



**JINSP Company Ltd.**  
spectralanalyser.com

## Lightweight Universal Compact Fiber Optic Spectrometer High Performance

Our Product Introduction

for more products please visit us on [spectralanalyser.com](http://spectralanalyser.com)

### 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

- Dimensions: 79mm\*68mm\*42mm
- High Resolution: M-shape C-T Optical Design
- Wide Spectral Range: Supports Customized Spectrum Range Of 200-1000nm
- Weight: 220g
- Fiber Input: FC/PC Or SMA905
- Power Consumption: 12 VDC, 1.5 A
- Spectral Range: 200~1000 UV-NIR
- Detector Type: Back-Illuminated CCD
- Highlight: **Lightweight Fiber Optic Spectrometer ,  
Fiber Optic Spectrometer High Performance ,  
Lightweight optical 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.

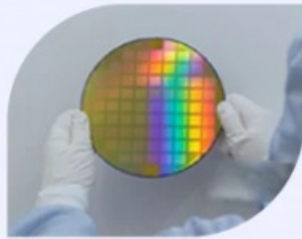


No	Item	Description
1	Name	SR50C Fiber Optic Spectrometer
2	Chip Type	Linear array CMOS, Hamamatsu S11639
3	Effective Pixel	2048
4	Sensing Area	28.7mm *0.2mm
5	Optical Design	M Type C-T light path
6	Numerical Aperture	0.14
7	Entrance Slit Width	10μm, 25μm, 50μm, 100μm, 200μm (customizable)
8	Dimensions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

## Typical Applications

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

## Typical Applications



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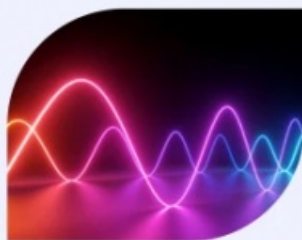
Light source and laser  
wavelength identification



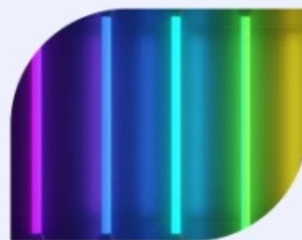
Environmental protection  
industry (smoke and water  
quality monitoring)



LIBS



Fluorescence spectrum



Raman spectrum

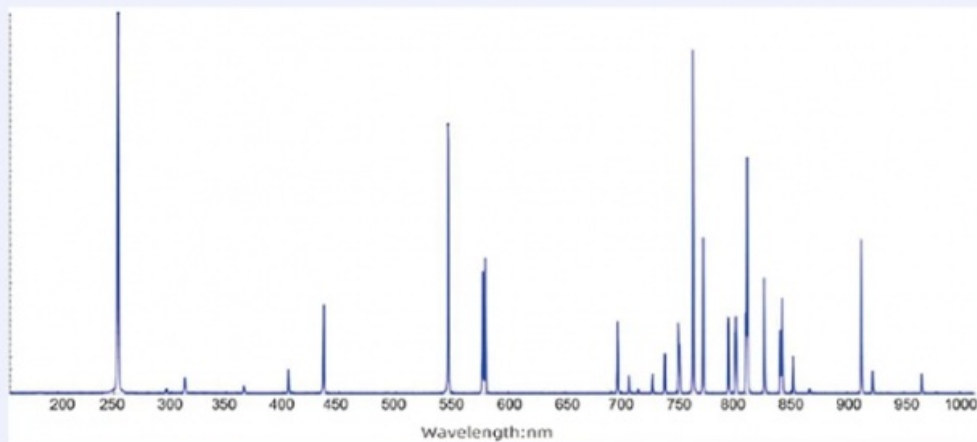
## Technical Characteristics

- 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

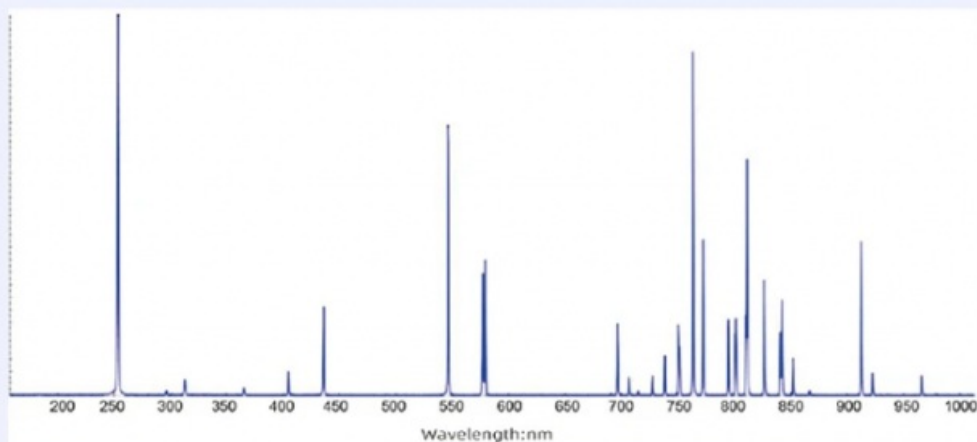
Customized spectral range supporting 200-1100nm



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

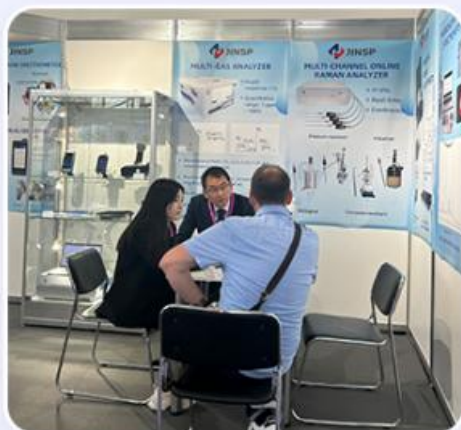
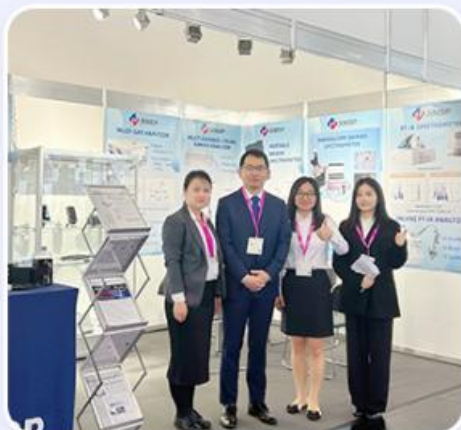
JINSP Company Limited has won the National Science and Technology Commission's Scientific and Technological Achievement Appraisal Certificate and the China Patent Excellence Award, and related products have been obtained has won authoritative awards such as the Geneva International Invention Award, the Beijing New Technology and New

# Company Profile





# Exhibition



## 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?

A4: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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