

Stable and reliable visible high performances CW lasers



MAIN FEATURES

- LASER OPERATION
- OUTPUT POWER UP TO 1W
- SINGLE FREQUENCY OPERATION
- SINGLE MODE OUTPUT $M^2 < 1.2$
- WAVELENGTH LOCKING CAPABILITY
- HIGH STABILITY OVER VIBRATION AND TEMPERATURE
- RELIABLE INDUSTRIAL GRADE COMPONENTS
- MAINTENANCE FREE

APPLICATIONS

- DIPOLAR TRAPPING
- FILTERED RAYLEIGH SCATTERING
- HOLOGRAPHY
- SCIENCES

EYLSA: Set it and forget it

With the new EYLSA platform stay focused on your research not on the laser.

The high performance design of the EYLSA 532 lasers is based on high stability laser diodes and micro-cavity fiber laser which are amplified by fiber amplifier stages and then frequency doubled with single-pass periodically poled crystals. The EYLSA's high performance design utilizes embedded air-cooling to provide exceptional high wall plug efficiency.

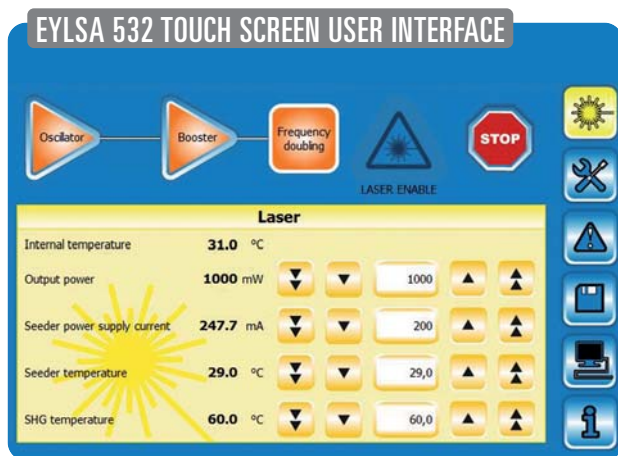
This robust architecture provides industry leading performance which is insensitive to both ambient temperature changes and environmental vibrations. The high reliability of EYLSA's integrated components ensures a long lifetime without any maintenance or preventive service (no realignment, no need to clean optics) and is guaranteed with a 1-year warranty.



EYLSA SPECIFICATIONS

CHARACTERISTICS	UNITS	EYLSA-L-532-1-P-SN-W-FS	EYLSA-L-532-1-P-UN-W-FS
OPTICAL CHARACTERISTICS		LASER	SEEDER + AMPLIFIER
Wavelength	nm	532 +/- 1	532 +/- 1
Linewidth (1 ms integration) ¹	kHz	≤ 2000	≤ 150
Coarse tunability	GHz	NO	250
Fine tunability	GHz	NO	10 (at 10 Hz)
Average output power	W	1	1
Power stability (1 hour)	%	+/- 1	+/- 1
Intensity noise (RMS, DC to 1 MHz)	%	≤ 0.1	≤ 0.5 (from DC to 100 KHz)
OSNR (0.01 nm resolution)	dB	≥ 60	≥ 60
Fundamental wavelength rejection	dB	≥ 40	≥ 40
Mid-stage access at fundamental wavelength		NO	NO
Maximum mid-stage losses	dB	/	/
OUTPUT CHARACTERISTICS		Free-space wavelength conversion module	Free-space wavelength conversion module
Output type			
Beam quality	M ²	≤ 1.2	≤ 1.2
Beam profile		TEM00	TEM00
Beam diameter	mm	0.28 +/- 0.05	0.28 +/- 0.05
Pointing stability	μrad/C°	/	/
Polarization extinction ratio	dB	> 20	> 20
FACILITY REQUIREMENTS			
Supply voltage	VAC	110 – 240	110 – 240
Power consumption	W	≤ 250	≤ 250
Cooling		Air cooled	Air cooled
Operating temperature	°C	5 – 35	5 – 35
External seeder dimensions	mm ³	/	449 x 383 x 104
Laser box dimensions	mm ³	445 x 420 x 148	445 x 420 x 148
Laser head dimensions	mm ³	133 x 50 x 30	133 x 50 x 30
Fiber delivery length	m	1	1

¹ Narrower linewidth available with external seeder



DIMENSIONS

EYLSA Platform

- A 420 mm [16.53"]
- B 445 mm [17.52"]
- C 148 mm [5.82"]



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