

## LN Series 1064nm 532nm Nonplanar Ring Oscillator Laser / Narrow Linewidth Solidstate Laser

Our Product Introduction

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### 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



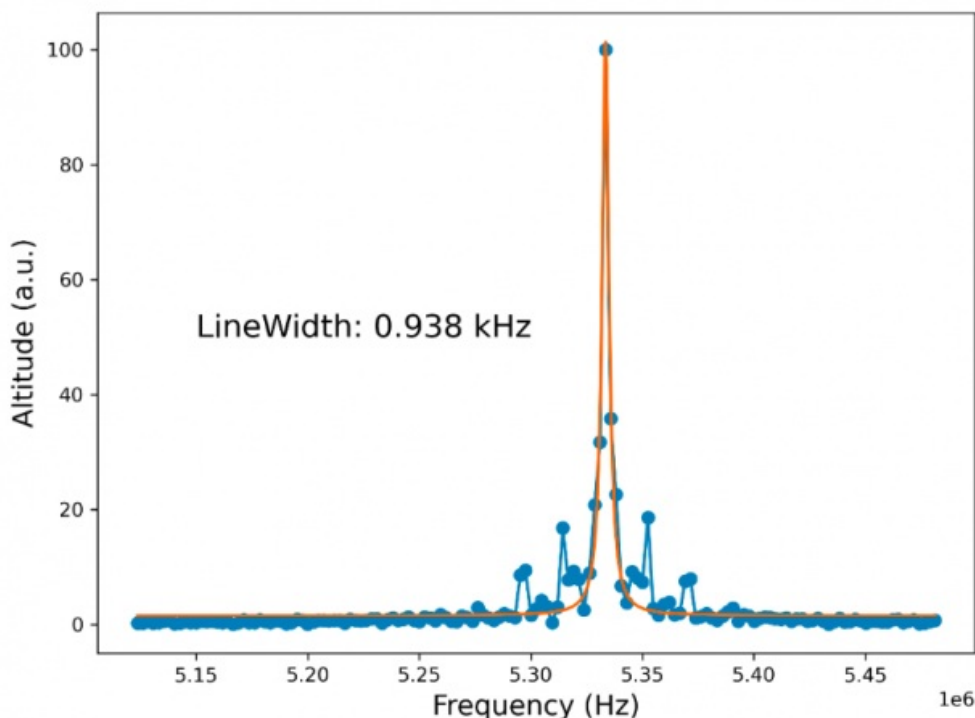
### Product Specification

- Wave Length: 1064nm 532nm
- Power Stability: <1.5%
- Beam Quality: M2<1.2 M2<1.3
- Beam Divergence: 0.2±0.05(mrad)
- Highlight: **532nm Oscillator Laser,  
Narrow Linewidth Solidstate Laser,  
1064nm solid state 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.

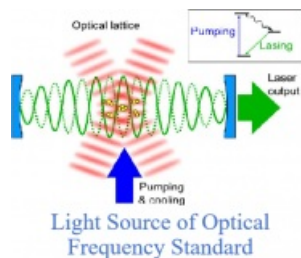


### Product Selection Table & Parameters:

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.



Light Source of Optical Frequency Standard



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)

## 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.



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