



Atoms to Stars

A **highly stable picosecond supercontinuum fiber laser** delivering over 1 Watt of average power across the 450-2300 nm* spectral range and more than 30 mW in the visible range.

The FYLA SCT is a very versatile illumination source with a broadband spectrum that can be used for multiple applications including absorption/transmission measurements for material characterization, VIS, NIR and IR spectroscopy, single molecule spectroscopy and fluorescence excitation.

FYLA SCT Specifications

Total Power >1000 mW

Fundamental
Pulsewidth < 10 ps



Spectral Range	450-2300 nm
Repetition Rate	40 MHz
Full Spectrum Power Stability	<0,5 % (std. dev.)
Output Polarization	Unpolarized
Output Fiber / Length	Single Mode / 1.0 m (customizable)
Optical Output	Collimated (in the range 450-1000nm), Single-mode across full spectrum
Synchronization / Connections	Optical Reference Signal / FC/APC Conector
Beam Diameter	< 4.0 mm (1/e ² @ 532 nm, 0.5 m from output)
M2 Parameter	< 1.2
Cooling	Thermoelectric cooler + air cooling
Power Requirements	220 V / 110V - 50/60 Hz
Displayed Parameters (Controlled)	Optical Output Power Driving Electric Current TEC energy consumption TEC diode temperature

FYLA SCT Specifications

Control Modes Mode Manual/Remote (USB Port)

Operating
Temperatures 20 - 30 °C

Storage
Temperature 0 - 60 °C

Dimensions
(mm) 436x560x151 (WxDxH)

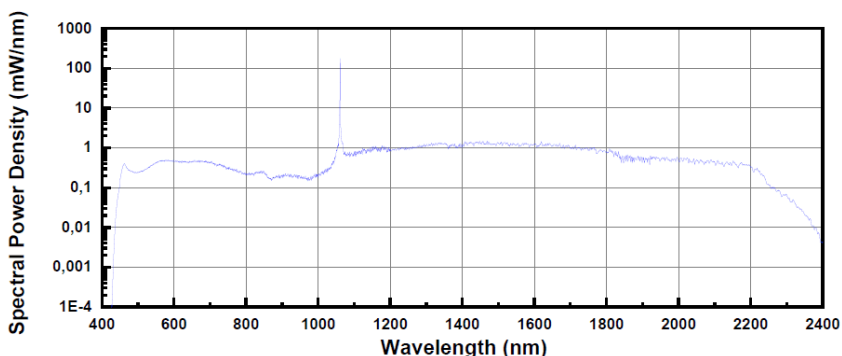
Power by
spectral band 450-750nm >30mW / 750-1000 nm
>50mW / 1000-1100nm >400mW /
1100-2300nm >800mW

Security This product is a Class 4 laser.
Appropriate safety measures according
to such laser class should be taken in
its installation and use

SPECTRAL
PROFILE AND
OTHER
DETAILED
SPECS UNDER REQUEST

Specifications are subject to change without notice*

Optical Spectrum



OPTICAL SPECTRUM

Approximate.



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