Compact CMOS Spectrometer Compact And High-Performance Solution For Spectral Analysis

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: International Shipping Package
- Delivery Time: 30-40 working days
- Payment Terms: T/T, Western Union
- Supply Ability: 100 PCS/30-40 days

Product Specification

- Spectral Range: 200-1100 Nm
- Integration Time: 1 Ms - 60 S
- Signal-to-Noise Ratio: 650:1(4ms
- Dimensions: 76mm*65mm*38mm
- Highlight: **High Performance Compact CMOS Spectrometer**, **High Performance CMOS Spectrometer**, **Spectral Analysis Compact CMOS Spectrometer**

More Images

Our Product Introduction

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Product Description

Compact Modular Fiber Optic Spectrometer 200nm - 1100nm

Designed for harsh environmental conditions, the SR50C features IP65-rated housing with MIL-STD shock resistance. Its adaptive grating automatically optimizes resolution (0.3-5nm selectable) for different water matrices - from turbid wastewater to clear drinking supplies. It is a perface spectrometer module for integrating in water quality analytis device.

The embedded AI-powered spectral library accelerates identification of phosphorus compounds and associated pollutants. Environmental monitoring teams gain lab-grade accuracy in portable field instruments, reducing sample transportation costs and analysis delays by 80% compared to conventional methods.

Technical Parameters:

Detector	Chip Type	Linear array CMOS, Hamamatsu S11639
	Effective Pixel	2048
	Pixel Size	14μm *200μm
	Sensing Area	28.7mm *0.2mm
Optical Parameters	Numerical Aperture	0.14
	Focal Length	≤ 50mm
	Entrance Slit Width	10μm, 25μm, 50μm, 100μm, 200μm
	Resolution	See list of product models for details
	Fiber Interface	SMA905, free space
Electrical Parameters	Integration Time	1ms-60s
	Signal-to-Noise Ratio	650:1(4ms)
	Data Output Interface	Type-C
	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	79mm*68mm*42mm
	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 SR50C-G07 SR50C-G08	200~550(UV) 350~700(VIS) 780~1050(NIR)	1.8	50
		1.3	25
		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**

Technical Characteristics:

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

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,

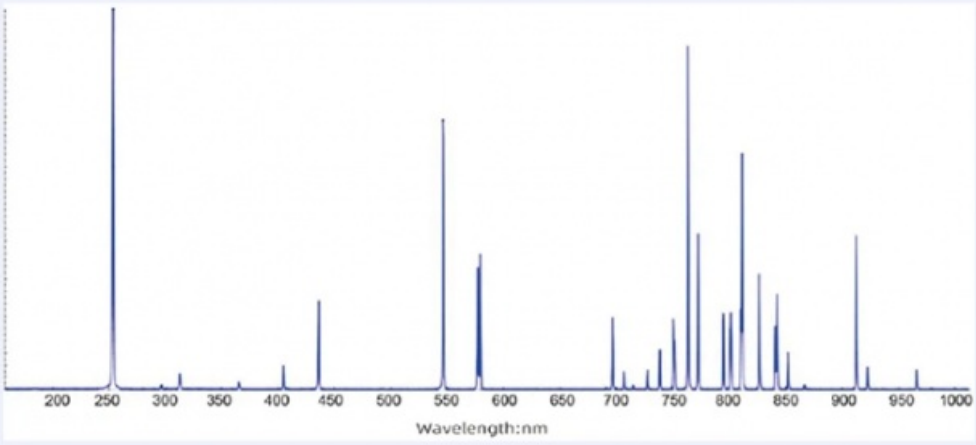
Raman spectrum.


Miniature Fiber Optic Spectrometer
Compact High Throughput Low Noise
SR50C
JINSP
SR50C
spectrometer

Technical Characteristics

Wide Spectral Range

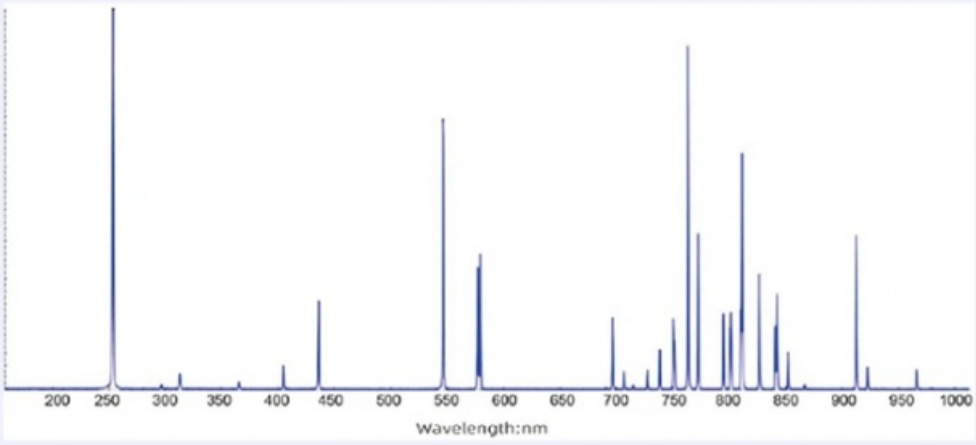
Customized spectral range supporting 200-1100nm



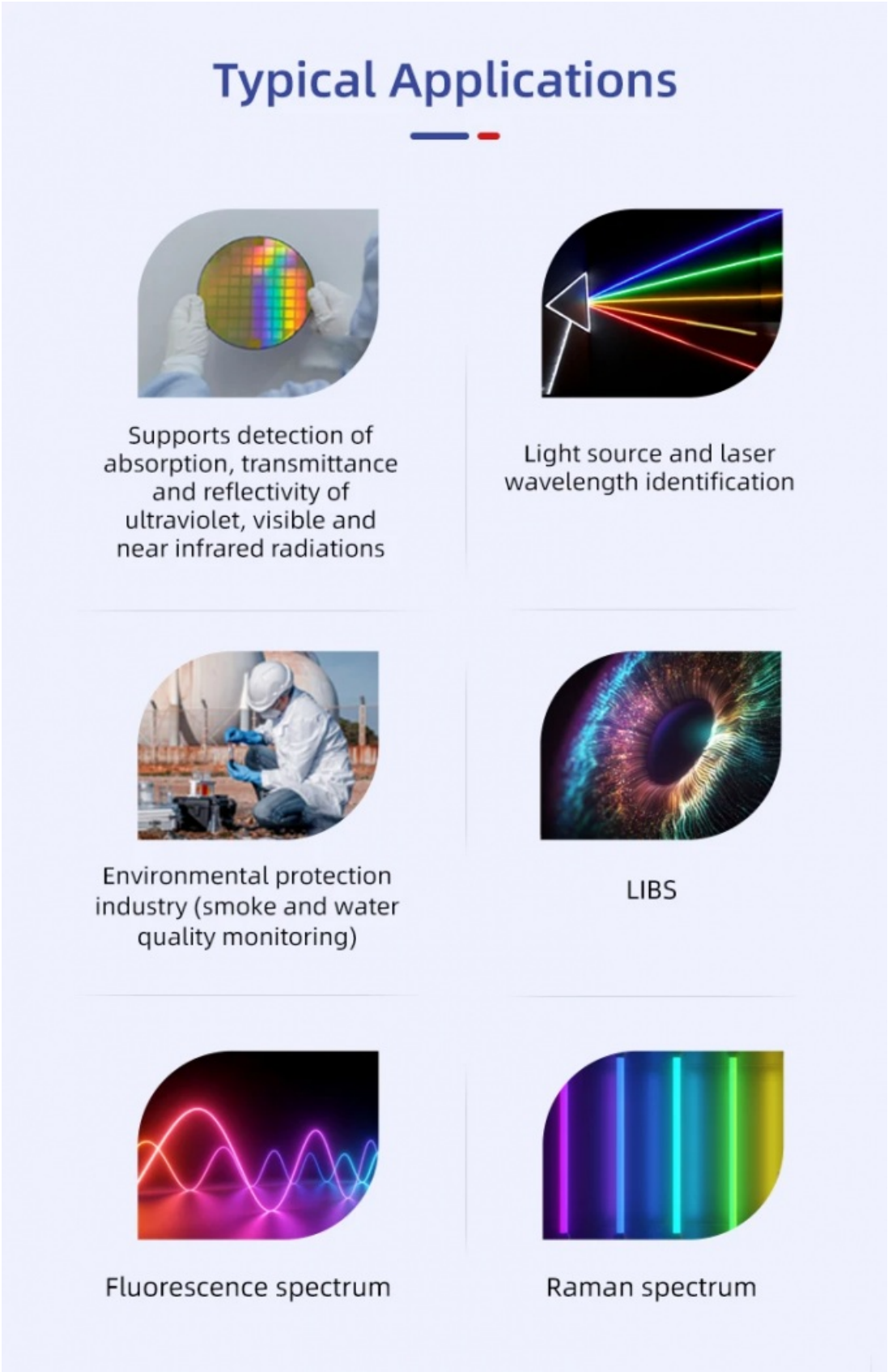
Test results and applications in the range of 200~1000nm–Mercury-Argon Lamp Spectrum

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



Company Introduction:

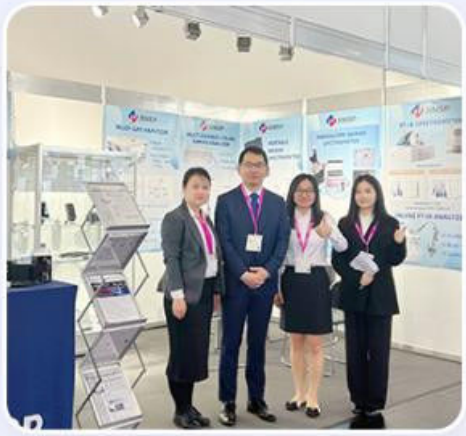
JINSP Company Limited has won the National Science and Technology Commission's Scientific and Technological Achievement Appraisal Certificate and the China Patent Excellence Award, and related products have been obtained has won authoritative awards such as the Geneva International Invention Award, the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

JINSP Company received ISO9001:2015, ISO14001:2015, and ISO45001:2018 certifications. JINSP can provide required certifications, such as certification by the Ministry of Public Security or National Institute of Metrology, Environmental Level Certification, IP Level Certification, CE Certification, Transport Identification Report, EU ECAC certification, German ICT Security Testing, etc.

We uphold the core value of "customer-centric" to ensure that every customer can enjoy unprecedented flexibility and personalized experience. From the initial concept to the final product, we work closely together to ensure that every detail is accurately aligned with customer expectations, and together create exclusive products that exceed expectations.

Company Profile

Exhibition



Certifications

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.

JINSP Company Ltd.

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