

Water-Cooled Nanosecond Long Pulse Laser for Continuous and Pulsed Output in Industrial Laser Applications

Our Product Introduction

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Basic Information

- Place of Origin: CHINA
- Brand Name: JINSP
- Certification: CE ISO9001
- Model Number: LS1210 LS1220
- Minimum Order Quantity: 1
- Price: Negotiable
- Packaging Details: 1PC/BOX
- Delivery Time: 80-90 Working days
- Payment Terms: T/T
- Supply Ability: 20PCS / 80-90Working days



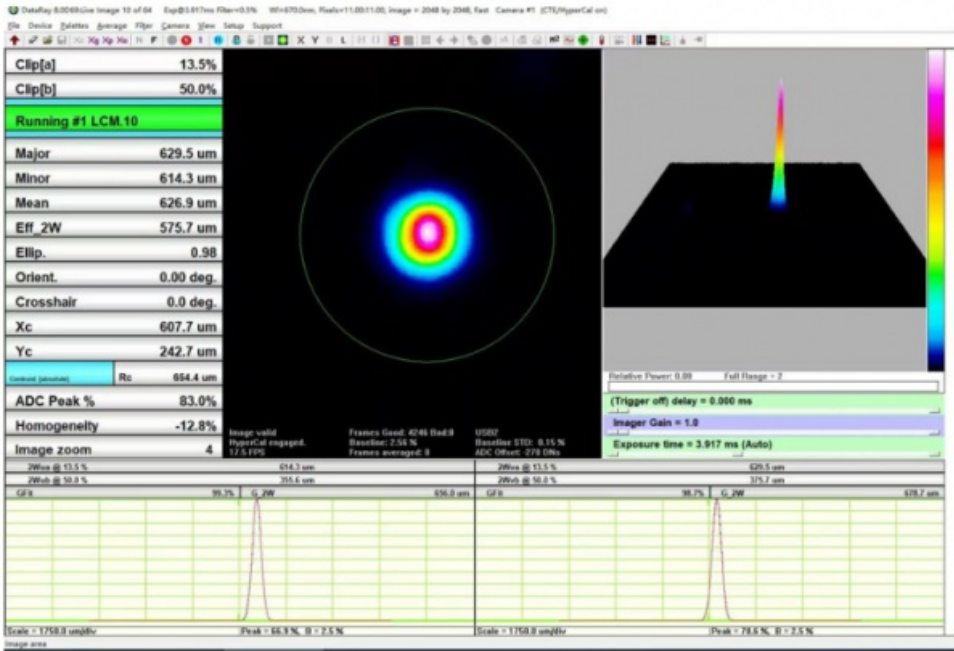
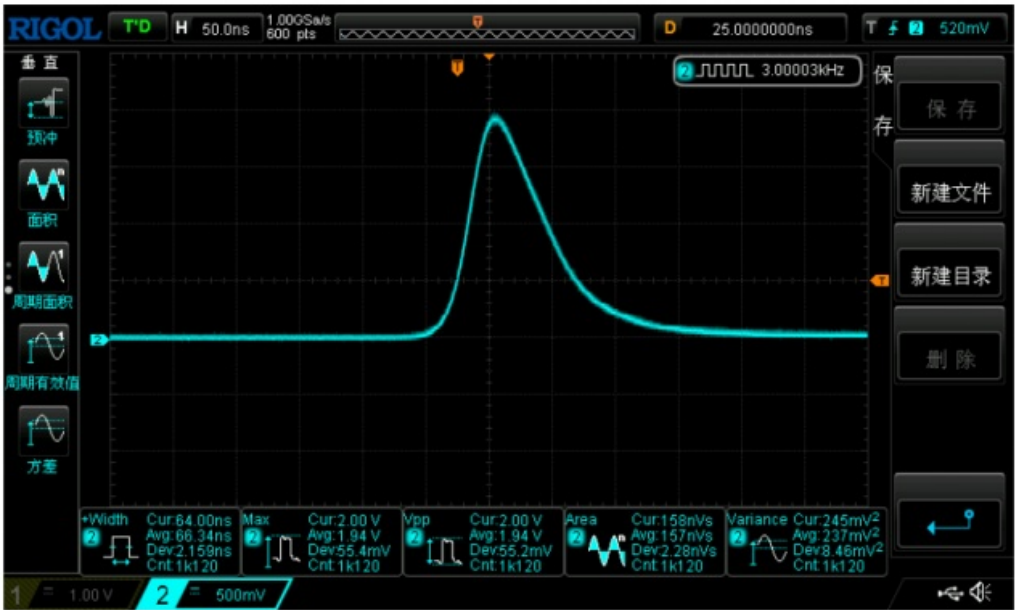
Product Specification

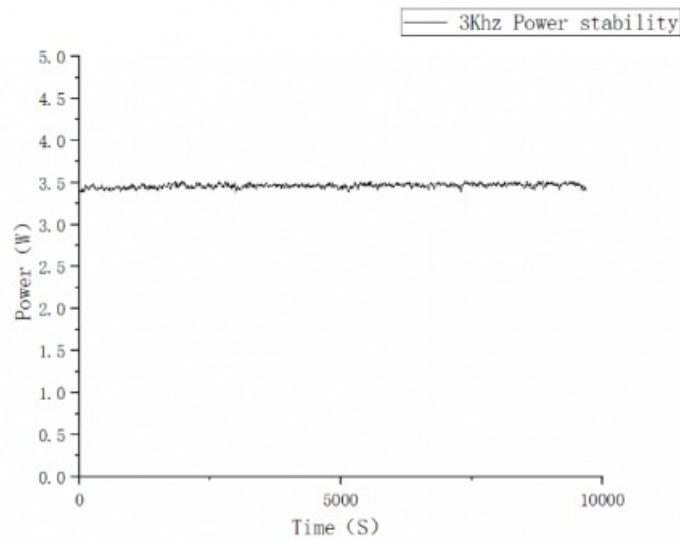
- Wave Length: 532nm
- Repetition Rate: 1kHz ~ 5kHz
- Pulse Width: 50 ± 20 nm
- Power Stability: <1.5%
- Beam Quality: $M2 < 1.5$
- Beam Divergence: 0.2 ± 0.05 (mrad)
- Cooling Method: Water
- Average Power(: 10W , 30W, 70W
- Highlight: **Industrial Nanosecond Pulsed Laser,
Continuous Nanosecond Pulsed Laser,
Long Pulse Nanosecond Pulsed Laser**

Product Description:

The JINSP LS1200 Series embodies a comprehensive range of diode-pumped solid-state lasers, which are categorized within the medium to high power spectrum, specializing in the production of both continuous wave and pulsed laser outputs. These advanced lasers come fully equipped with a sophisticated water cooling system, which ensures optimal performance and longevity by maintaining stable operating temperatures. They utilize a slab architecture, which is a cutting-edge design that enhances efficiency and beam quality. The active medium in these lasers is Neodymium-doped Yttrium Aluminum Garnet, commonly abbreviated as Nd: YAG, which is renowned for its excellent lasing properties.

Thoughtfully designed with versatility in mind, the JINSP LS1200 Series can operate either as a standalone, fully integrated laser system or as a foundational laser seed source that can be subsequently amplified to meet higher power requirements. This dual functionality is a testament to the series' adaptability, making it an exceptionally suitable choice for a vast array of applications that demand dependable and powerful laser performance. Whether it's for industrial cutting and welding, scientific research, medical procedures, or military applications, the JINSP LS1200 Series stands out as a robust and flexible solution that can be tailored to meet specific operational needs. Its ability to serve as both a primary laser source and a foundational seed for further amplification underscores its significance in the field of laser technology, where reliability and performance are paramount.



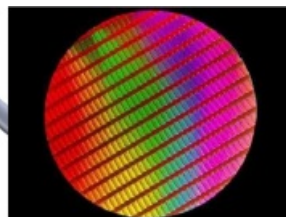
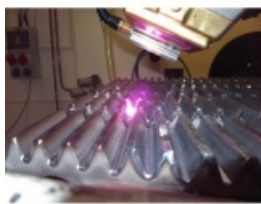


Product Selection Table & Parameters:

Product code	LS1010			LS1020		
Wavelength(nm)	1064					
Repetition Rate(kHz)	1	3	5	1	3	5
Average Power (W)	10	30	37	40	120	150
Peak Power (MW)	0.17	0.14	0.1	0.67	0.57	0.39
Single Pulse Energy(mJ)	10	10	7.4	40	40	30
Pulse Width (ns)	50 ± 20					
Size of Nearfield Beam	~5 (nm)					
Beam Divergence	0.2±0.05(mrad)					
Beam Quality M2	1.5			1.8		
Linewidth	40 (GHz)					
Polarization	Linear					
Warm-up Time	~10 (min)					

Advantages of laser processing:

- Non-contact: No physical contact is required, avoiding scratches or wear on the material.
- High Precision: The concentrated energy is accurately directed to the target area, enabling precise cleaning.
- High Efficiency: Removes contaminants quickly and efficiently, eliminating the need to disassemble machinery, thereby reducing cleaning time and costs.
- Controllability: Laser parameters and energy output can be adjusted, adapting to the cleaning needs of different materials and contaminants.
- Environmentally Friendly: Eliminates the need for chemical solvents or cleaners, reducing pollution.



Applications:

- Scientific Research Field (Scientific Research Institutes and Universities)
- Other Core Components for Instruments (Laser Instrument Manufacturers)
- Industrial Manufacturing Field (Machining, Marking Factories)
- Medical Field (Hospitals, Medical Device Companies)

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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