

RS2100LABPro 1064nm Laser Raman Spectroscopy Detector High Sensitivity

Our Product Introduction

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Basic Information

- Place of Origin: CHINA
- Brand Name: JINSP
- Certification: CE ISO9001
- Model Number: RS2100LABPro
- 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: 0.01%
- Highlight: **1064nm Laser raman spectroscopy detector,**



Product Description

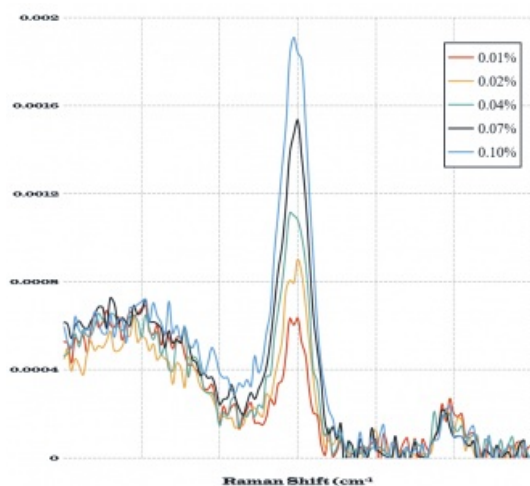
RS2100LABPro 1064nm Laser High Sensitivity Portable Laboratory Raman Analytical Instrument



Product Description:

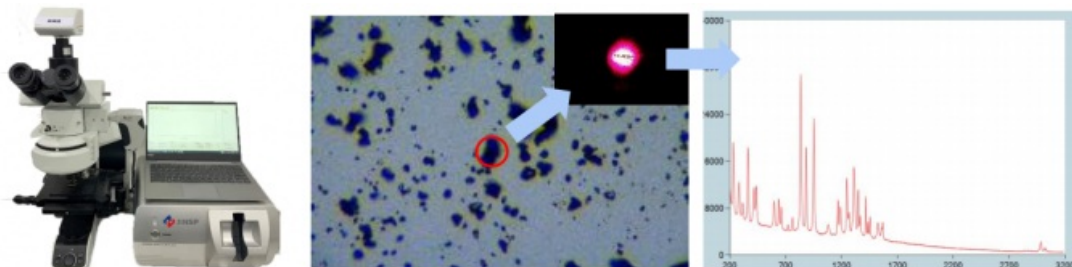
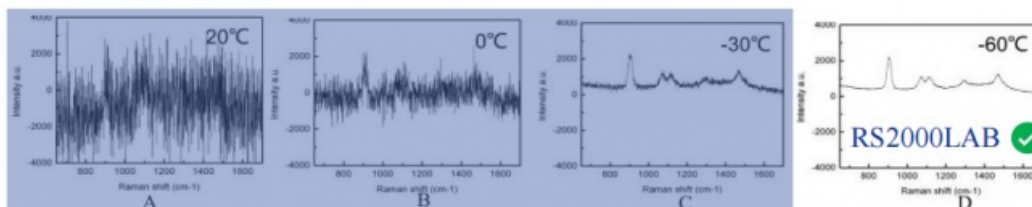
The RS2100LABPro portable Raman spectrometers are high-performance research-grade Raman spectrometers. They have excellent characteristics such as high sensitivity, high signal-to-noise ratio, and a wide spectral range.

These instruments can be configured with different excitation wavelengths based on detection requirements. They are well-suited to meet the needs of research institutions, pharmaceutical companies, regulatory agencies, and others in research areas such as biopharmaceuticals, polymer materials, food safety, forensic identification, environmental pollution detection, and more.



Technical Advantages:

- 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

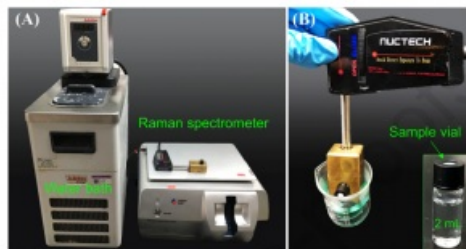
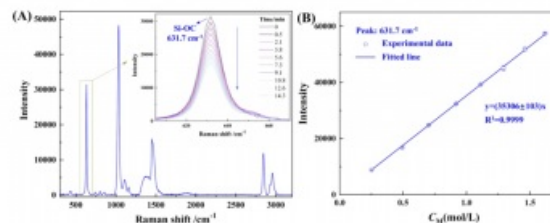


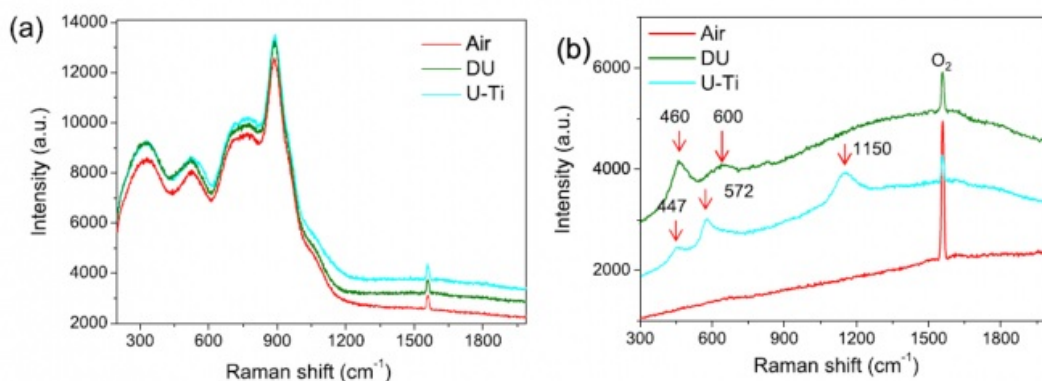
Fig. 1. Photograph of the in-situ Raman monitoring system.



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

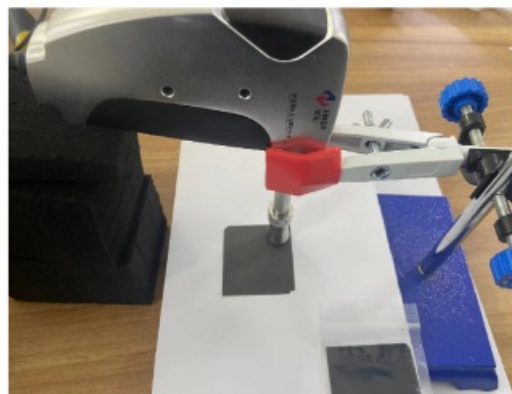
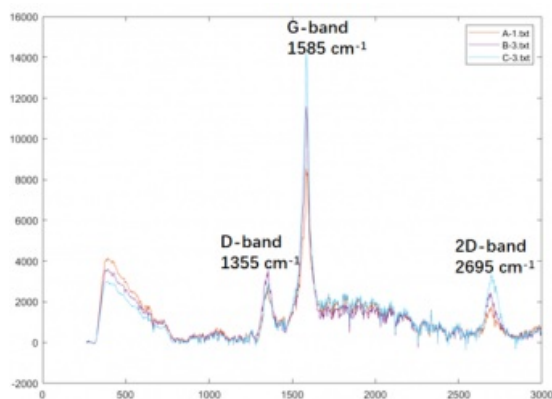
Surface analysis of uranium materials

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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