

High-Sensitivity Fiber Optic Spectrometer with 100mm Focal Length and Customizable Entrance Slit Width

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



More Images



Product Description

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

Meet the SR100Z - where $14\mu\text{m}^2$ pixel architecture meets industrial-grade reliability. Unlike conventional sensors, its back-thinned CCD captures twice the photon energy in near-infrared ranges while maintaining <5 operational stability through active thermal management.

The secret weapon? A revolutionary FPGA circuit that processes spectral data 3x faster than conventional designs. From real-time plasma emission monitoring to portable environmental sensing, this instrument's 64-channel parallel acquisition redefines what compact spectrometers can achieve.

Product Parameters:

Detector	Chip Type	Back-illuminated TE-cooling Hamamatsu S11850
	Effective Pixel	2048*64
	Pixel Size	14*14 μm
	Sensing Area	28.672*0.896mm
Optical Parameters	Optical Design	F/4 cross type
	Numerical Aperture	0.13
	Focal Length	100mm
	Entrance Slit Width	10 μm , 25 μm , 50 μm , 100 μm , 200 μm (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	50 μm
		1.5nm	25 μm
		1.0nm	10 μm
SR100Z-G23 SR100Z-G24	200~875	1.6nm	50 μm
	350~1025	1.0nm	25 μm
		0.7nm	10 μm
SR100Z-G28	200~345	0.35nm	50 μm
		0.2nm	25 μm
		0.14nm	10 μm
SR100Z-G25	532~720(4900 cm^{-1})*	13 cm^{-1}	50 μm
SR100Z-G26	638~830(3200 cm^{-1})*	10 cm^{-1}	25 μm
SR100Z-G27	785~1080(3200 cm^{-1})*	11 cm^{-1}	50 μm

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 $<1.0\text{nm}@25\mu\text{m}$ (200~875nm)

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

Typical Applications:

Detect absorption, transmittance and reflection Spectrum

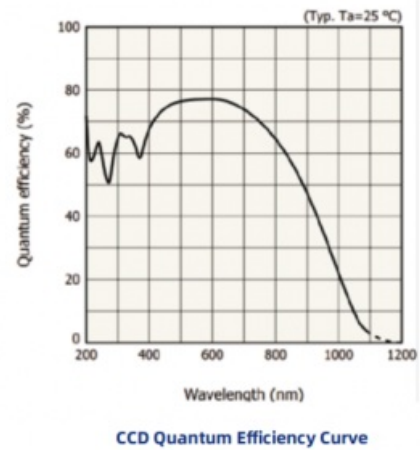
OEM product module: Fluorescence spectrum, Raman spectrum, etc.

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.

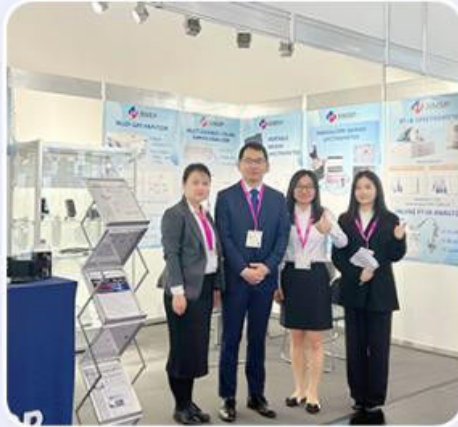
In addition to its main headquarters located in the bustling city of Beijing, JINSP has established a fully owned subsidiary manufacturing facility situated in the province of Jiangsu, China.

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 vedio in English,it can teach you how to operate the spectrometer.Also our technicians will offer professional technical opearation meetings.

Q2:Can your offer a operation traning?

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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