

FYLA SC is a pulsed cost-effective supercontinuum nanosecond fiber laser with the highest energy per pulse (up to 50 uJ), a broad spectrum, and a random repetition rate of the order of kHz. Its use is especially interesting in photoacoustic microscopy, and applications requiring speckle removal and non-labeled fluorescence imaging.

FYLA SC Specifications

Total Power	>500 mW
Fundamental Pulsewidth	<50 ns
Spectral Range	450-2400 nm
Repetition Rate	Random ~ 50KHz
Full Spectrum Power Stability	1- 2 % (Std. Dev.)



FYLA SC Specifications

Output Polarization	Unpolarized
Output Fiber / Length	Single Mode / 1.5 m - Custom
Optical Output	Collimated, Single-mode across full spectrum
Synchronization / Connections	Trigger Output Optional
Beam Diameter	2.4 mm (1/e ² @ 1064 nm, 0.5 m from output) Customisation down to 1 mm
M2 Parameter	< 1.2
Half-angle Beam Divergence	0,032° (at 1064 nm)
Cooling	Integrated Peltier + air cooling
Power Requirements	220 V / 110V - 50/60 Hz
Display	LCD
Displayed Parameters (Controlled)	Optical Output Power Driving Electric Current TEC energy consumption TEC diode temperature
Control Modes	N/A
Operating Temperatures	15 - 30 Celsius

FYLA SC Specifications

Storage Temperature 0 - 60 Celsius

Dimensions (mm) 400 x 162 x 157

Energy per Pulse Up to 50 MicroJ

Power per spectral bands 450 - 750 nm >10mW / 750 - 1030 nm >75 mW / 1030 - 1050 nm >190 mW / 1050 - 2400 nm >365 mW

SPECTRAL PROFILE AND OTHER DETAILED SPECS UNDER REQUEST

Specifications are subject to change without notice*



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