

1064nm Desktop Scientific Raman Spectroscopy Machine RS2100LAB

Our Product Introduction

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Basic Information

- Place of Origin: CHINA
- Brand Name: JINSP
- Certification: CE ISO9001
- Model Number: RS2100LAB
- Minimum Order Quantity: 1
- Price: Negotiable
- Packaging Details: Customized Packaging
- Delivery Time: 60-80working days
- Payment Terms: TT
- Supply Ability: 20 PCS/60-80 days



Product Specification

- Laser Wavelength: 1064nm
- Wavelength Accuracy: 0.2nm
- Wavelength Stability: 0.01nm
- Connectivity Interface: USB 2.0
- Output Data Format: Spc Standard Spectrum, Prn, Txt And Other Formats Are Optional
- Communication Protocols: Modbus
- Power Supply: 100 ~ 240 VAC 50 ~ 60 Hz
- Operating Temperature: 0 ~ 40
- Power Consumption: 50W
- Detection Accuracy: 0.5%
- Highlight: Scientific raman spectroscopy machine,
1064nm raman spectroscopy machine

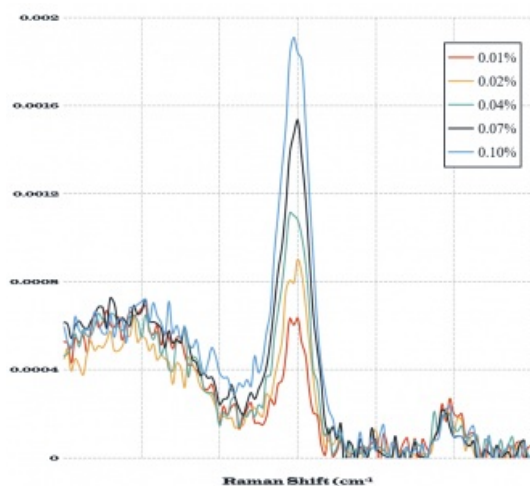


RS2100LAB 1064nm Cost Effective Desktop Laboratory Scientific Raman Analyzer



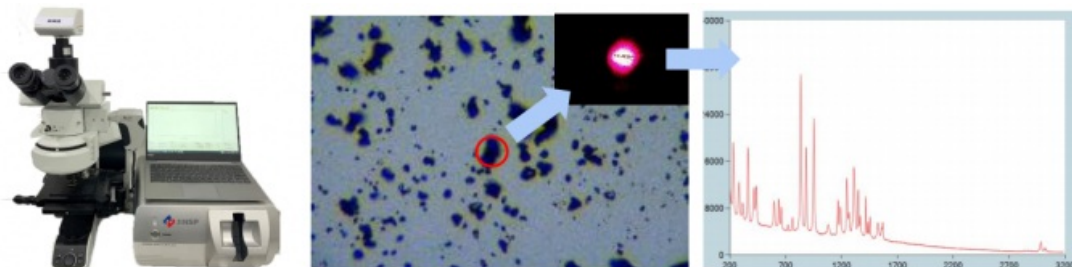
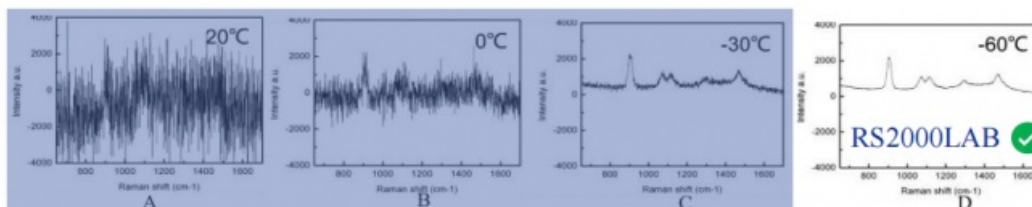
Product Description:

The JINSP® RS2000LAB portable Raman spectrometer stands as a cutting-edge instrument designed for the rapid and non-destructive analysis of chemicals. This high-performance device excels in both qualitative and quantitative assessments, boasting exceptional sensitivity, a high signal-to-noise ratio (SNR), and an extensive spectral range. The RS2000LAB is versatile, allowing users to select from various excitation wavelengths to suit their specific detection requirements. It comes equipped with a diverse array of testing accessories and sample holders, making it an ideal choice for a wide range of applications. These applications span across multiple disciplines, including but not limited to drug substance research, biomedicine, chemical analysis, and material research. The RS2000LAB's adaptability and precision make it an indispensable tool for scientists and researchers seeking to conduct thorough and accurate analyses in their respective fields.



Technical Highlights:

- High light efficiency: Transmission spectrometer
- High sensitivity: Deeply cooled detector with high sensitivity, high SNR, etc.
- Flexible application: It can be adjusted with a microscope to realize the micro-Raman function.
- Powerful software functions: Data acquisition, data smoothing, noise reduction, difference spectrum, comparison, establishment of quantitative analysis methods, etc.
- Multi-function detection accessories: With solid sleeve, liquid sleeve, closed detection chamber, etc., it can be applied to the detection tasks of samples in such forms as solid, powder, liquid, etc.



Technical Parameters:

Technical Parameter	Value
Product	Portable/Desktop Raman Analyzer
Measurement Type	Raman Spectrometer
Laser wavelength	1064nm
Wavelength accuracy	0.2 nm
Wavelength stability	0.01 nm
Resolution	$<9 \text{ cm}^{-1}$
Laser power	0~1200 mW, continuously adjustable power
Sample Type	Liquid & solid
Standard accessories	Solid sleeve, liquid sleeve, light-proof sample cell
Optional accessories	Microscope, mechanically adjustable stage
Software functionality	Spectral acquisition, spectral data processing, spectrogram comparison, equipment calibration
Net Weight	$\leq 10 \text{ kg}$

Working environment	Working temperature: 0~40 . Storage temperature: -20~55
Data output format	Spc standard spectra, txt, prn and other formats available
Power supply	100-240 VAC, 50-60HZ
Certifications	CE ISO9001

Applications:

Research on silicone reaction kinetics

Quantitative determination of base-catalyzed hydrolysis kinetics of methyltrimethoxysilane by in-situ Raman spectroscopy - ScienceDirect

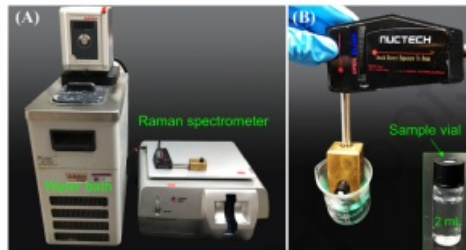
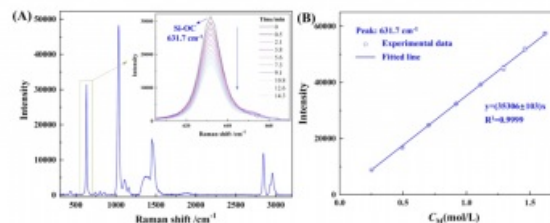


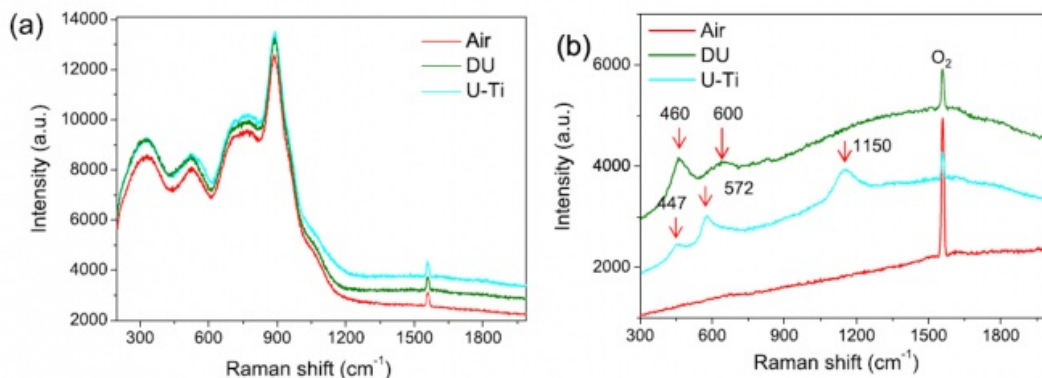
Fig. 1. Photograph of the in-situ Raman monitoring system.



Raman spectra and quantitative models of different MTMS contents in methanol solution

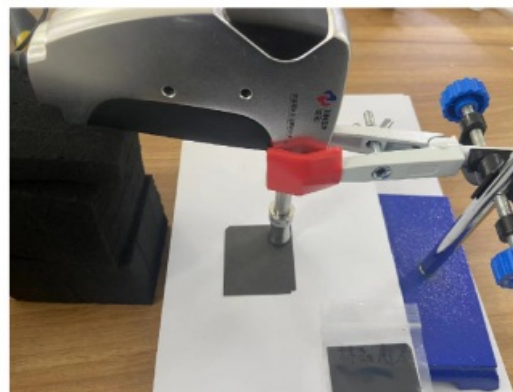
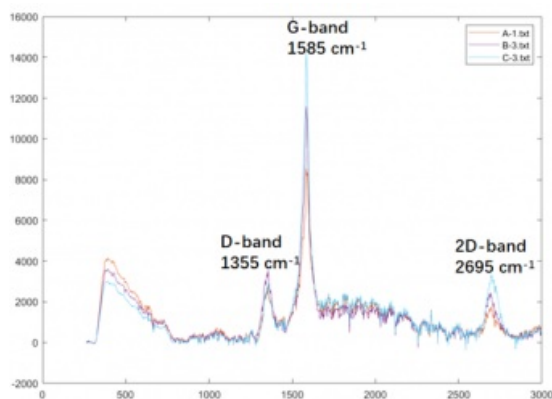
Surface analysis of uranium materials

The spectral background problem of portable fiber Raman instruments and a solution for the on-site detection of extremely weak signals | Review of Scientific Instruments | AIP Publishing



Structural Characterization of Carbon Materials

Graphene, carbon nanotubes, and carbon composite materials are hot research topics in the field of physics, chemistry, and advanced materials.



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 maybe, 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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