Comcpact Fiber Optic Spectrometer Module For Low-transmission Wastewater Analysis Instrument

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: **low-transmission Fiber Optic Spectrometer Module** , **wastewater analysis Fiber Optic Spectrometer Module**

More Images

Product Description

Compact Fiber Optic Spectrometer Module For Low-transmission Wastewater Analysis Instrument

Key Specifications

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Product Overview

The SR50C Compact Modular Fiber Optic Spectrometer revolutionizes environmental monitoring with high-fidelity spectroscopy for instant analysis. Its dual-beam optical configuration eliminates light source fluctuations, ensuring <1% RSD in repeated phosphorus measurements.
Integrated IoT connectivity enables cloud-based water quality mapping across multiple monitoring points. The automatic slit adjustment (25-200μm) optimizes sensitivity for both low-transmission wastewater and high-clarity samples, allowing municipalities and environmental consultancies to implement cost-effective network monitoring with reduced laboratory dependence.

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

Key Features

- **Wide Spectral Range:** Customized range supporting 200-1100nm
- **High Signal-to-Noise Ratio:** Low-noise CMOS signal processing circuit
- **Versatile Detection:** Supports absorption, transmittance and reflectivity measurements
- **Light Source Identification:** Capable of laser wavelength identification

Applications

- Environmental protection industry (smoke and water quality monitoring)
- LIBS (Laser-Induced Breakdown Spectroscopy)
- Fluorescence spectrum analysis

Raman spectrum analysis

Product Images

List of Product Models

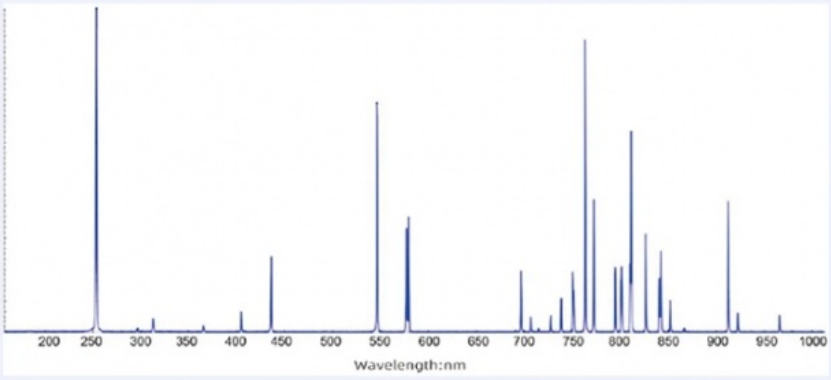
Model	Spectral Range（nm）	Resolution（nm）	Slit（μm）
SR50C-G01	200~1000（UV-NIR）	3.5	50
		2.4	25
		1.5	10
SR50C-G03	350~870(VIS)	2.5	50
		2.0	25
		1.2	10
SR50C-G04	200~550(UV)	1.8	50
SR50C-G07	350~700(VIS)	1.3	25
SR50C-G08	780~1050(NIR)	0.8	10
SR50C-G09	200~450(UV)	1.0	50
		0.6	25
SR50C-G10	525~700(VIS)	0.3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

* Customization available for other ranges

Technical Characteristics

Wide Spectral Range

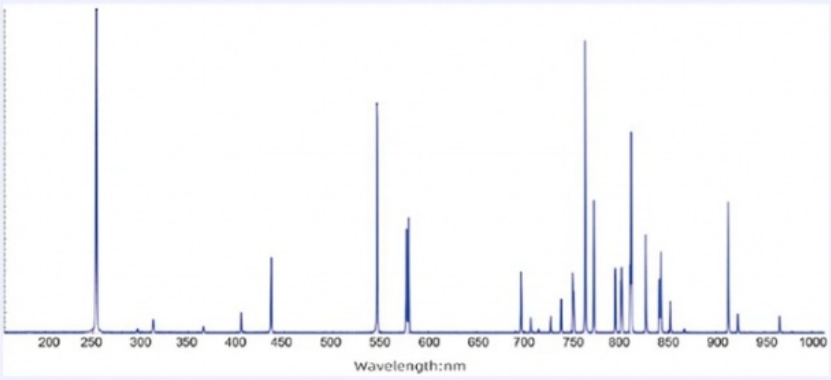
Customized spectral range supporting 200-1100nm



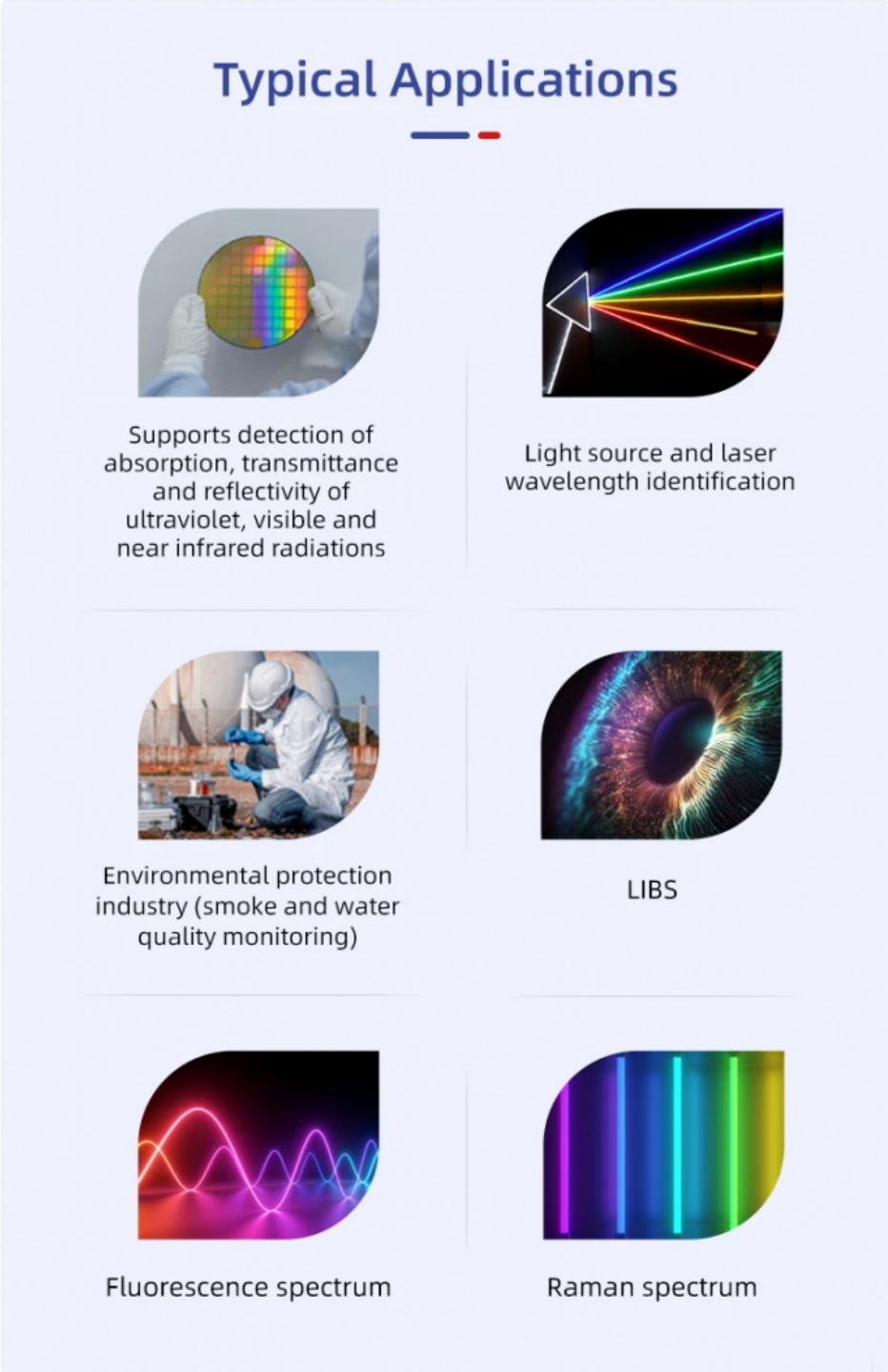
Test results and applications in the range of 200~1000nm–Mercury-Argon Lamp Spectrum

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 Profile

JINSP Company Limited has received numerous prestigious awards including the National Science and Technology Commission's Scientific Achievement Certificate, China Patent Excellence Award, Geneva International Invention Award, and the Zhu Liangyi Analytical Instrument Innovation Award.
Our products comply with GB/T 40219-2021 "General Specification for Raman Spectrometer" and we maintain ISO9001:2015, ISO14001:2015, and ISO45001:2018 certifications. We can provide various required certifications including CE Certification, EU ECAC certification, and German ICT Security Testing.
We uphold a customer-centric approach, working closely with clients from concept to final product to ensure every detail meets expectations and delivers exceptional value.

Frequently Asked Questions

What is the brand name of this fiber spectrometer?

JINSP is the brand name of this fiber spectrometer.

What is the model number of this fiber spectrometer?

The model number is SR50C.

What certification does this fiber spectrometer have?

This product has CE certification.

Where is this fiber spectrometer made?

This fiber spectrometer is manufactured in China.

What are the payment terms for this product?

Payment terms include T/T and Western Union, with negotiable pricing.

JINSP Company Ltd.

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