USB 3.0 Connectivity and Lab-Grade Stability Dual Advantages of Next-Gen Fiber Optic Spectrometer

Basic Information

Place of Origin: CHINA
Brand Name: JINSP
Certification: ISO9001 CE
Model Number: SR100Z

Minimum Order Quantity:

• 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

• Spectrual Range: 200nm - 1100nm

• Effective Pixels: 2048*64

Pixel Size: 28.672*0.896mmFiber Interface: SMA905, Free Space

Numerical Aperture: 0.13Focal Length: 100mm

• Dimensions: 180mm*120mm*50mm

• Weight: 1.2kg



More Images







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:

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

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

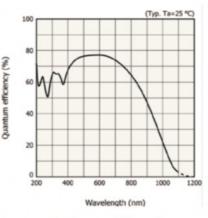
OEM product module: Fluorescence spectrum, Raman spectrum, etc.

Technical Characteristics

- High sensitivity: 78% peak quantum efficiency, UV band
- ✓ High resolution: Realize resolution <1.0nm@25um (200~875nm)</p>
- 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.



CCD Quantum Efficiency Curve

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

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 tecnical 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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