

High-Power Nonplanar Ring Oscillator Laser for Gravitational Wave Detection and Coherent Optical Communications

Our Product Introduction

for more products please visit us on spectralanalyser.com

Basic Information

- Place of Origin: CHINA
- Brand Name: JINSP
- Certification: CE ISO9001
- Model Number: LN1000 LN1200
- Minimum Order Quantity: 1
- Price: Negotiable
- Packaging Details: 1PC/BOX
- Delivery Time: 90-120 Working days
- Payment Terms: T/T
- Supply Ability: 20PCS / 90-120Working days



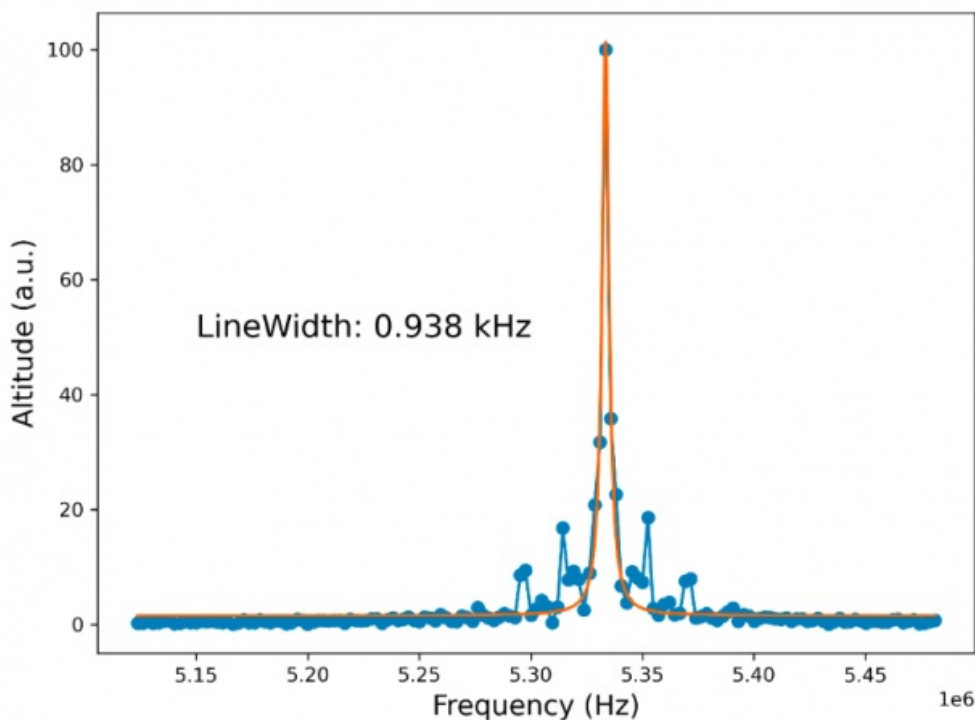
Product Specification

- Wave Length: 1064nm 532nm
- Power Stability: <1.5%
- Beam Quality: M2<1.2 M2<1.3
- Beam Divergence: 0.2±0.05(mrad)
- Warm-up Time (min): ~ 5 Or ~ 10
- Power Supply Voltage (V): 220
- Highlight: **High Power Nonplanar Ring Oscillator Laser,
Gravitational Wave Detection NPRO Laser,
Coherent Optical Communications NPRO Laser**

Product Description

Product Description:

LN series of narrow linewidth lasers offer high spectral purity, long coherence length, and low phase noise. It can be used as a core light source for applications such as gravitational wave detection, cold atom physics, coherent optical communications, optical precision measurements, and microwave photonic signal processing.

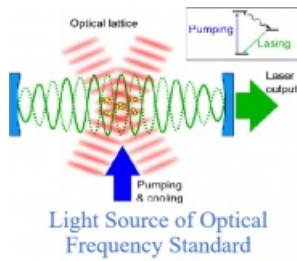


Product Selection Table & Parameters:

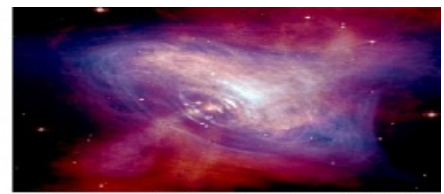
Product code	LN1000	LN1200
Wavelength(nm)	1064	532 (Including iodine stabilizing system)
Average Power (W)	2	0.01 (Maximum to 0.05, Customization required)
Power Stability (measured by Standard Deviation)	0.1%	1%
Beam Divergence (mrad)	1.2 @ 3mm Beam Waist	2.3 @ 3mm Beam Waist
Beam Quality	M2 < 1.2	M2 < 1.3
Linewidth (kHz)	1	3
Polarization	Linear	
Power supply voltage (V)	220	
Warm-up Time (min)	~ 5	~ 10
Storage Temperature (°C)	-10 °C ~ 50°C	

Advantages of Narrow Linewidth Light Sources:

- The measurement accuracy of high-speed ultra-precision laser interferometers is limited by the wavelength stability of the probing laser and the coherence coefficient of the interferometer.
- High-Power Output:** 1064nm narrow linewidth light sources provide high-power output, enhancing the coherence coefficient of the interferometer.
- High Wavelength Stability:** This improves measurement accuracy significantly. By utilizing ultra-narrow linewidth solid-state lasers, the measurement accuracy of laser rangefinders can be elevated to achieve measurement precision below the atomic scale within a range of 300mm.



Coherent Light Source for
Quantum Communication and
Quantum Computers



Light Source for Space-based Gravitational
Wave Detection (Michelson Interferometer)

Applications:

- Scientific Research Field (Scientific Research Institutes and Universities)
 - *High-precision Laser Rangefinder (Michelson Interferometer)
 - *Laser Frequency Standard Light Source (532 System) (Lead Time: 6 Months, Currently in Prototype Stage)
 - *Precision Spectral Measurement
- Core Components for Other Instruments (Manufacturers of Laser Instruments)
 - *Ultra-narrow Linewidth Laser Seed Source
- Industrial Manufacturing Fields
 - *Light Source for High-precision
 - *Laser Rangefinder in Integrated
 - *Circuits (532 System)

Company Profile



Certifications



FAQ:

Q1: This is the first time I use it, is it easy to operate?

A1: We will send you a manual and guide video in English, it can teach you how to operate the spectrometer. Also, our technicians will offer professional technical operation meetings.

Q2: Can you offer an operation training?

A2: Your technicians can come to our factory for training. Jinsp engineers can go to your place for local support (installation, training, debugging, maintenance).

Q3: How to receive the best price in the shortest time?

A3: When you send us an inquiry, please kindly offer details with wavelength, detector, effective pixels, focal length, and so on. We will send you a quotation with details soon to your email.

Q4: If the spectrometer has a problem in my place, what could I do?

A4: The spectrometer has a one-year warranty. If it breaks down, our technician will figure out what the problem may be, according to the client's feedback. We can repair for free within one year warranty.

Q5: What about quality assurance?

A5: We have a quality inspection team. All goods will go through quality inspection before shipment. We can send you pictures for inspection.



JINSP Company Ltd.

☎ 8618620854039

✉ phoebeyu@jinsptech.com

🌐 spectralanalyser.com

21st Floor, Building D, Tsinghua Tongfang Science and Technology Plaza, Haidian District, Beijing China