

## High Accuracy Mini Raman Spectrometer Integrated Temperature Sensor And Compensation

Our Product Introduction

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### Basic Information

- Place of Origin: CHINA
- Brand Name: JINSP
- Certification: CE
- Model Number: SR75C
- Minimum Order Quantity: 1
- Price: Negotiable
- Packaging Details: Customized Packaging
- Delivery Time: 30-50working days
- Payment Terms: T/T, Western Union
- Supply Ability: 100 PCS/70-90 days



### Product Specification

- Dimensions: 110mm\*95mm\*40.5mm
- Wide Spectral Range: Supports Customized Spectrum Range Of 200-1000nm
- Low Temperature Drift: Integrated Temperature Sensor And Temperature Drift Compensation Algorithm
- Chip Type: Linear Array CMOS, Hamamatsu S11639
- High Signal-to-Noise Ratio: Low-noise CMOS Signal Processing Circuit, With Excellent Signal-to-noise Ratio
- Sensing Area: 28.7mm \*0.2mm
- Highlight: **High Accuracy Mini Raman Spectrometer, High Accuracy compact raman spectrometer, Integrated Temperature Sensor Mini Raman Spectrometer**

## Product Description

### Raman Mini Spectrometer Integrated Temperature Sensor and Compensation

#### Product Description:

The Universal Compact Fiber Spectrometer is equipped with a linear array CMOS chip type, specifically the Hamamatsu S11639. This chip type is known for its high sensitivity and low noise, making it perfect for demanding spectroscopy applications. The spectrometer also features an integrated temperature sensor and temperature drift compensation algorithm, ensuring accurate measurements even in temperature-sensitive environments.

The Universal Compact Fiber Spectrometer is designed with an M-shape C-T optical design, allowing for high-resolution analysis with minimal stray light. This design is optimized for use with optical fibers, making it highly versatile and adaptable to a wide range of spectroscopy applications.



#### Features:

Product Name: Universal Compact Fiber Spectrometer

Sensing Area: 28.7mm \*0.2mm

Flexible Application: Supports output of spectrum data via USB and serial port, to integrate the applications

Effective Pixel: 2048

Dimensions: 110mm\*95mm\*40.5mm

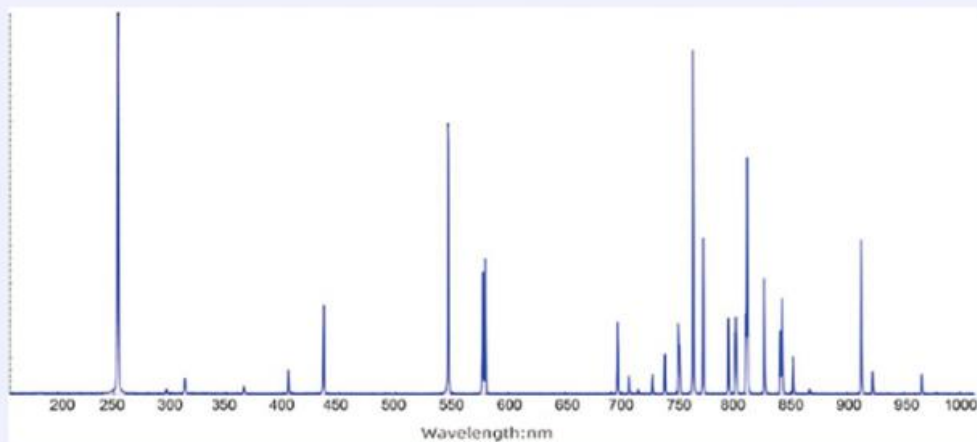
Keywords: Mini spectrometer, Raman spectrometer, fiber spectrometer

## Technical Characteristics



## Wide Spectral Range

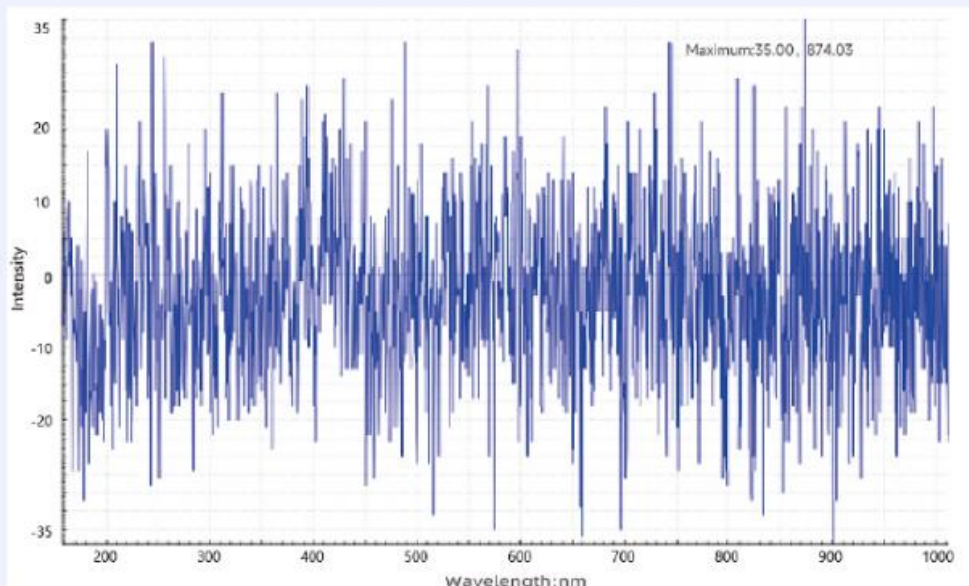
Supports customized spectrum range of 200-1000nm



Test results and applications in the range of 200~1000nm

## High Signal-to-Noise Ratio

Low-noise CMOS signal processing circuit, with excellent signal-to-noise ratio

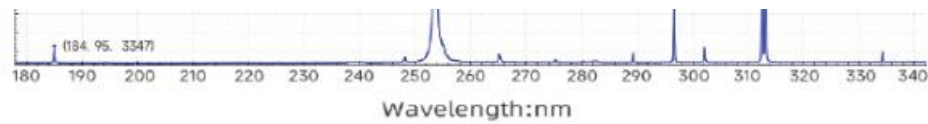


Low Noise: Dark noise standard deviation is approximately 20 for 10ms

## High Resolution

M-shape C-T optical design

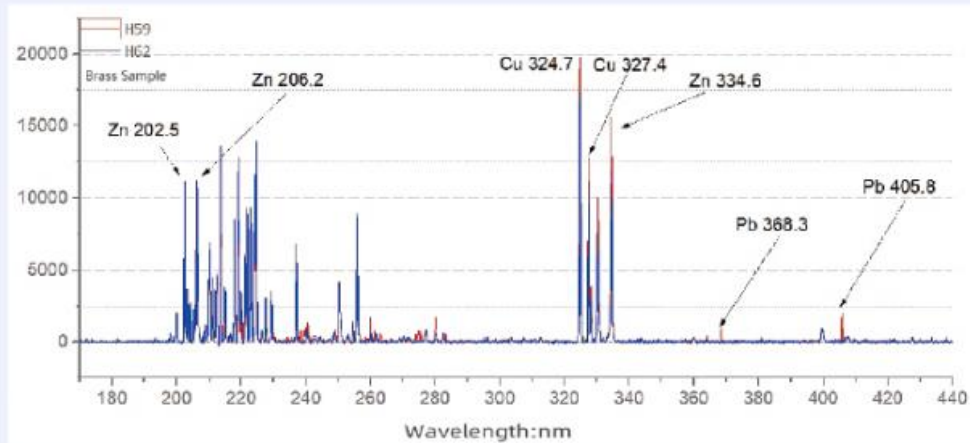




Mercury-Argon Lamp Spectrum (UV 180340nm, Resolution 0.15nm)

## Flexible Application

Supports output of spectrum data via USB and serial port, to integrate the applications



LIBS Mineral User Test Results

### Technical Parameters:

Product Attribute	Technical Parameters
Product Name	Universal Compact Fiber Spectrometer
Application	Flexible application with USB and serial port output of spectrum data to integrate with various applications
Spectral Range	Supports customized spectrum range of 200-1000nm
Dimensions	110mm*95mm*40.5mm
Numerical Aperture	0.085
Chip Type	Linear array CMOS, Hamamatsu S11639
Sensing Area	28.7mm *0.2mm
Signal-to-Noise Ratio	Low-noise CMOS signal processing circuit, with excellent signal-to-noise ratio

### Applications:

The JINSP SR75C is equipped with a low-noise CMOS signal processing circuit, which results in excellent signal-to-noise ratio. The M-shape C-T optical design allows for high resolution, making it ideal for use in a variety of industries. The entrance slit width is customizable, with options including 10μm, 25μm, 50μm, 100μm, and 200μm. Its compact dimensions of 110mm\*95mm\*40.5mm and weight of 310g make it easy to transport and use.

The JINSP SR75C fiber spectrometer is perfect for a wide range of applications and scenarios. It is ideal for use in Raman mini spectrometer systems, as well as for fluorescence and absorbance measurements. It can be used in laboratory research, medical diagnosis, environmental protection, and food safety detection. Its high signal-to-noise ratio and high-resolution capabilities make it an excellent choice for precision measurements.

If you're looking for a reliable and versatile spectrometer, the JINSP SR75C is an excellent choice. With its customizable entrance slit width and compact design, it can be used in a variety of applications and scenarios. Contact us today to learn more about this high-quality fiber spectrometer.

# Typical Applications

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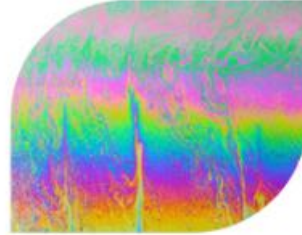


Flue Gas: Monitoring and identification of components in flue gas emissions.

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Detection of absorbance, transmittance, and reflectance in ultraviolet, visible, and near-infrared spectra

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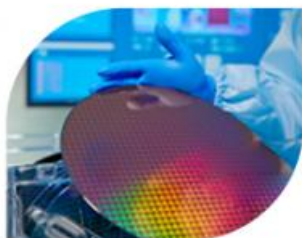


LIBS: Used for analyzing soil and minerals in geological detection and mining-related work.

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Water Quality and Environmental Protection: Online monitoring of organic substances and dissolved oxygen levels in environmental water.

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Light source and laser wavelength identification

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## Support and Services:

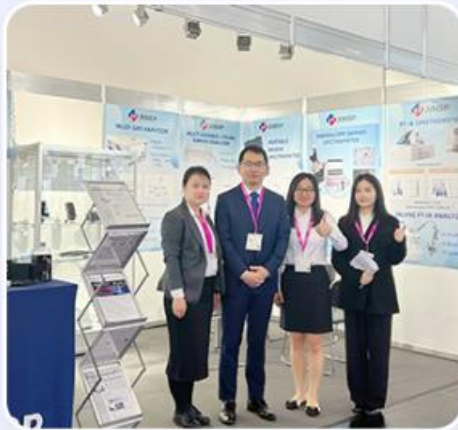
The Universal Compact Fiber Spectrometer is supported by a team of highly skilled technical support professionals who are committed to providing exceptional service. Our product technical support and services include: - Expert consultation services to help you get the most out of your spectrometer - Comprehensive training programs to help you and your team gain a deeper understanding of the product and its applications - On-site installation and commissioning services to ensure the smooth operation of your spectrometer - Calibration and repair services to help maintain the performance of your spectrometer over time.



# Company Profile



# Exhibition



## Packing and Shipping:

### Product Packaging:

The Universal Compact Fiber Spectrometer will be carefully packaged to ensure safe delivery. The device will be placed in a sturdy cardboard box, wrapped with protective materials, and labeled with the necessary shipping information.

## FAQ:

**Q1: What is the brand name of the Universal Compact Fiber Spectrometer?**

A1: The brand name of the Universal Compact Fiber Spectrometer is JINSP.

**Q2: What is the model number of the Universal Compact Fiber Spectrometer?**

A2: The model number of the Universal Compact Fiber Spectrometer is SR75C.

**Q3: Does the Universal Compact Fiber Spectrometer come with any certification?**

A3: Yes, the Universal Compact Fiber Spectrometer is CE certified.

**Q4: What is the minimum order quantity for the Universal Compact Fiber Spectrometer?**

A4: The minimum order quantity for the Universal Compact Fiber Spectrometer is 1.

**Q5: What are the payment terms for purchasing the Universal Compact Fiber Spectrometer?**

A5: The payment terms for purchasing the Universal Compact Fiber Spectrometer are T/T and Western Union. The price is negotiable, and the supply ability is 100 PCS/70-90 days. The delivery time is 30-50 working days, and the packaging details can be customized according to your needs.



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