Advanced Nanosecond Long Pulse Laser for Precise Material Cleaning Applications

Our Product Introduction

Basic Information

- Place of Origin: CHINA
- Brand Name: JINSP
- Certification: CE ISO9001
- Model Number: LS1000 LS1010 LS1020
- Minimum Order Quantity: 1
- Price: Negotiable
- Packaging Details: 1PC/BOX
- Delivery Time: 60-90Working days
- Payment Terms: T/T
- Supply Ability: 20PCS / 60-90Working days

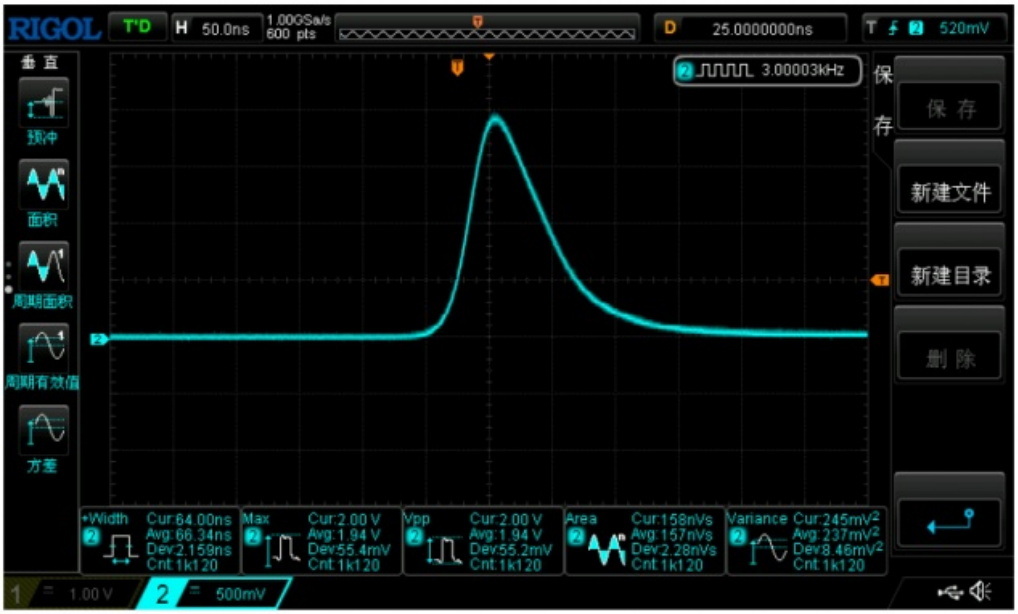
Product Specification

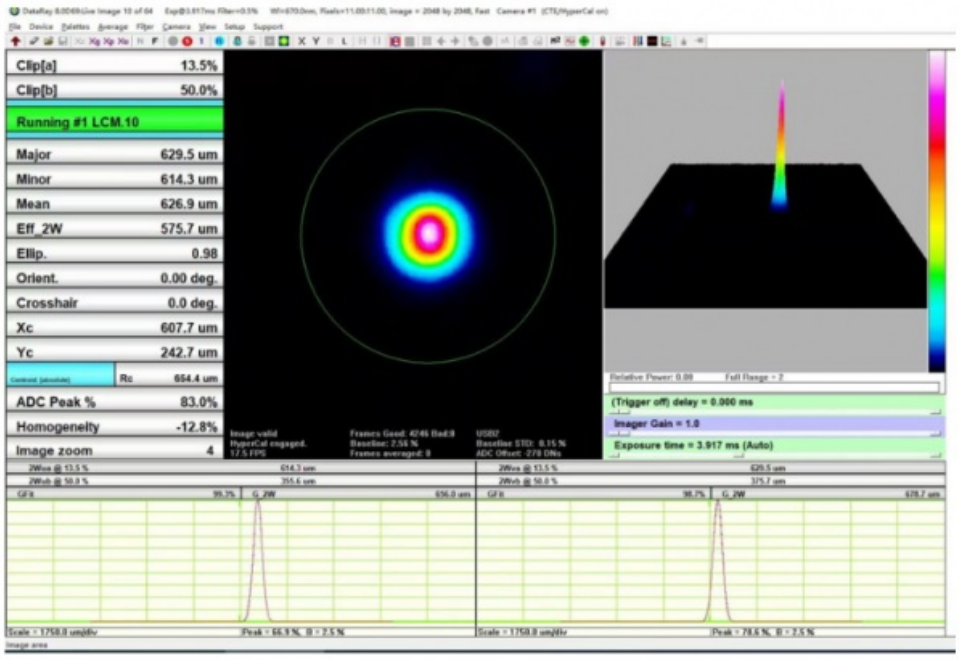
- Wave Length: 1064nm
- Repetition Rate: 1kHz ~ 5kHz
- Pulse Width: 60 ± 20nm
- Power Stability: <1.5%
- Beam Quality: M2<1.3
- Beam Divergence: 0.4±0.05(mrad)
- Cooling Method: Water
- Average Power(: 2.4W ~ 240W
- Highlight: **q switched nanosecond laser 60ns Width**, **5kHz q switched nanosecond laser**, **1kHz long pulsed laser**

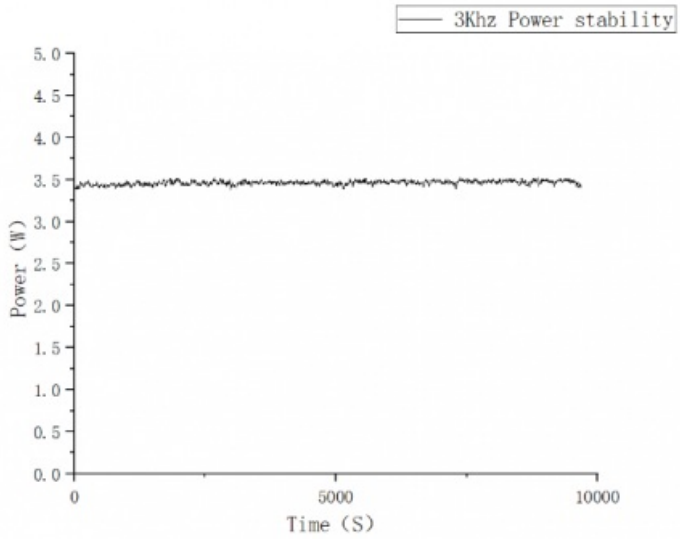
Product Description

Product Description:

The JINSP LS1000 Series represents a collection of diode-pumped solid-state lasers that fall within the mid-to-high power range, characterized by their continuous pulsed operation and water-cooling mechanism. These lasers utilize a slab design and are specifically doped with Neodymium: Yttrium Aluminum Garnet (Nd: YAG) as the active medium. The JINSP LS1000 Series is versatile, offering the capability to function either as an independent, self-contained laser unit or as a foundational laser seed source that can be further amplified. This dual functionality makes the JINSP LS1000 Series suitable for a wide array of applications requiring reliable and powerful laser outputs.





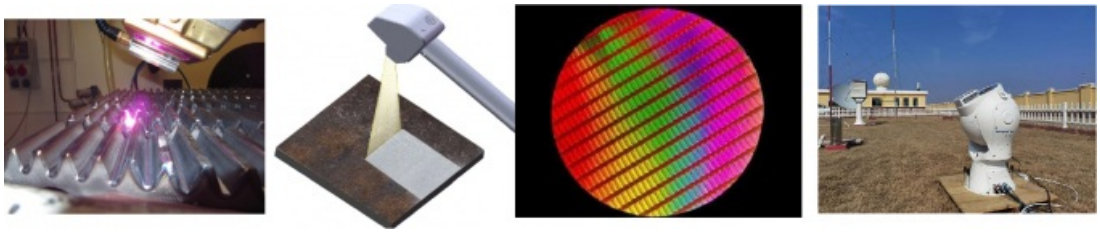


Product Selection Table & Parameters:

Product code	LS1000			LS1010			LS1020		
Wavelength(nm)	1064								
Repetition Rate(kHz)	1	3	5	1	3	5	1	3	5
Average Power (W)	2.4	6.5	8	20	60	75	80	240	300
Peak Power (MW)	0.04	0.03	0.02	0.33	0.29	0.2	1.33	1.14	0.79
Single Pulse Energy(mJ)	2.4	2.2	1.6	20	20	15	80	80	60
Pulse Width (ns)	60 ± 20								
Size of Nearfield Beam	~5 (nm)								
Beam Divergence	0.4±0.05(mrad)								
Beam Quality M2	1.3			1.5			1.8		
Linewidth	40 (GHz)								
Polarization	Linear								
Warm-up Time	~5 (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.

JINSP Company Ltd.

8618620854039 phoebeyu@jinsptech.com spectralanalyser.com

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