

Optical Fiber Spectrometer High Resolution Spectrum Analysis Mini Spectrometer SMA-905

Our Product Introduction

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Basic Information

- Place of Origin: CHINA
- Brand Name: JINSP
- Certification: CE
- Model Number: SR50C
- 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

- Spectral Resolution: 0.1-10 Nm
- Pixel Size: 14μm *200μm
- Fiber Input Interface: SMA-905, Free Space
- Model: SR50C Fiber Spectrometer
- Wavelength Range: 200nm ~ 1100nm, Support Customizing
- Fiber Connector: FC/PC
- Data Output Interface: USB 2.0 Or Serial Port
- Operating Humidity: 90%RH (no Condensation)
- Highlight: **Mini Spectrometer Fiber Spectrometer,
Optical Fiber Spectrometer,
High Resolution Fiber Spectrometer**

SR50C Fiber Optic Spectrometer

JINSP compact and high-performing JINSP SR50C Miniature Fiber Optic Spectrometer is perfect for achieving reflection, transmission, and absorption spectra in the 200–1100nm range. It enables high-resolution spectral detection in the UV, Visible, and near-Infrared spectrum by varying the grating line density, which can be further improved with interchangeable grating slits. Equipped with a fast, low-noise signal acquisition and processing circuit, the spectrometer ensures obtaining spectra with the highest signal-to-noise ratio (SNR). Its excellent optical design and blazed diffraction grating ensure a high luminous flux and enhance sensitivity to weak signals.

No	Item	Description
1	Name	SR50C Fiber Optic Spectrometer
2	Chip Type	Linear array CMOS, Hamamatsu S11639
3	Effective Pixel	2048
4	Sensing Area	28.7mm *0.2mm
5	Optical Design	M Type C-T light path
6	Numerical Aperture	0.14
7	Entrance Slit Width	10μm, 25μm, 50μm, 100μm, 200μm (customizable)
8	Dimensions	76mm*65mm*36mm
9	Weight	220g

Typical Applications

- Supports detection of absorption,transmittance and reflectivity ofultraviolet, visible and near infrared radiations
- Light source and laser wavelength identification
- Environmental protection industry (smoke and water quality monitoring)
- LIBS
- Fluorescence spectrum
- Raman spectrum

Technical Characteristics

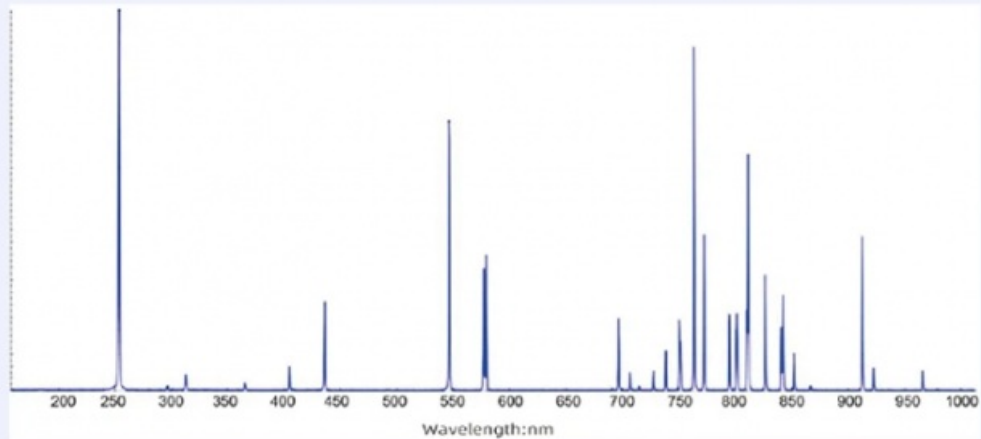
- Wide Spectral Range Supports customized spectrum range of 200-1000nm
- High Signal-to-Noise Ratio Low-noise CMOS signal processing circuit, with excellent signal-to-noise ratio
- High Luminous Flux Integrated with cylindrical mirror to improve the luminous flux
- Low Temperature Drift Integrated Temperature Sensor and Temperature Drift Compensation Algorithm
- Small Volume, Lightweight and Excellent Performance

Technical Characteristics



Wide Spectral Range

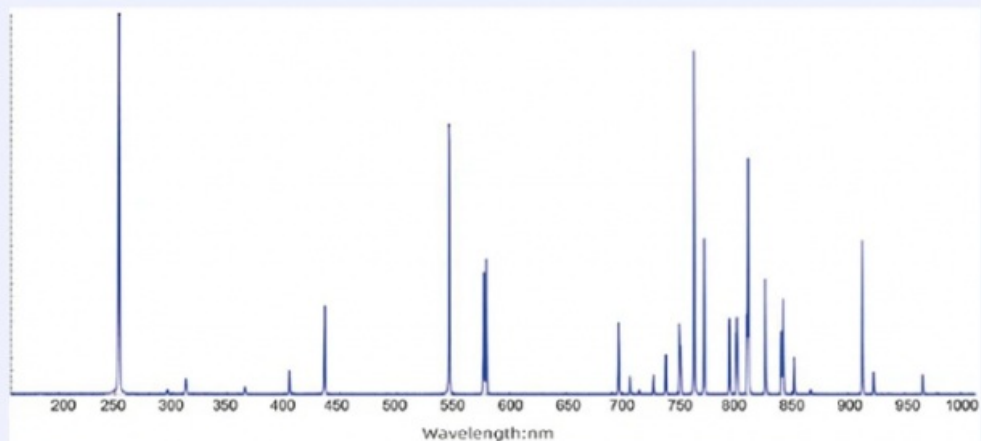
Customized spectral range supporting 200-1100nm



Test results and applications in the range of 200~1000nm—Mercury-Argon Lamp Spectrum

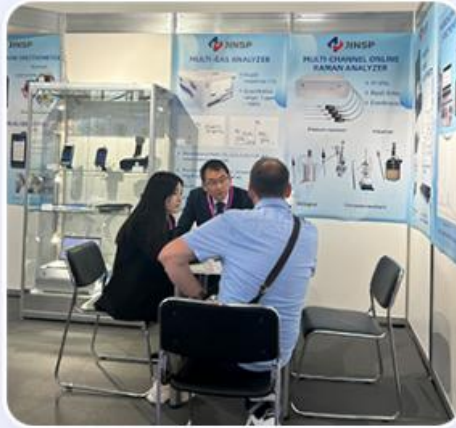
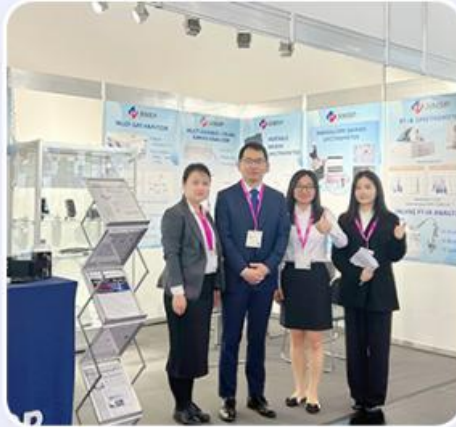
High Signal-to-Noise Ratio

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



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

Exhibition



Certifications



FAQ

Q1:How to receive a best price in the shortest time?

A1:When you send us an inquiry,please kindly offer details with wavelength,detector,effective pixels,focal length and so on.We will send you quotation with details soon to your email.

Q2:If the spectrometer has problem in my place,how could I do?,

A2:The spectrometer has one year warranty.If it breaks down,our technician will figure out what the problem maybe,according to client's feedback.We can repair for free within one year warranty.

Q3:What about quality assurance?

A3:We have a quality inspection team. All goods will go through quality inspection before shipment. We can send you pictures for inspection.

Q4:Can you offer a operation training?

4:Your technicians can come to our factory for a training. Jinsp engineers can go to your place for local support (installation , training, debugging, maintenance).

Q5:Can you offer OEM service?

A5:We can produce scales with your logo, brand, packing. MOQ is 200pcs/model.



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