

High-Performance Universal Compact Fiber Spectrometer for High Sensitivity Measurements

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

- Wavelength Range: 200-1100nm
- 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
- Highlight: optical fiber spectrometer, Universal Compact Fiber Spectrometer, high-sensitivity Fiber Spectrometer



More Images



Product Description

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Product Overview

This OEM miniature fiber spectrometer features a high-sensitivity linear array sensor with broad spectral coverage from 200-1000nm, including ultraviolet and near-infrared regions. Its compact design (110mm*95mm*43mm) houses advanced optical technology while maintaining portability.

High-resolution Fiber Optic Spectrometer

High resolution Low noise

SR75C



Detailed Specifications

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

Technical Features

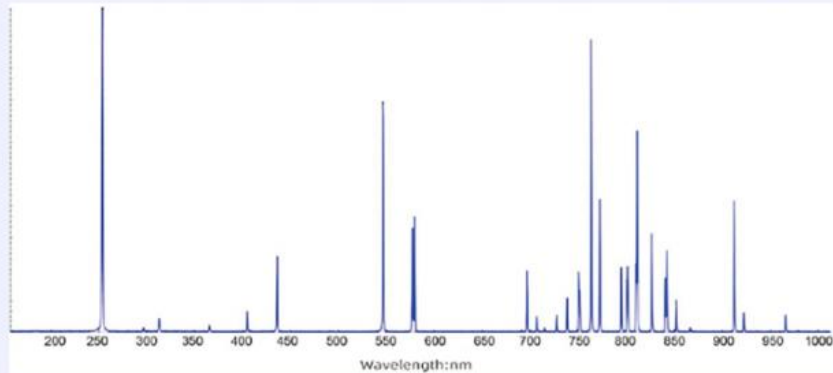
- **Wide Spectral Range:** Customizable spectrum range of 200-1000nm
- **High Signal-to-Noise Ratio:** Low-noise CMOS signal processing circuit
- **High Resolution:** M-shape C-T optical design

Technical Characteristics



Wide Spectral Range

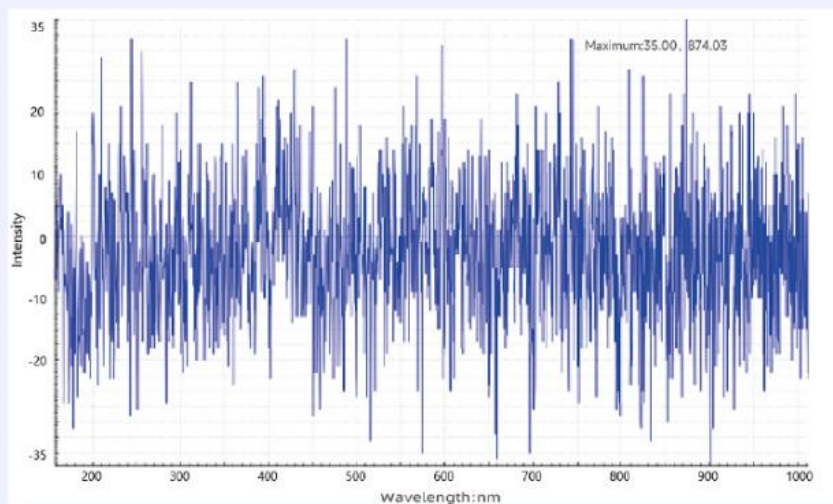
Supports customized spectrum range of 200-1000nm



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

High Signal-to-Noise Ratio

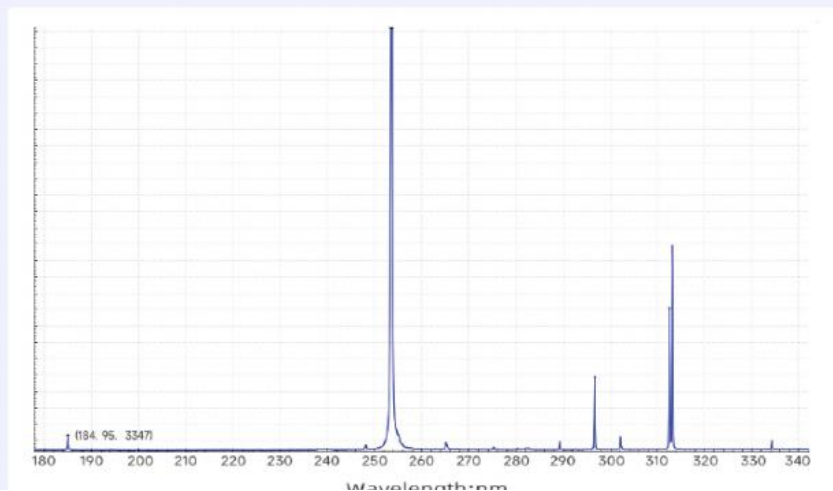
Low-noise CMOS signal processing circuit, with excellent signal-to-noise ratio



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

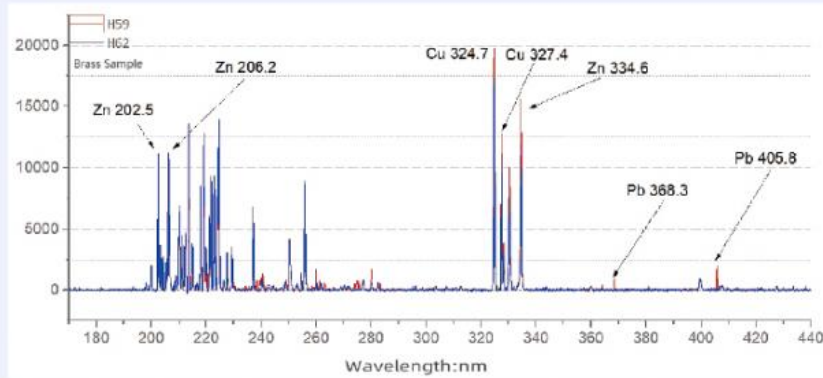
High Resolution

M-shape C-T optical design



Flexible Application

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



LIBS Mineral User Test Results

Industrial Applications

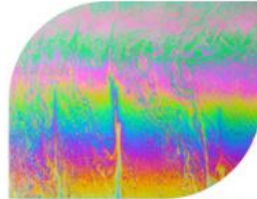
- LIBS: Soil and mineral analysis for geological detection and mining
- Water Quality Monitoring: Detection of organic substances and dissolved oxygen levels
- Flue Gas Analysis: Component monitoring in emissions

Typical Applications



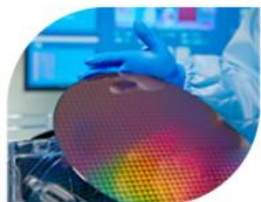
Flue Gas: Monitoring and identification of components in flue gas emissions.

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



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

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



Light source and laser wavelength identification

Company Certifications

JINSP Company Limited has received numerous prestigious awards including:

- National Science and Technology Commission's Scientific Achievement Certificate
- China Patent Excellence Award
- Geneva International Invention Award
- Beijing New Technology and New Product Certificate
- Zhu Liangyi Analytical Instrument Innovation Award

Complies with GB/T 40219-2021 "General Specification for Raman Spectrometer".

Company Profile



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.



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