JINSP LB1000S 1535nm Handheld LIBS Analyzer For Recycled & Scrap Metal Analysis

Our Product Introduction

Basic Information

- Place of Origin: CHINA
- Brand Name: JINSP
- Certification: CE ISO9001
- Model Number: LB1000S
- Minimum Order Quantity: 1PC
- Price: Negotiable
- Packaging Details: 1PC/BOX
- Delivery Time: 30 working days
- Payment Terms: T/T
- Supply Ability: 20 PCS PER MONTH

Product Specification

- Laser Wavelength: 1535nm
- Laser Safety: Class1
- Continuous Working Time: 8h
- Weight: Approximate Weight With Battery: 1.9kg
- Waterproof Performance: Industrial Dustproof And Waterproof, Suitable For On-site Inspection Environments
- WIFI: 2.4GHz 802.11n/b/a
- Memory: 16Gb
- Working Temperature: -10 ~ +40
- Highlight: **1535nm Handheld LIBS Analyzer**, **Metal Analysis Handheld LIBS Analyzer**, **1535nm handheld elemental analyzer**

More Images

Product Description

LB1000S Handheld LIBS Analyzer For Alloy Element Analysis

The JINSP LB1000S is a fast, accurate, and comprehensive elemental analyzer.

In just 5 seconds, the LB1000S, which utilizes eye-safe lasers, can reveal the precise content of all elements in the metal matrix. No cumbersome pretreatment is required, simply grind the surface of the matrix to expose a testing plane with a diameter of about 5mm, and you can easily start the analysis.

Technical Specifications:

Detection Alloy Matrix	Aluminum based elements: Al,Si,Fe,Cu,Zn,Mg,Mn,Ni,Cr,Ti,Pb,Sn Iron based elements: Fe,Cr,Ni,Mn,si,Ti,Cr,Mo,V,Co Copper based elements: Cu,Zn,Mn,Al,Ni,Pb,Sn,Fe
Spectral range	180nm ~ 460nm
Laser wavelength	1535 nm, much safer for human eyes
Laser safety	Class1, the lowest risk among all the laser classes
Display screen	5.0-inch capacitive touch screen
Memory	16Gb
Working environment	Temperature: -5 to 40 . Humidity: ≤95%RH, no condensation
Sample types	Bulk solids, cylinders, sheets, wires with a diameter of 1mm or larger, thin slices, large blocks, lines, particles
Communication mode	4G,Bluetooth,WIFI
Operating time	8 hours

Technical Highlights:

Safe and worry-free: Using 1535nm CLASS 1 eye-safe lasers completely eliminates the hidden dangers of X-ray ionizing radiation. The externally limited device is carefully designed to effectively prevent laser misfiring, ensuring the safety of every user.

Efficient and prompt: Whether it's thin sheets, large blocks, lines, or particles, we can quickly respond to various shapes of metals. Detection results can be issued within 5 seconds on site, making your workflow smoother and without any waiting.

Intelligent recognition: Automatically identify the type of metal matrix to avoid human error and make the detection results more accurate. Additionally, the device integrates Beidou positioning, 4G/5G, and WIFI networking capabilities, allowing you to upload detection data to the business system in real time regardless of your location.

Accurate and reliable: With full-element detection capabilities, it also demonstrates excellent detection results for light elements such as Al, Mg, and Si. This meets the precise analysis requirements of various industries, providing strong support for your business.

Wide compatibility: Capable of detecting aluminum-based, copper-based, and iron-based matrices, it can perform quantitative analysis of various alloy elements such as Cr, Ni, Ti, V, Mn, Mg, etc. We also provide matrix customization services to meet your specific needs.

Element Detection Range:

1	Aluminum based		
Main Element	LOD (ppm)	LOD %(Min)	LOD %(Max)
Fe	2000	0	1
Si	500	0	8
Zr	2000	0	8
Pb	2000	0	1
Cu	500	0	10
Zn	1000	0	2
Mn	1000	0	0.1
Ni	500	0	0.1
Ti	500	0	0.1
Mg	500	0	18
Sr	500	0	0.1
Sn	1000	0	0.1
Cr	500	0	0.1
Sc	500	0	0.1
Be	20	0	0.01
Ag	500	0	0.5
Al		Balance	Balance

2	Copper based		
Main Element	LOD (ppm)	LOD %(Min)	LOD %(Max)
Al	800	0	8
Si	1500	0	0.5
Pb	500	0	5
Zn	800	0	40
Mn	500	0	13
Ni	2000	0	28
Fe	1000	0	5
Sn	2000	0	0.5
Co	1500	0	2

Nb	300	0	0.5
Cr	800	0	1
Cu		Balance	Balance

3	Iron based		
Main Element	LOD (ppm)	LOD %(Min)	LOD %(Max)
V	1000	0	2
Al	1000	0	1
Si	5000	0	3
Cu	3000	0	3
Co	1500	0	13
Mn	1000	0	22
Ni	5000	0	40
Ti	1000	0	1
Mo	1000	0	6
Cr	5000	0	22
Fe		Balance	Balance

Typical Applications:
Recycled metal recovery
Utilization of recycled metals
Scrap metal and alloys

Application Scenarios

Recycled metal recovery

Mineral exploration

Utilization of recycled metals

Company Introduction:

JINSP Company Limited, abbreviated as "JINSP", is a professional supplier with over 17 years of experience in spectral detection technology products, including Raman, FT-IR, LIBS technologies, etc. After 17 years of technology accumulation, the company's core key technologies have reached the international leading position at the level, and the cumulative number of patent applications exceeded 200.

In addition to its main headquarters located in the bustling city of Beijing, JINSP has established a fully owned subsidiary manufacturing facility situated in the province of Jiangsu, China.

This strategic move allows JINSP to maintain stringent control over its production processes, ensuring that every product bearing the JINSP brand name meets the highest quality standards. The presence of this manufacturing base not only enhances the company's ability to deliver superior products but also underscores its commitment to excellence in manufacturing.

By having this dedicated facility, JINSP can closely monitor and manage every step of the production chain, from raw material selection to final quality checks, thereby guaranteeing that customers receive products of the utmost quality. This vertical integration approach further strengthens JINSP's market position and enables it to respond swiftly to market demands while maintaining consistent product quality.

Company Profile

Certifications

FAQ:

Q: This is the first time I use it, is it easy to operate?
A: 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.

Q: Can you offer an operation training?
A: Your technicians can come to our factory for training. Jinsp engineers can go to your place for local support (installation, training, debugging, maintenance).

Q: How to receive the best price in the shortest time?
A: 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.

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

Q: What about quality assurance?
A: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.

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