

Supercontinuum Laser - SL-Pico

Powerful pico-second pulsed laser source with precision software controls

SL-Pico and SL-Pico-M are Spectrolight's latest pico-second pulsed supercontinuum laser sources. These lasers are capable of delivering up to 20 W output power and a wide spectral range of 410 - 2400 nm. These state-of-the-art pico-second pulsed lasers are applicable in many fields that require high repetition rate capability, such as low noise OCT, fluorescence microscopy, nanophotonics and super-resolution imaging.



Specifications

SL-Pico

- Total power : > 8 W (10 - 20 W Optional)
- Spectral wavelength : 430 - 2400 nm
- Visible power : > 1 W
- Power stability : < 1 %
- Output pulse width : < 300 ps
- Internal repetition rate : 10 kHz - 80 MHz adjustable
- External trigger (Optional) (SMA) : 100 kHz - 2 MHz or 1MHz ~ 80MHz, External trigger range 0 - 5 V
- Sync(trigger) Output : (Optional) NIM Output 0 - (-1) V or TTL Output 0 - 3.3 V
- Beam diameter and quality : ~ 2 mm@633 nm; M2<1.1
- Beam divergence (Half angle) : < 1 mrad
- State of polarization : Unpolarized
- Length of output fiber : 1.5 m
- Dimension and weight : 400 x 300 x 180 mm, < 20 kg
- Input power: AC 100 - 240 V, 50/60 Hz
- Data interface : USB

SL-Pico-M

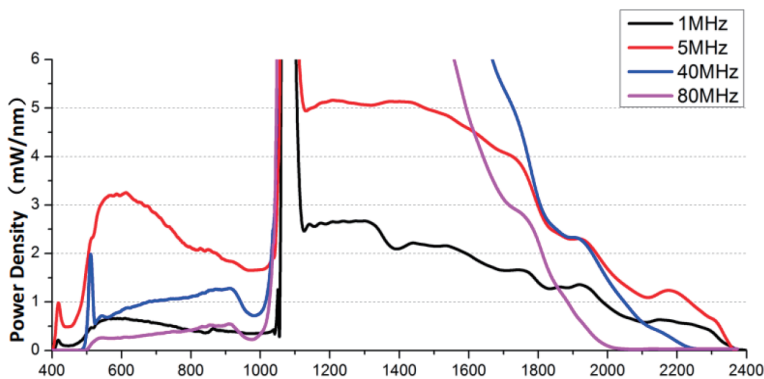
- Total power : > 7 W
- Spectral wavelength : 410 - 2400 nm
- Visible power : > 2 W
- Power stability : < 1 %
- Output pulse width : ~ 20 ps
- Internal repetition rate : 80 MHz (fixed)
- External trigger (Optional) (SMA) : TTL Output 0 - 2.8 V
- Sync(trigger) Output : TTL Output 0 - 2.8 V
- Beam diameter and quality : ~ 2 mm@633 nm; M2<1.1
- Beam divergence (Half angle) : < 1 mrad
- State of polarization : Unpolarized
- Length of output fiber : 1.5 m
- Dimension and weight : 400 x 300 x 180 mm, < 20 kg
- Input power: AC 100 - 240 V, 50/60 Hz
- Data interface : USB

Supercontinuum Laser – SL-Pico Application

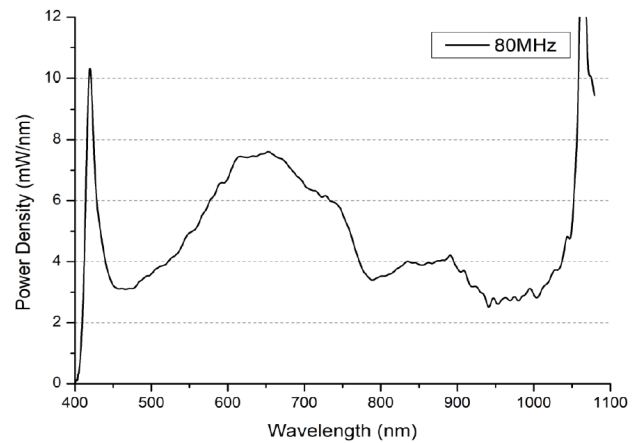


- Powerful Supercontinuum Laser Source
- Easy connection and alignment using the WS-SCAY accessory.
- Fully compatible and tunable with the Flexible Wavelength Selector.

FWS-Poly + SL-Pico-M



Typical spectrum of SL-Pico at each repetition rate (1, 5, 40, 80 MHz)



Typical spectrum of SL-Pico-M at 80 MHz