Optical Interface FC/PC Or SMA905 Miniature Fiber Optic Spectrometer With 200nm ~ 1000nm Wide Spectrum Range

Our Product Introduction

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: 30-50 working days
- Payment Terms: T/T, Western Union
- Supply Ability: 100 PCS/70-90 days

Product Specification

- Wavelength Range: 200nm-1100nm
- Detector Type: Linear Array CMOS, Hamamatsu S11639
- Optical Design: Type M C-T Light Path
- Grating Slits: 10μm, 25μm, 50μm, 100μm, 200μm (customizable)
- Weight: 310g
- Dimension: 110mm*95mm*43mm
- Interface: USB 2.0
- Optical Interface: FC/PC Or SMA905
- Highlight: **Wide Spectrum Range Fiber Optic Spectrometer , 200nm ~ 1000nm Fiber Optic Spectrometer, SMA905 Miniature Fiber Optic Spectrometer**

More Images

Product Description

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Product Overview

The JINSP SR75C high-resolution fiber optic spectrometer is a cost-effective and versatile spectrometer. It utilizes a high quantum efficiency CMOS chip with 2048 pixels, supporting both reflectance and transmittance absorption spectra in the range of 200 to 1000nm.

By employing an f/75 mm reflector and an M-shaped C-T optical design, the optical aberrations of the system are effectively optimized, resulting in best optical resolution effect up to 0.15nm.

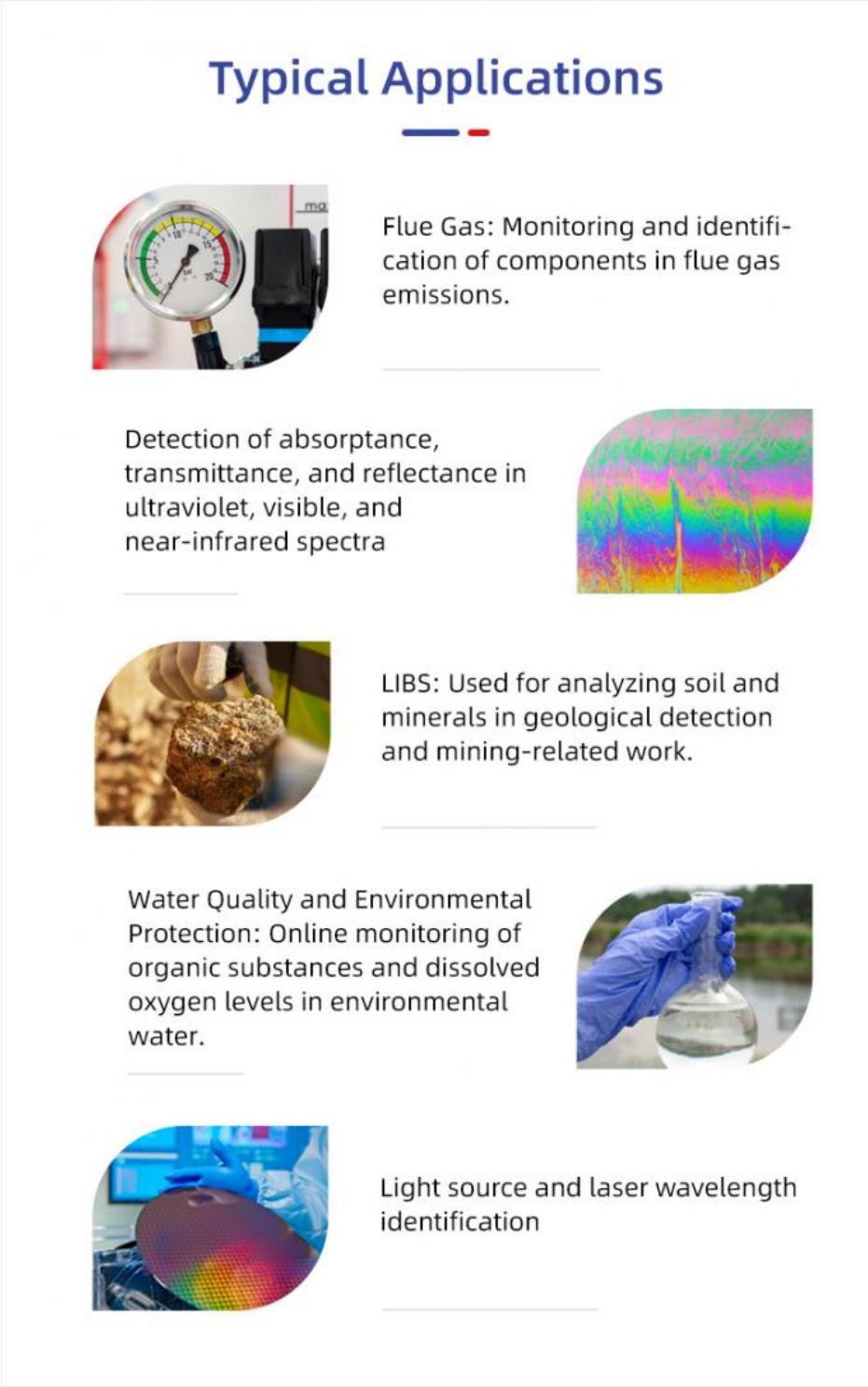
It can also monitor the ambient temperature in real time and realize the minimum temperature drift within the operational temperature range based on the internal compensation algorithm for temperature drift.

No	Item	Description
1	Chip Type	Linear array CMOS, Hamamatsu S11639
2	Effective Pixel	2048
3	Sensing Area	28.7mm *0.2mm
4	Optical Design	M Type C-T light path
5	Numerical Aperture	0.085
6	Entrance Slit Width	10μm, 25μm, 50μm, 100μm, 200μm (customizable)
7	Dimensions	110mm*95mm*40.5mm
8	Weight	310g

Typical Applications

- **LIBS (Laser-Induced Breakdown Spectroscopy):** Used in geological detection and mining for analyzing chemical composition of soil and minerals through high-energy laser pulses and spectral analysis.
- **Water Quality and Environmental Protection:** Essential for online detection and continuous monitoring of organic substances and dissolved oxygen levels in water bodies for environmental assessment.

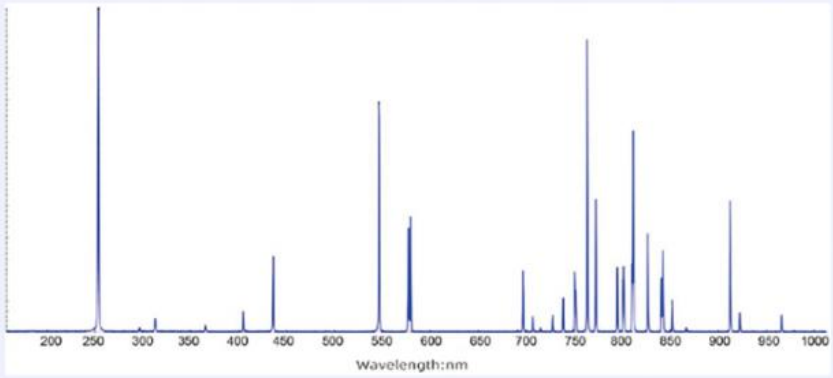
- **Flue Gas:** Critical for monitoring and identifying components in industrial emissions to ensure environmental compliance and safety.



Technical Characteristics

- **Wide Spectral Range:** Supports customized spectrum range of 200-1000nm
- **High Signal-to-Noise Ratio:** Low-noise CMOS signal processing circuit with excellent signal-to-noise ratio
- **High Resolution:** M-shape C-T optical design

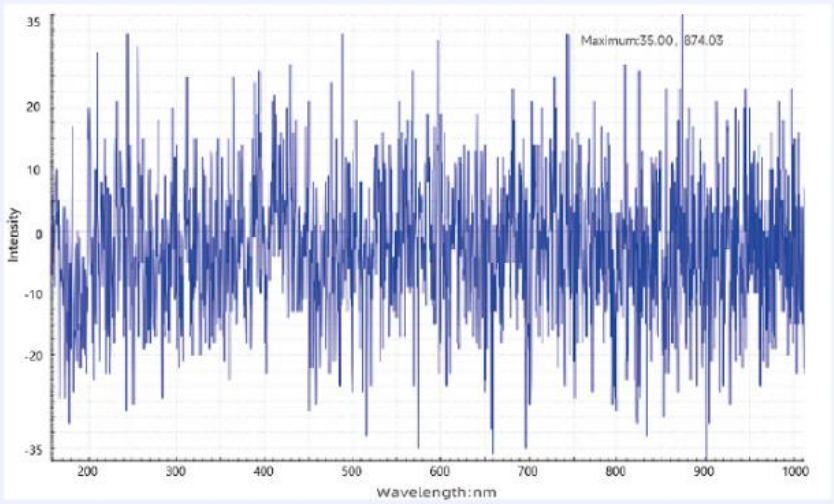
Supports customized spectrum range of 200-1000nm



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

High Signal-to-Noise Ratio

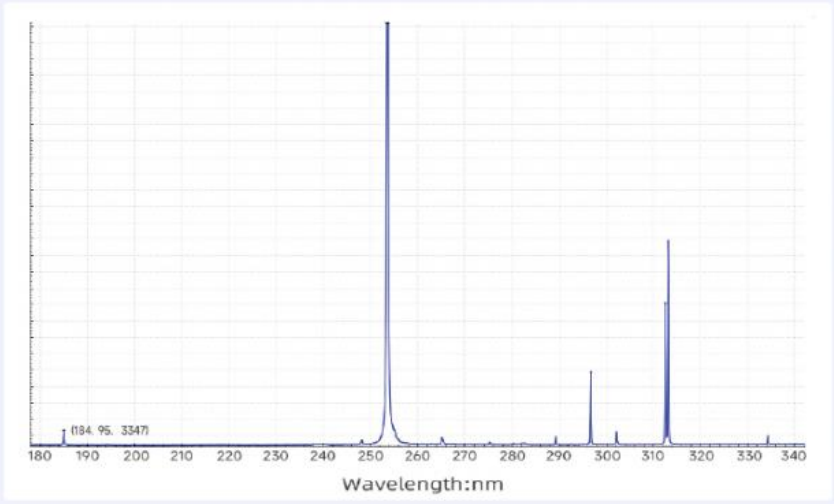
Low-noise CMOS signal processing circuit, with excellent signal-to-noise ratio



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

High Resolution

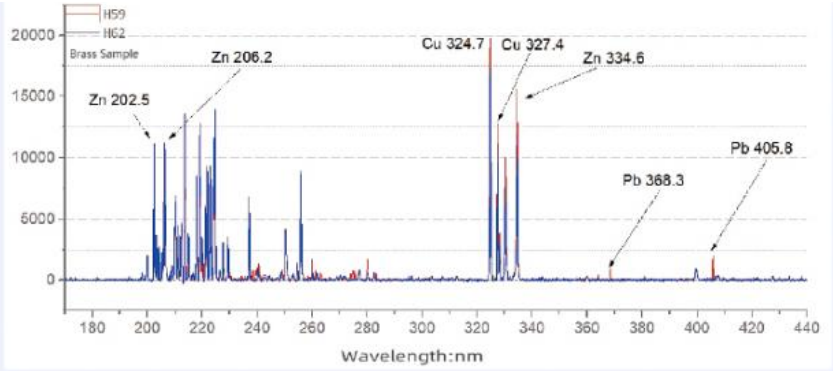
M-shape C-T optical design



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

Certifications & Awards

JINSP Company Limited has won the National Science and Technology Commission's Scientific and Technological Achievement Appraisal Certificate and the China Patent Excellence Award. Related products have received authoritative awards including the Geneva International Invention Award, the Beijing New Technology and New Product Certificate, and the "Innovation Achievement Award" of the Zhu Liangyi Analytical Instrument Innovation Award.
Complies with GB/T 40219-2021 "General Specification for Raman Spectrometer".

Frequently Asked Questions

Q1: Is the price of this product negotiable?

A1: Yes, the price of this product is negotiable.

Q2: What are the payment terms for this product?

A2: The payment terms for this product are T/T and Western Union.

Q3: What is the supply ability for this product?

A3: The supply ability for this product is 100 PCS/70-90 days.

Q4: How long does it take to deliver this product?

A4: The delivery time for this product is 30-50 working days.

Q5: How is this product packaged?

A5: This product is packaged according to customized packaging.

JINSP Company Ltd.

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