

## High Throughput Miniature Fiber Optic Spectrometer Module SR50C with Spectral Range 200-1100 nm 76mm\*65mm\*38mm

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

- Dimensions: 76mm\*65mm\*38mm
- High Resolution: M-shape C-T Optical Design
- Detector Type: Back-Illuminated CCD
- Spectral Range: 200-1100 Nm
- Fiber Connector: FC/PC
- Integration Time: 1 Ms - 60 S
- Highlight: **Miniature Fiber Optic Spectrometer Module, High Throughput Fiber Optic Spectrometer Module**



### More Images



## Product Description

### High Throughput Miniature Fiber Optic Spectrometer Module SR50C

The 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.

The spectrometer features an internal integrated temperature sensor capable of real-time monitoring of ambient temperature. Combined with an internal temperature drift compensation algorithm, it can achieve the minimum temperature drift within the working temperature range.

## Miniature Fiber Optic Spectrometer

Compact High Throughput Low Noise

# SR50C





Technical Parameters:

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	79mm*68mm*42mm
9	Weight	220g

Features:

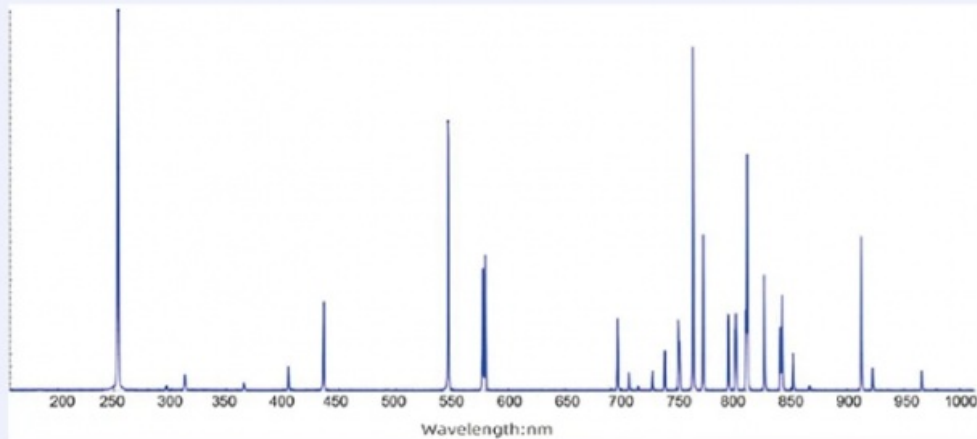
- Wide Spectral Range
- Customized spectral range supporting 200-1100nm
- High Signal-to-Noise Ratio
  - Low-noise CMOS signal processing circuit, with excellent signal-to-noise ratio
- High Luminous Flux
  - Integrated with cylindrical mirror to improve the luminous flux
- Low Temperature Drift
  - Integrated Temperature Sensor and Temperature Drift Compensation Algorithm

# Technical Characteristics



## Wide Spectral Range

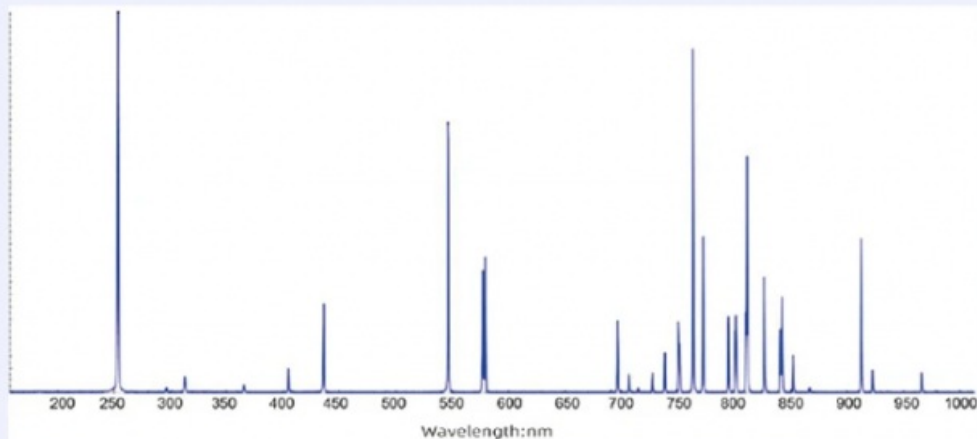
Customized spectral range supporting 200-1100nm



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



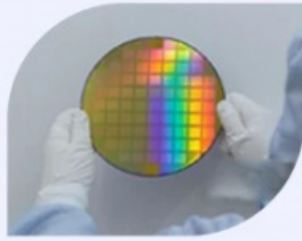
Low Noise: Dark noise standard deviation is approximately 20 for 10ms

## Applications:

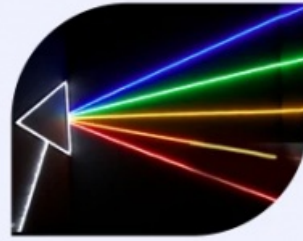
The SR50C spectrometer is a versatile device that can be used in a wide range of applications. Its compact size and modular design make it ideal for use in applications where space is limited, such as in research laboratories. The device is also suitable for use in field applications where portability is important. The SR50C spectrometer can be used in a variety of applications, including color measurement, fluorescence analysis, and UV/VIS/NIR spectroscopy.

The SR50C spectrometer is CE-certified and manufactured in China. The device has a minimum order quantity of 1 and is priced competitively. Payment terms include T/T and Western Union, and the supply ability is 100 PCS/70-90 days. The delivery time for the SR50C spectrometer is 30-50 working days, and customized packaging is available.

# Typical Applications



Supports detection of absorption, transmittance and reflectivity of ultraviolet, visible and near infrared radiations



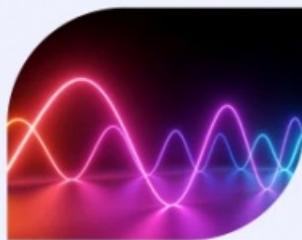
Light source and laser wavelength identification



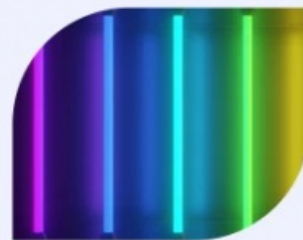
Environmental protection industry (smoke and water quality monitoring)



LIBS



Fluorescence spectrum



Raman spectrum

## Support and Services:

The Universal Compact Fiber Spectrometer is a high-performance instrument that provides accurate and reliable measurements of optical spectra. Our product technical support and services include:

Product training and documentation to ensure optimal performance

Calibration and maintenance services to ensure accurate and reliable measurements

Software updates and upgrades to keep your instrument up-to-date

Our team of experienced engineers and technicians are dedicated to providing exceptional service and support to our customers. Please don't hesitate to contact us with any questions or concerns.

## Packing and Shipping:

Product Packaging:

The Universal Compact Fiber Spectrometer comes in a sturdy cardboard box with foam inserts to protect the device during transportation.

The package also includes:

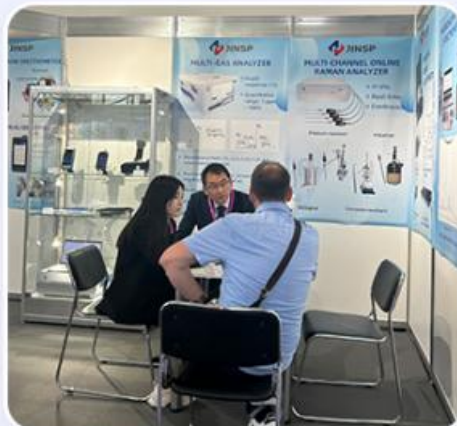
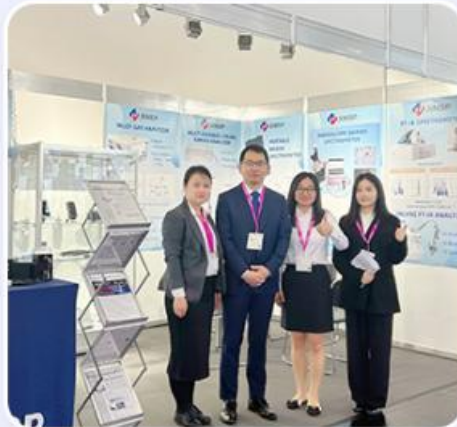
USB cable

User manual

Shipping:

The Universal Compact Fiber Spectrometer is shipped via a reputable courier service to ensure safe and timely delivery. Customers can track their shipments using the tracking number provided via email.

## Exhibition



### FAQ:

Q:What is the brand name of this fiber spectrometer?

A:JINSP is the brand name of this fiber spectrometer.

Q:What is the model number of this fiber spectrometer?

A:The model number of this fiber spectrometer is SR50C.

Q:What certification does this fiber spectrometer have?

A:This fiber spectrometer has CE certification.

Q:Where is this fiber spectrometer made?

A:This fiber spectrometer is made in China.

Q:What are the payment terms for this product?

A:The payment terms for this product are T/T and Western Union. Prices are negotiable.



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