

Next-Gen Fiber Optic Spectrometer Dual Advantages of USB 3.0 Connectivity and Pixel Size 28.672*0.896mm for Accurate Analysis

Our Product Introduction

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Basic Information

- Place of Origin: CHINA
- Brand Name: JINSP
- Certification: ISO9001 CE
- Model Number: SR100Z
- Minimum Order Quantity: 1
- Price: Negotiable
- Packaging Details: International Shipping Package
- Delivery Time: 30-400 working days
- Payment Terms: T/T, Western Union
- Supply Ability: 100PCS/30-40 days



Product Specification

- Spectral Range: 200nm - 1100nm
- Effective Pixels: 2048*64
- Pixel Size: 28.672*0.896mm
- Fiber Interface: SMA905, Free Space
- Numerical Aperture: 0.13
- Focal Length: 100mm
- Dimensions: 180mm*120mm*50mm
- Weight: 1.2kg
- Highlight: Next Gen Fiber Optic Spectrometer, Pixel Size Fiber Optic Spectrometer, Accurate Analysis Fiber Optic Spectrometer



More Images



Product Description

UV-VIS 200nm-1100nm Wide Wavelength Range Fiber Optic Spectrometer

Forget compromise between speed and sensitivity. This spectrometer's 2048-pixel parallel readout delivers full spectral capture in 50ms, aided by low-noise amplifiers that preserve weak signals. The gold-standard Hamamatsu CCD ensures linear response across 5 decades of intensity - crucial for quantitative analysis.

The secret lies in its three-layer architecture: vibration-damped optical bench, thermally isolated sensor chamber, and EMI-shielded processing electronics. From classroom demonstrations to harsh factory floors, SR100Z maintains calibration integrity through 10G vibration resistance.

Product Parameters:

Detector	Chip Type	Back-illuminated TE-cooling Hamamatsu S11850
	Effective Pixel	2048*64
	Pixel Size	14*14μm
	Sensing Area	28.672*0.896mm
Optical Parameters	Optical Design	F/4 cross type
	Numerical Aperture	0.13
	Focal Length	100mm
	Entrance Slit Width	10μm, 25μm, 50μm, 100μm, 200μm (customizable)
	Fiber Interface	SMA905, free space
Electrical Parameters	Integration Time	4ms~900s
	Data Output Interface	USB3.0, RS232, RS485, 20pin connector
	ADC Bit Depth	16-bit
	Power Supply	5V
	Operating Current	3.5A
Physical Parameters	Operating Temperature	10°C ~ 40°C
	Storage Temperature	-20°C ~ 60°C
	Operating Humidity	90%RH (no condensation)
	Dimensions	180mm*120mm*50mm
	Weight	1.2kg

List of Product Models:

Model	Spectral Range(nm)	Resolution(nm)	Slit(μm)
SR100Z-G21	200~1100	2.2nm	50μm
		1.5nm	25μm
		1.0nm	10μm
SR100Z-G23 SR100Z-G24	200~875	1.6nm	50μm
	350~1025	1.0nm	25μm
		0.7nm	10μm
SR100Z-G28	200~345	0.35nm	50μm
		0.2nm	25μm
		0.14nm	10μm
SR100Z-G25	532~720(4900cm ⁻¹)*	13cm ⁻¹	50μm
SR100Z-G26	638~830(3200cm ⁻¹)*	10cm ⁻¹	25μm
SR100Z-G27	785~1080(3200cm ⁻¹)*	11cm ⁻¹	50μm

Note:The*are primarily designed for Raman applications, with the corresponding Raman.

Technical Characteristics:

High sensitivity: 78% peak quantum efficiency, UV band optimization

High resolution: Realize resolution <1.0nm@25um (200~875nm)

High flexibility: 200nm~1100nm, compatible with multiple interfaces including USB3.0, RS232 and RS485

Typical Applications:

Detect absorption, transmittance and reflection Spectrum

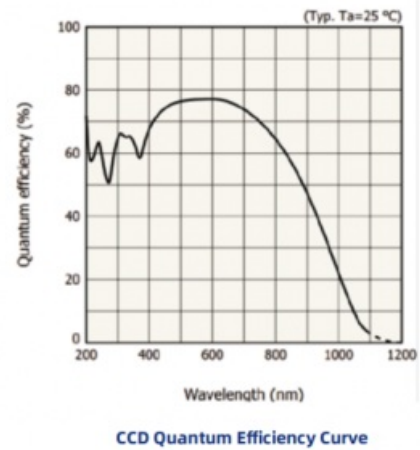
OEM product module: Fluorescence spectrum, Raman spectrum,etc.

Technical Characteristics

- ✓ **High sensitivity:** 78% peak quantum efficiency, UV band optimization
- ✓ **High resolution:** Realize resolution $<1.0\text{nm}@25\mu\text{m}$ (200~875nm)
- ✓ **High SNR:** Integrated with TE-cooling
- ✓ **High flexibility:** 200~1100nm, compatible with multiple interfaces including USB3.0, RS232 and RS485

Typical Applications

- ✦ **Detect absorption, transmittance and reflection spectrum**
- ✦ **Light source and laser wavelength characterization**
- ✦ **OEM product module:** Fluorescence spectrum, Raman spectrum, etc.



Company Introduction:

JINSP Company Limited, abbreviated as "JINSP", is a professional supplier with over 17 years of experience in spectral detection technology products, including Raman, FT-IR, LIBS technologies, etc. After 17 years of technology accumulation, the company's core key technologies have reached the international leading position at the level, and the cumulative number of patent applications exceeded 200.

In addition to its main headquarters located in the bustling city of Beijing, JINSP has established a fully owned subsidiary manufacturing facility situated in the province of Jiangsu, China.

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.

Company Profile



Exhibition



Certifications



FAQ

Q1: This is the first time I use, is it easy to operate?

A1:We will send you manual and guide video in English,it can teach you how to operate the spectrometer.Also our technicians will offer professional technical operation meetings.

Q2:Can you offer a operation training?

A2:Your technicians can come to our factory for a training. Jinsp engineers can go to your place for local support (installation , training, debugging, maintenance).

Q3:What's your website?

A3:You can visit:www.jinsptech.com

Q4:What about your quality assurance?

A4:We have a quality inspection team. All goods will go through quality inspection before shipment. We can send you pictures for inspection.



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