Multipurpose Compact SR75C Fiber Optic Spectrometer 110mm*95mm*43mm

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

Product Specification

- Detector Type: Linear Array CMOS, Hamamatsu S11639
- Pixel Size: 14μm *200μm
- Optical Design: Type M C-T Light Path
- Grating Slits: 10μm, 25μm, 50μm, 100μm, 200μm (customizable)
- Fiber Input Interface: SMA-905, Free Space
- Dimension: 110mm*95mm*43mm
- Highlight: **SR75C Fiber Optic Spectrometer**, **Multipurpose Fiber Optic Spectrometer**, **Multipurpose optical fiber spectrometer**

More Images

Product Description

Multi-purpose Compact SR75C Fiber Optic Modular Spectrometer

The SR75C Universal Compact Fiber Spectrometer is an optic spectrometer that is designed to deliver accurate and reliable results. It is ideal for use in research laboratories, manufacturing facilities, and other applications where precise spectral analysis is required. With this fiber spectrometer, you can easily measure the wavelength and intensity of light, and use this information to determine the properties of a sample.
Are you looking for a high resolution modular spectrometer for your LIBS system?

Product Parameters:

Detector	Chip Type	Linear array CMOS, Hamamatsu S11639
	Effective Pixel	2048
	Pixel Size	14μm *200μm
	Sensing Area	28.7mm *0.2mm
Optical Parameters	Optical Design	M Type C-T light path
	Numerical Aperture	0.085
	Entrance Slit Width	10μm, 25μm, 50μm, 100μm, 200μm (customizable)
	Spectrum Range and Resolution	See model table for details
	Fiber Input Interface	SMA905, free space
Electrical Parameters	Integration Time	1ms-60s
	Signal-to-Noise Ratio	650:1 (4ms)
	Data Output Interface	USB 2.0 or serial port
	ADC Bit Depth	16-bit
	Power Supply	DC 4.5V to 5.5V (type @5V)
	Operating Current	< 500mA
Others	Operating Temperature	10°C ~ 40°C
	Storage Temperature	-20°C ~ 60°C
	Operating Humidity	90%RH (no condensation)
	Dimensions	110mm*95mm*40.5mm
	Weight	310g

List of Product Models:

Model	Spectral Range (nm)	Resolution (nm)	Slit (μm)
SR75C-G02	510~1000 (VIS-NIR)	0.8	25
		0.5	10
SR75C-G04 SR75C-G06	200~450(UV) 330~570(VIS)	0.3-0.5	25
SR75C-G07 SR75C-G08	550~750(VIS) 750-900(NR)	0.2-0.3	10
SR75C-G09	180~340(UV)	0.3	25
SR75C-G10	500~600(VIS)	0.15~0.2	10

*** Customization available for other ranges**

Typical Applications:

High Signal-to-Noise Ratio: Low-noise CMOS signal processing circuit, with excellent signal-to-noise ratio
Sensing Area: 28.7mm * 0.2mm
Detection of absorptance,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

Technical Characteristic:

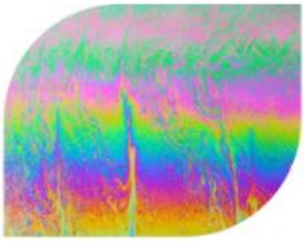
Wide Spectral Range Supports customized spectrum range of 200-1000nm
High Signal-to-Noise Ratio Low-noise CMOS signal processing circuit, with excellent signal-to-noise ratio

High Resolution M-shape C-T optical design

Typical Applications

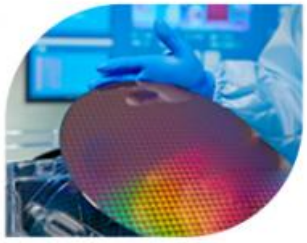
Flue Gas: Monitoring and identification of components in flue gas emissions.

Detection of absorptance, 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.

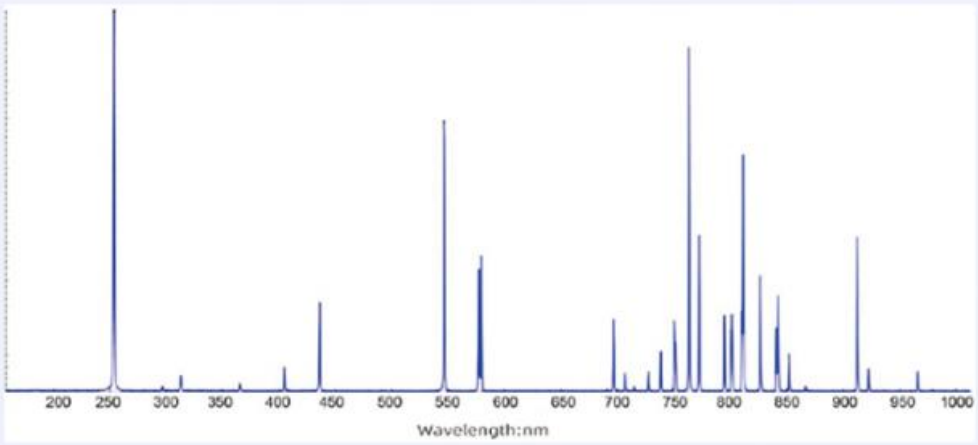


Light source and laser wavelength identification

Technical Characteristics

Wide Spectral Range

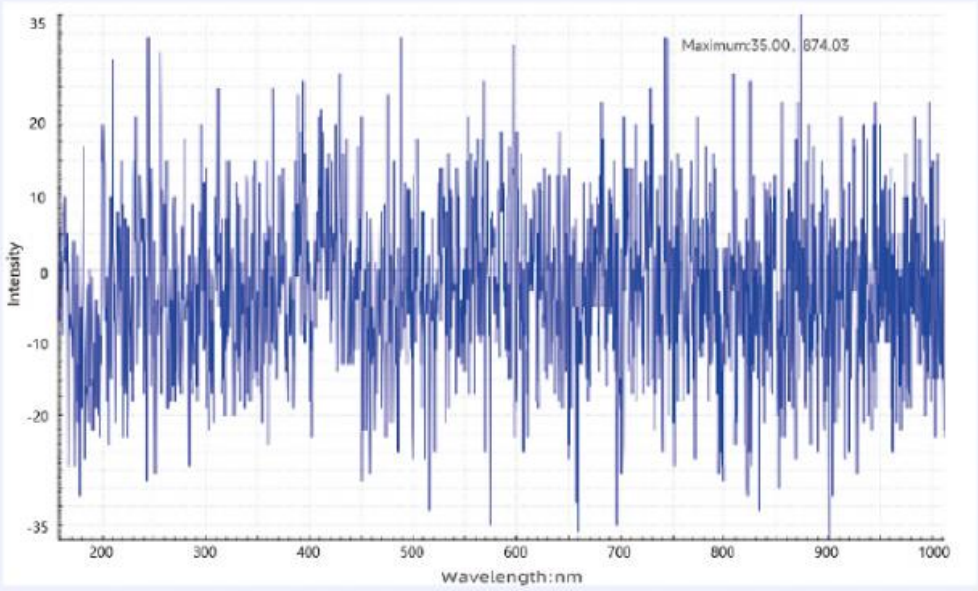
Supports customized spectrum range of 200-1000nm



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

High Signal-to-Noise Ratio

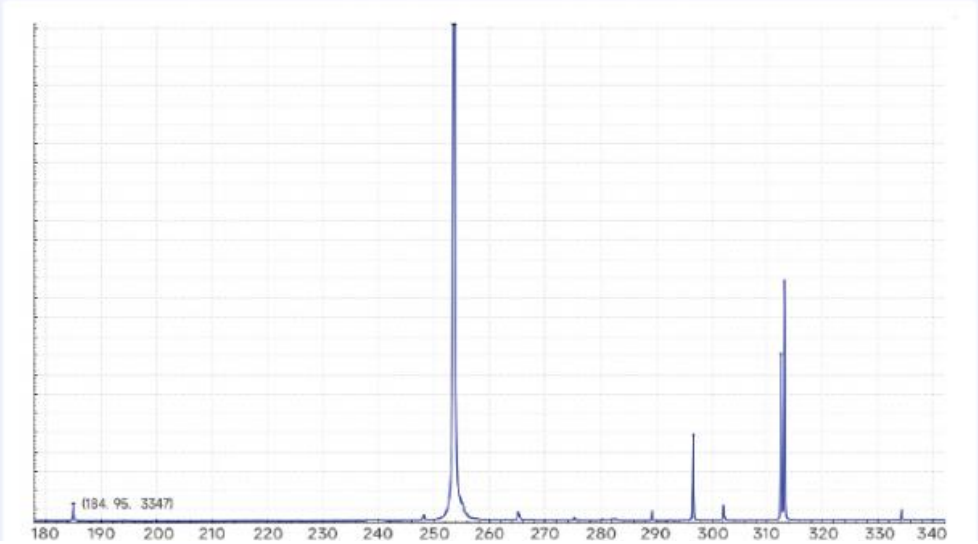
Low-noise CMOS signal processing circuit, with excellent signal-to-noise ratio



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

High Resolution

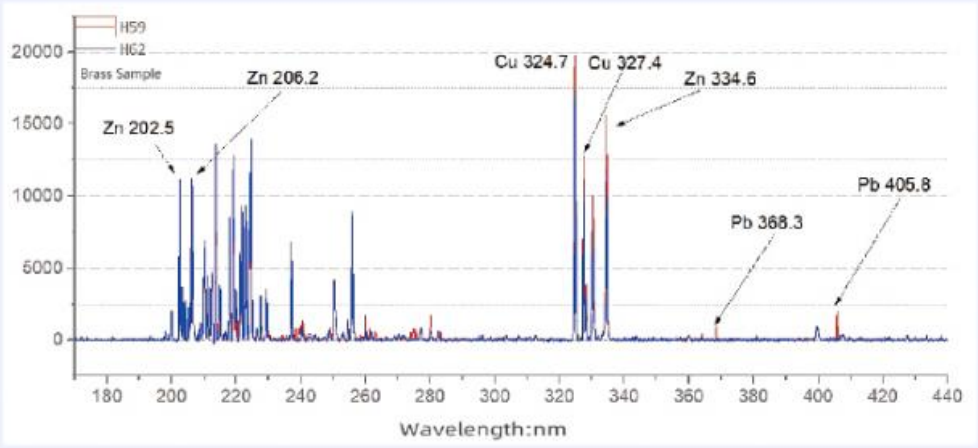
M-shape C-T optical design



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

Company Introduction:

JINSP Company Limited has won the National Science and Technology Commission's Scientific and Technological Achievement Appraisal Certificate and the China Patent Excellence Award, and related products have been obtained has won authoritative awards such as 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.GB/T 40219-2021 "General Specification for Raman Spectrometer".

FAQ:

Q1: What is the brand name of the compact fiber spectrometer?
A1: The brand name of the compact fiber spectrometer is JINSP.
Q2: What is the model number of the compact fiber spectrometer?
A2: The model number of the compact fiber spectrometer is SR75C.
Q3: What certifications does the compact fiber spectrometer have?
A3: The compact fiber spectrometer has CE certification.
Q4: Where is the compact fiber spectrometer manufactured?
A4: The compact fiber spectrometer is manufactured in China.
Q5: What is the minimum order quantity for the compact fiber spectrometer?
A5: The minimum order quantity for the compact fiber spectrometer is 1. However, the price is negotiable for larger orders.
Q6: What are the payment terms for purchasing the compact fiber spectrometer?
A6: The payment terms for purchasing the compact fiber spectrometer are T/T and Western Union.

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