

## High Performance 785nm Raman Spectroscopy Instrument Raman Analytical Instruments

Our Product Introduction

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### Basic Information

- Place of Origin: CHINA
- Brand Name: JINSP
- Certification: CE ISO9001
- Model Number: RS2000LAB
- 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: 785nm
- 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: **785nm Raman Spectroscopy Instrument, High Performance Raman Spectroscopy**



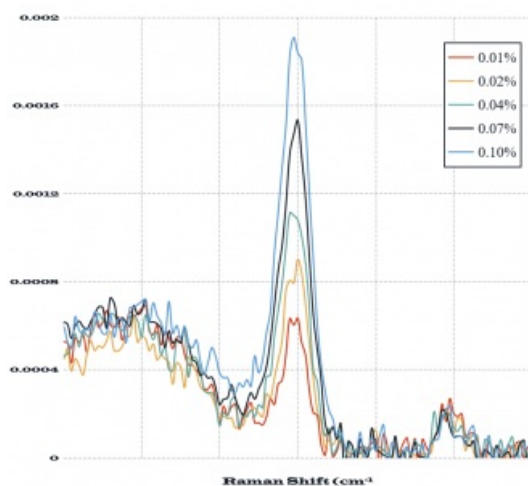
## Product Description

High Cost Performance RS2000LAB 785nm Portable/Desktop Laboratory Raman Spectroscopy Analytical Instrument



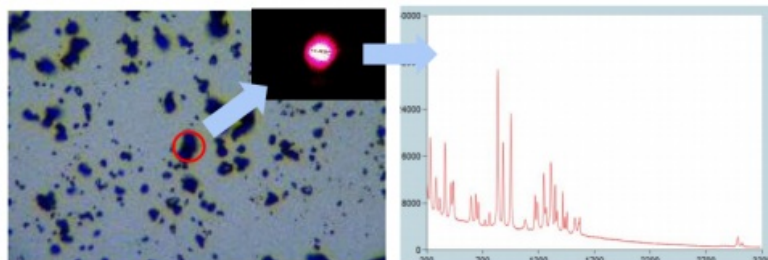
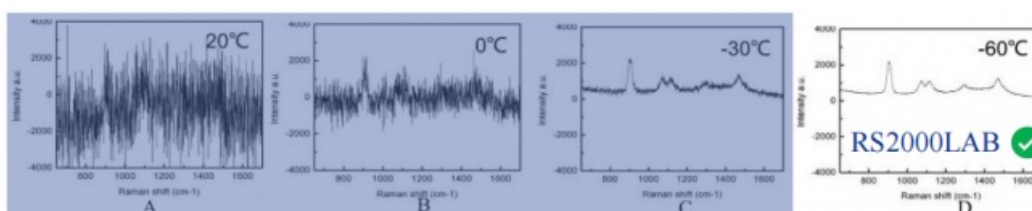
### Product Description:

JINSP® RS2000LAB portable Raman spectrometer is a high-performance detection device, which supports qualitative and quantitative analysis of chemicals quickly and in a non-destructive manner, with high sensitivity, high SNR, and wide spectral range. RS2000LAB can be configured with different excitation wavelengths based on the specific detection tasks. It is equipped with different kinds of test accessories and sample holders to satisfy detection tasks in such fields as drug substance research, biomedicine, chemical analysis, material research, etc.



### Technical Highlights:

- **Excellent Performance:** Research-grade spectral performance with advantages such as high resolution, high sensitivity, and high signal-to-noise ratio.
- **Non-destructive Testing:** Capable of directly detecting through transparent or semi-transparent packaging, such as glass, plastic bags, etc.
- **Powerful Software:** Compatible with various operating systems, capable of data collection, analysis, comparison, and other tasks.
- **Easy Operation:** Intuitive software interface for user-friendly operation.
- **Multifunctional testing Accessories:** Equipped with fiber optic probes, Raman microscopes, and standardized sealed detection chambers, suitable for solid, powder, and liquid detection.
- **Robust Environmental Suitability:** Well-suited for on-vehicle settings, fulfilling criteria for impact resistance in high and low temperatures, vibration, and drop tests.



### Technical Parameters:

| Technical Parameter  | Value  |
|----------------------|--|
| Product              | Portable/Desktop Raman Analyzer                      |
| Measurement Type     | Raman Spectrometer                                   |
| Laser wavelength     | 785nm  |
| Wavelength accuracy  | 0.2 nm   |
| Wavelength stability | 0.01 nm  |
| Resolution           | <6 cm <sup>-1</sup>                                  |
| Laser power          | 0~500 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             | ≤10 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

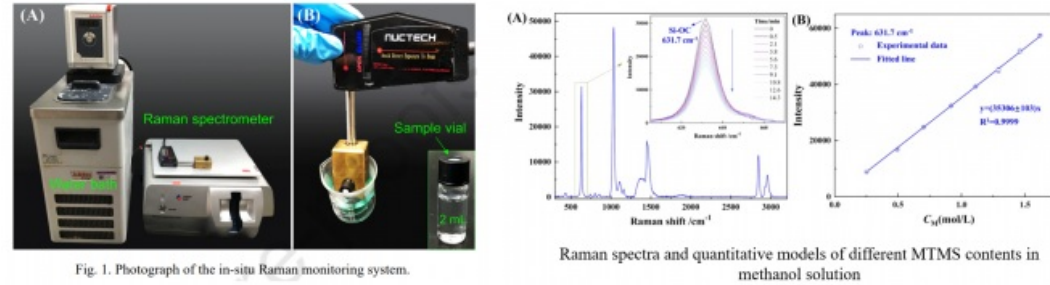
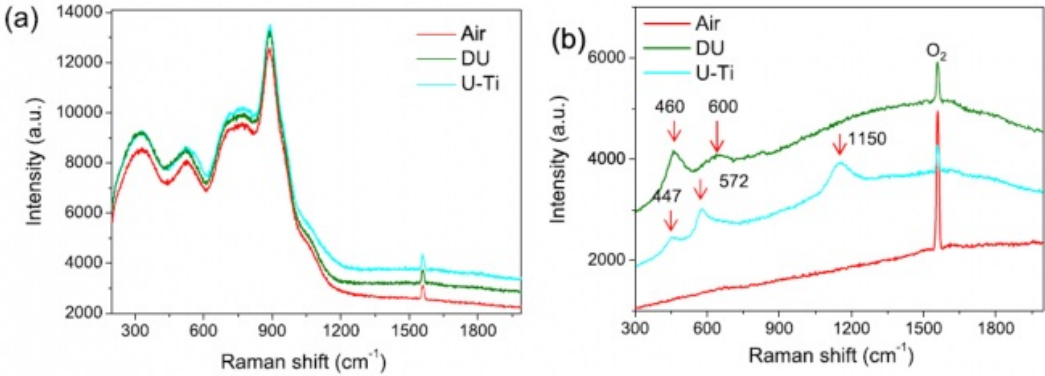


Fig. 1. Photograph of the in-situ Raman monitoring system.

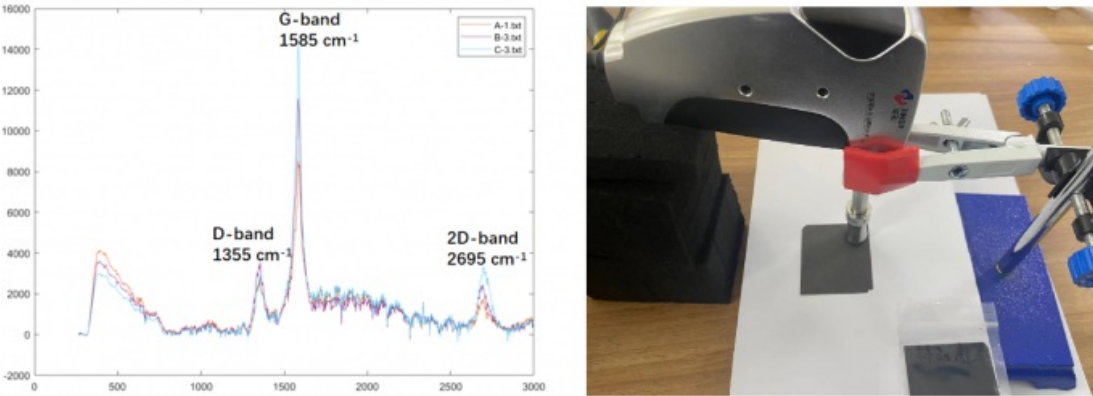
#### Surface analysis of uranium materials

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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