

Compact Picosecond Laser

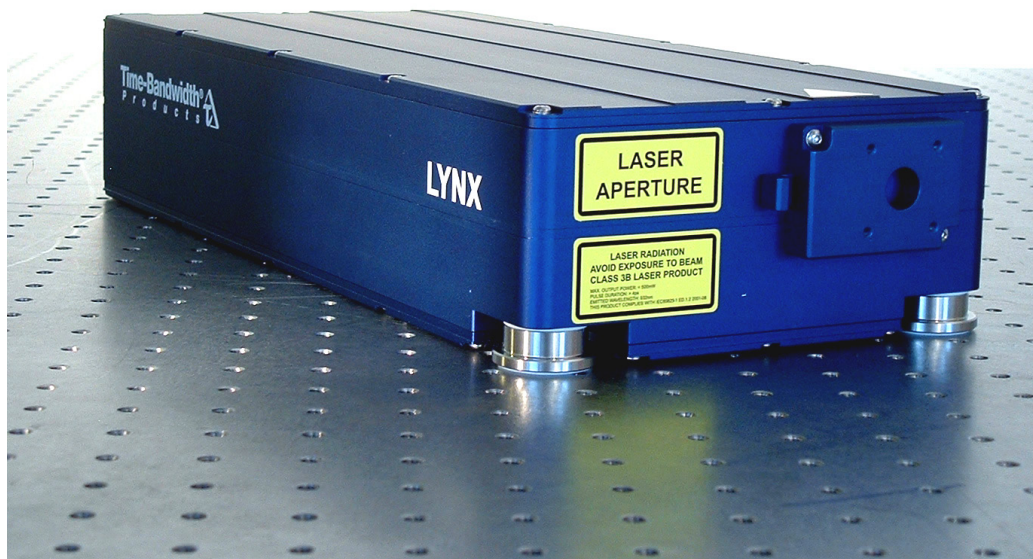


Applications

- FLIM
- Seeding amplifiers
- Time resolved fluorescence spectroscopy
- Two-photon microscopy
- TCSPC
- Pump-probe experiments
- Opto-electronic testing

Features

- Passively mode-locked DPSSL
- Sealed laser head
- Maintenance free
- Air-cooled
- Low cost

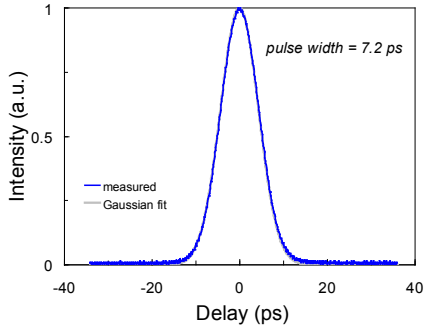


Options

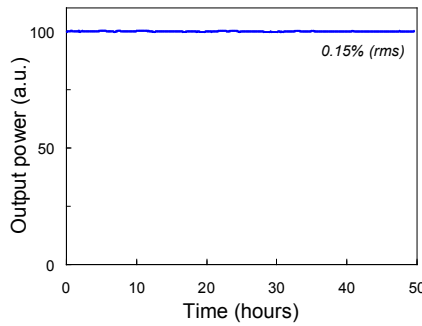
- High power
- Second harmonic generation
- Extended pulse widths
- Clock synchronization
- 1342nm output wavelength
- Long-term power stabilization
- Fiber coupling
- RS-232

	8 ps	pulse width
1064 nm, 1053 nm, 1047 nm		wavelength
	10 MHz – 350 MHz	repetition rate
up to 1W @ 1064 nm		output power
	1%/°C	power stability
	TEM ₀₀	spatial mode
	1.1	M ²

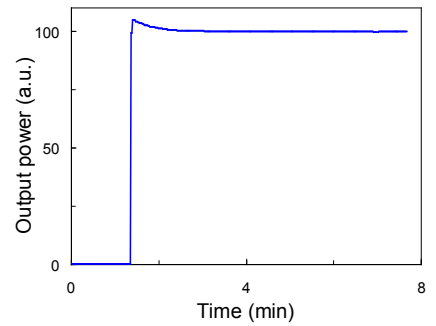
The LYNX laser system consists of a diode-pumped, solid-state, passively mode-locked laser employing Time-Bandwidth Products' patented SESAM® technology, resulting in clean picosecond pulses with unprecedented stability, and a microprocessor-controlled power supply for simple ease of use.



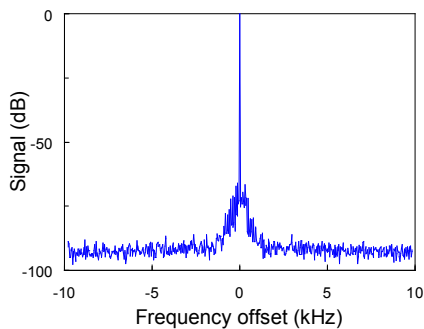
Typical autocorrelation trace of the LYNX (Nd:YVO₄) laser pulses



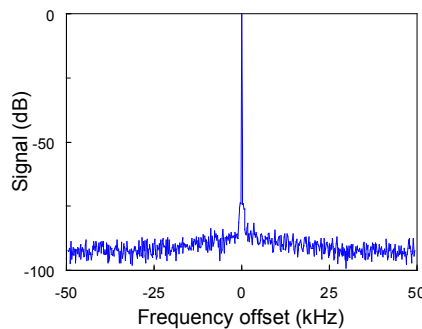
Average laser output power (long term)



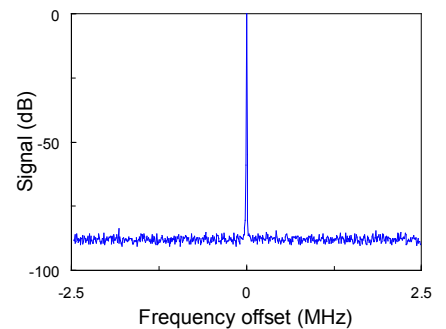
Average laser output power after a coldstart



Typical microwave spectrum of the pulse train, centered at the laser repetition rate (span: 20 kHz, resolution: 3 Hz, vertical scale in dB)



Typical microwave spectrum of the pulse train, centered at the laser repetition rate (span: 100 kHz, resolution: 30 Hz, vertical scale in dB)



Typical microwave spectrum of the pulse train, centered at the laser repetition rate (span: 5 MHz, resolution: 1 kHz, vertical scale in dB)

The LYNX laser system provides mode-locked picosecond pulses in a compact, robust, price-competitive package that requires only air-cooling. The sealed laser head allows for reliable and maintenance free operation resulting in low operating costs. The laser is a true turn-key system and reaches its specified performance within minutes.

Additional specifications	LYNX (all models)
turn-on time	1 min
pointing stability	25 μrad/°C
power stability (>1kHz)	0.1% rms
voltage	100 VAC – 240 VAC
frequency	50 Hz – 60 Hz
input power (single phase)	200 VA
laser head (size, weight)	170 mm x 77.5 mm x 380 mm, 7.5 kg
power supply (size, weight)	255 mm x 110 mm x 320 mm, 5 kg



Does the LYNX laser system match your requirements? Please let us know the specifications of the laser you are looking for. A superior technology and a strong team enable us to tailor our products to your special needs.

All specifications are subject to change without notice. All numbers given in this datasheet are typical values and may depend on the specific laser configuration. SESAM is a registered trademark in the following countries: USA, Switzerland, United Kingdom, Germany, Austria, Netherlands, Belgium, Luxembourg, France, Italy, Russia, China, Liechtenstein, Estonia, and Lithuania. This product is protected by one or several of the following patents: US6,538,298, US6,466,604, US6,393,035, EP1149442