

Customizable Back-illuminated CCD Fiber Optic Spectrometer with High Sensitivity and Resolution

Basic Information

- Place of Origin:
- Brand Name:
- Certification:
- Model Number:
- Minimum Order Quantity:
- Price:
- Packaging Details:
- Delivery Time: 30-400 working days
- Payment Terms: T/T, Western Union

CHINA

JINSP

SR100B

Negotiable

International Shipping Package

100PCS/30-40 days

1

ISO9001 CE

• Supply Ability:

TINSP IINSP



Product Specification

- Spectrual Range:
- Effective Pixels:
- Pixel Size:
- Integration Time:
- Dimensions:
- Weight:
- 2048*64

200nm - 1100nm

- 28.672*0.896mm
- 4ms~900s
 - 180mm*120mm*50mm
 - 1.2kg



Our Product Introduction

Backlit array CCD UV enhanced High Sensitivity Modular Spectrometer

The SR100B spectrometer is a powerhouse of spectral analysis, boasting a back-illuminated CCD sensor with exceptional performance metrics. It is a go-to solution for industrial, laboratory, and research applications that demand precision and speed. The Hamamatsu S10420 CCD chip provides a vast sensing area and ensures stable spectral measurements. With a 2048x64 pixel array and 14x14µm pixel size, the SR100B delivers outstanding quantum efficiency and sensitivity across the 200-1100nm spectrum.

The spectrometer can be tailored with various gratings and slit widths to meet specific spectral resolution and sensitivity requirements. Its high-resolution optical path and advanced FPGA signal processing technology ensure superior spectrum signals and a stable, dependable performance.

Product Parameters:

Detector	Chip Type	Back-illuminated cooling Hamamatsu S10420	
	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	
	Integration Time	4ms~900s	
Electrical Parameters	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 ~40	
	Storage Temperature	-20 ~60	
	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)
-		2.2	50
SR100B-G21	200~1100	1.5	25
		1.0	10
		1.6	50
SR100B-G23	200~875	1.0	25
SR100B-G24	350~1025	0.7	10
		0.35	50
SR100B-G28	200~345	0.2	25
		0.14	10
SR100B-G25	532~720(4900cm-1*)*	13cm-1	50
SR100B-G26	638~830(3200cm-1)*	10cm-1	25
SR100B-G27	785~1080(3200cm-1)*	11cm-1	50

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

Technical Characteristics:

High sensitivity-Fitted with area array back-illuminated detector with high quantum efficiency,optimizable ultraviolet band High resolution -Resolution<1.0nm@10µm (200~1100nm)

High flexibility-180~1100nm, compatible with multiple interfaces including USB3.0, RS232 and RS485

High reliability -Ultra-high SNR and excellent thermal

Typical Applications:

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

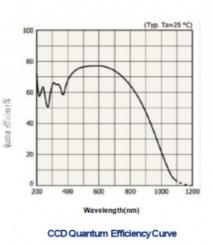
Technical Characteristics

High sensitivity-Fitted with area array back-illuminated detector with high quantum efficiency optimizable ultraviolet band

- High resolution Resolution < 1.0nm@10µm (200~1100nm)
- High flexibility-180~1100nm,compatible with multiple interfaces including USB3.0,RS232 and RS485
- High reliability -Ultra-high SNR and excellent thermal

Typical Applications

- Detect absorption, transmittance and reflection spectrum
- Light source and laser wavelength characterization
- OEM product module:Fluorescence spectrum,<u>Raman</u> 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.

JINSP offers over twenty spectroscopic products across various fields, including pharmaceutical and chemical industries, public security, and customs. Products are available nationwide and are exported to over 30 countries, with cumulative sales exceeding 3,000 units.

Benefit from 30+ R&D engineers, including 4 Ph.D., JINSP is deeply rooted in the field of personalized product customization, and is committed to meeting the diverse and unique needs of customers with excellent professional technology and innovative design capabilities.

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



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.

8618620854	039 Phoebeyu@jinsptech.com	e spectralanalyser.com	
21st Floor, Building D. Tsi	nghua Tongfang Science and Technolog	v Plaza, Haidian District, Beijing China	