Compact Fiber Optic Spectrometer Module Wide Spectrum Range High Throughput

Our Product Introduction

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

More Images

Our Product Introduction

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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.

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	Focal Length	≤ 50mm
6	Numerical Aperture	0.14
7	Entrance Slit Width	10μm, 25μm, 50μm, 100μm, 200μm (customizable)
8	Dimensions	79mm*68mm*42mm
9	Weight	220g

List of Product Models

Model	Spectral Range (nm)	Resolution (nm)	Slit (μm)
SR50C-G01	200~1000 (UV-NIR)	3.5	50
		2.4	25
		1.5	10
SR50C-G03	350~870(VIS)	2.5	50
		2.0	25
		1.2	10
SR50C-G04	200~550(UV)	1.8	50
SR50C-G07	350~700(VIS)	1.3	25
SR50C-G08	780~1050(NIR)	0.8	10
SR50C-G09	200~450(UV)	1.0	50
		0.6	25
SR50C-G10	525~700(VIS)	0.3	10

* Customization available for other ranges

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

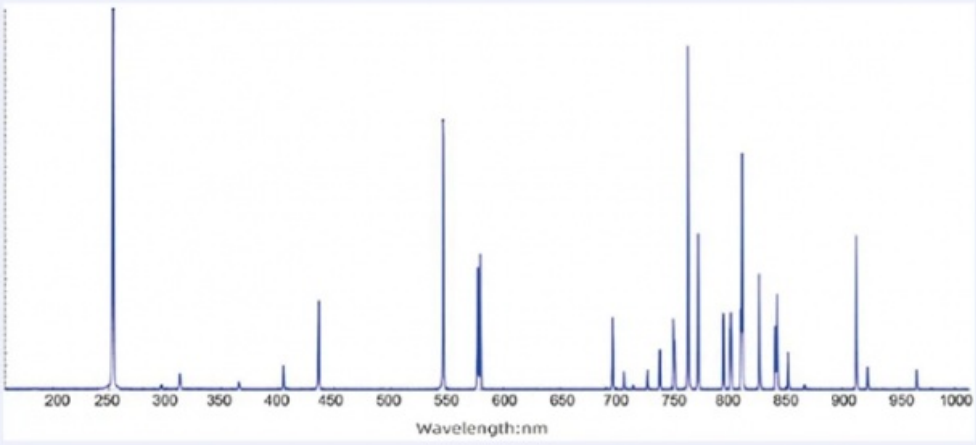
Integrated Temperature Sensor and Temperature Drift

Compensation Algorithm

Technical Characteristics

Wide Spectral Range

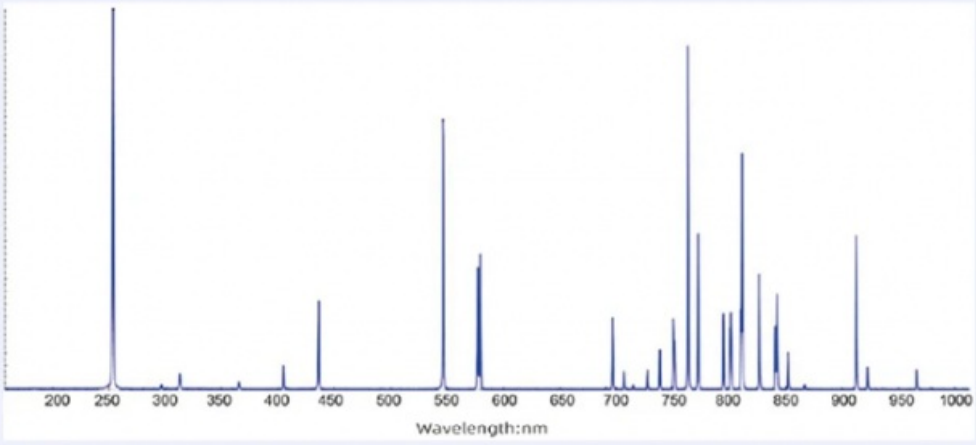
Customized spectral range supporting 200-1100nm



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

High Signal-to-Noise Ratio

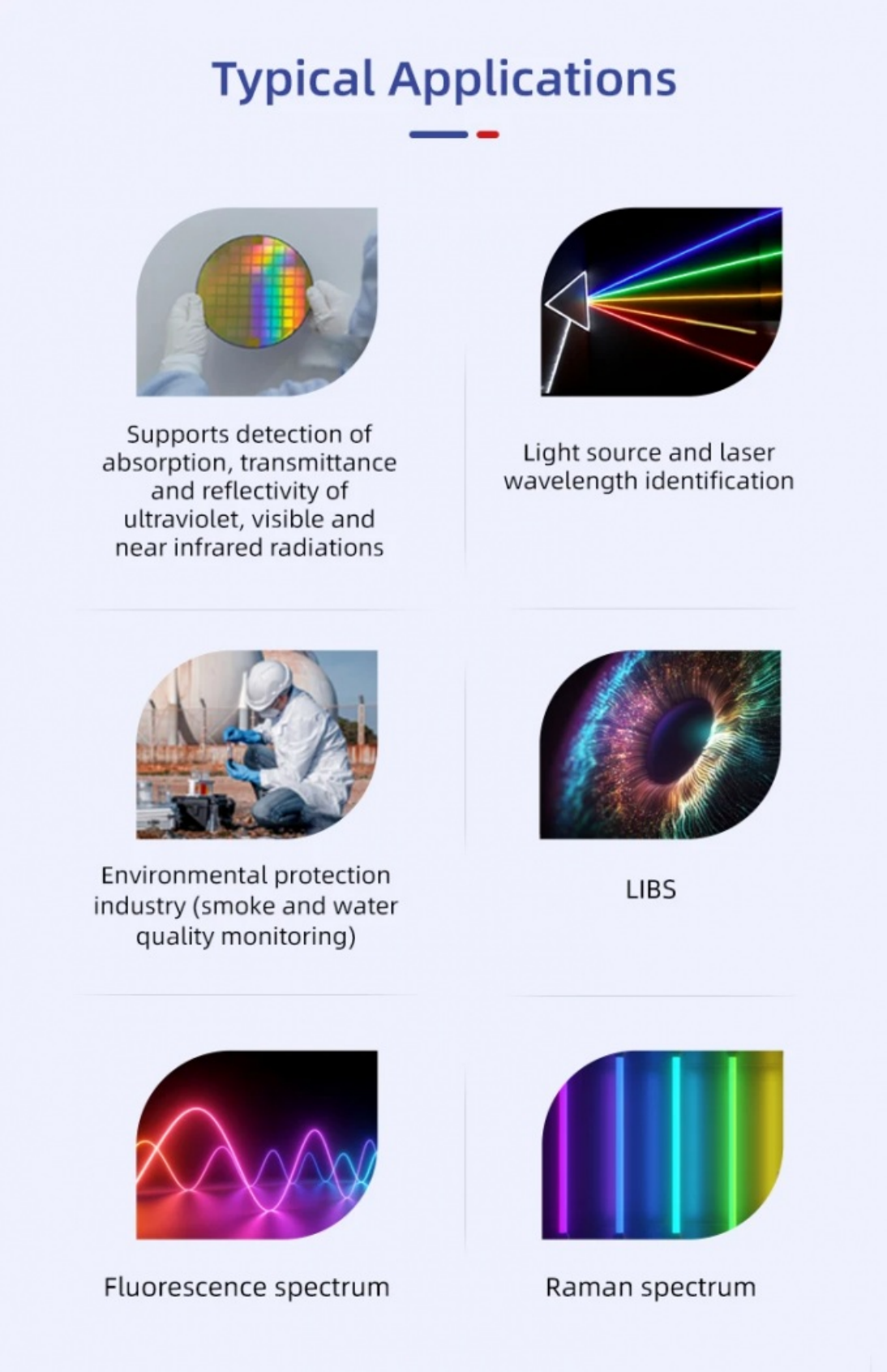
Low-noise CMOS signal processing circuit, with excellent signal-to-noise ratio



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

Applications:

Supports detection of absorption, transmittance and reflectivity of ultraviolet, visible light and near infrared radiations.
Light source and laser wavelength identification.
OEM product module:
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.

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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