. The 10kHz to 80MHz repetition rate capability makes it an ideal source for the applications such as low noise OCT, fluorescence microscopy, nanophotonics and etc.

Features:

- Wavelength: 430nm-2400nm
- Total power: 8W (10-20W Optional)
- Internal Repetition Rate: 0.01-80MHz
- External Triggerable (Optional): 1MHz-80MHz
- Pulse Energy: $>1\mu\text{J}$

Applications:

- OCT
- Fluorescence Spectroscopy and Microscopy
- Nanophotonics
- Super-Resolution Imaging
- Photocurrent microscopy



8W SC Pro Typical Spectrum

Specifications:

| Model | SC Pro |
|-----------------------------------|--|
| Total Power | >8W |
| Wavelength Range | 430-2400nm |
| Pulse Energy | >1 μ J |
| Visible Power | > 1000mW |
| Power Stability | <1% |
| Fundamental Pulse Width | ~100ps |
| Internal Repetition Rate | 10kHz-80MHz adjustable |
| External Trigger (Optional) (SMA) | 100kHz-2MHz or 1MHz-80MHz External trigger range 0-5V |
| Beam Diameter and Quality | ~2mm@633nm; $M^2 < 1.1$ |
| Beam Divergence (Half Angle) | <1mrad |
| State of Polarization | Unpolarized |
| Length of Output Fiber | 1.5m |
| Computer Interface | USB |
| Sync(trigger) Output (SMA) | NIM Output 0--1V |
| Power Requirements | 100-240V 50/60Hz |
| Dimensions (L*W*H) and Weight | 360mm*260mm*125mm, <20kg |

Optional:

Total Power: 10-20W

Fundamental Pulse Width: 50ps

