Cooled Detector Fiber Optic Spectrometer with SMA905 Fiber Interface 200-1100nm Pixel Size 28.672*0.896mm

Basic Information

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

• 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*0.896mm • Fiber Interface: SMA905, Free Space

• Numerical Aperture: 0.13 • Focal Length: 100mm

Dimensions: 180mm*120mm*50mm

Weight: 1.2kg

• Highlight: Fiber Optic Spectrometer with SMA905,

Cooled Detector Fiber Optic Spectrometer



Cooled Detector Low Noise High Sensitivity Modular Spectrometer

The JINSP SR100Z spectrometer is equipped with a Hamamatsu S11850 area array back-illuminated CCD chip. The thermoelectric cooler attached to the CCD keeps chip temperature constant (approximately 5), improves spectrum SNR, and enhances durability. With a 2048*64 pixel number and a 14*14µm pixel size, it receives more optical signals and exhibits quantum efficiency 2 times that of a linear array sensor in the 200~1100 nm spectral range; the quantum efficiency in the ultraviolet band is as high as 70%.

For excellent spectrum signals, stable, and reliable performance SR100Z is integrated with a high-resolution imaging path and an advanced FPGA low-noise and high-speed signal processing circuit. With its enhanced sensitive area, it is well-suited for a wide range of spectral applications, including fluorescence, transmission/reflection, and Raman spectra.

Product Parameters:

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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		
	Integration Time	4ms~900s		
	Data Output Interface	USB3.0, RS232, RS485, 20pin connector		
Electrical Parameters	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)
		2.2nm	50μm
SR100Z-G21	200~1100	1.5nm	25µm
		1.0nm	10µm
	200~875	1.6nm	50µm
SR100Z-G23	200-873	1.0nm	25µm
SR100Z-G24	350~1025	0.7nm	10µm
	200~345	0.35nm	50μm
SR100Z-G28		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

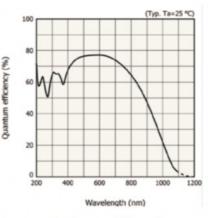
OEM product module: Fluorescence spectrum, Raman spectrum, etc.

Technical Characteristics

- High sensitivity: 78% peak quantum efficiency, UV band
- ✓ 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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