

FYLA LFC1500X

FYLA LFC1500X is a complete laser system enabling extreme pulse control and measurement, offering the user an unmatched level of versatility. With the independent adjustment of three key parameters: frequency, pulse energy, and pulse width, FYLA LFC is an ideal laser for nonlinear optics applications, especially two-photon and three-photon absorption spectroscopy and microscopy.

FYLA LFC1500X Specifications

Total Power > 100 mW @10 MHz

Fundamental
Pulsewidth 120 fs

Spectral Range 1560 nm

Repetition Rate 10 MHz (Fundamental)



FYLA LFC1500X Specifications

Full Spectrum Power Stability	<1 % (std. dev.)
Output Polarization	Linearly Polarised
Output Fiber / Length	1.5 m
Optical Output	Free Space
Synchronization / Connections	USB (comms) - BNC trigger output - Interlock
Beam Diameter	2.1 mm or 3.5 mm (1/e ²)
M2 Parameter	<1.2
Half-angle Beam Divergence	0,032° (at 1560 nm)
Cooling	Integrated Peltier + air cooling
Power Requirements	220 V / 110V - 50/60 Hz
Display	N/A
Displayed Parameters (Controlled)	Laser On- Off / Pulse Energy Selection & Monitoring / Rep. Rate Selection & Monitoring / Laser Direct spectrum / SHG spectrum / Pulselwidth Selection & Monitoring / Temporal pulse shape Monitoring: phase + amplitude / Pulse spectrum Monitoring: phase + amplitude

FYLA LFC1500X Specifications

Control Modes	Mode Manual/Remote
Operating Temperatures	20 - 30 Celsius
Storage Temperature	0 - 60 Celsius
Dimensions (mm)	500 x 800 x 300 (Main Laser Module)
Pulsewidth Tunability	200 fs to 600 fs
Repetition Rate Tunability (Pulse Train)	Single Shot to 10 MHz
Pulse Energy Range	<10 pJ to >10 nJ
Electromechanical Shutter Output	Rise-time: 1 ms , Sync. to Pulse train

Specifications are subject to change without notice*