

2048*64 Effective Pixel Size and 14*14 mu m Pixel Size for High Sensitivity **Fiber Optic Spectrometer**

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

SR100Z

Negotiable

International Shipping Package

100PCS/30-40 days

1

ISO9001 CE

• Supply Ability:



Product Specification

- Spectrual Range:
- Effective Pixels:
- Pixel Size:
- Fiber Interface:
- Numerical Aperture:
- Focal Length:
- Dimensions:
- Weight:
- 2048*64 28.672*0.896mm SMA905, Free Space

200nm - 1100nm

- 0.13
- 100mm
 - 180mm*120mm*50mm
- 1.2kg



More Images

d JINSP



Cooled Detector 200nm ~ 1100nm Wide Range Modular Spectrometer

Engineered for spectral excellence, the SR100Z features breakthrough CCD technology with dual cooling-performance advantages. The integrated TE cooling system not only extends sensor lifespan but also enables consistent 70% UV quantum efficiency - critical for precise fluorescence measurements and UV-Vis spectroscopy.

Beyond raw sensitivity, its 2048-pixel spatial resolution and proprietary noise reduction algorithms ensure lab-grade results across applications. Whether analyzing thin-film reflections or capturing weak Raman signals, this spectrometer delivers unmatched SNR through intelligent hardware-software integration.

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)
		2.2nm	50µm
SR100Z-G21	200~1100	1.5nm	25µm
		1.0nm	10µm
SR100Z-G23 SR100Z-G24	200~875	1.6nm	50µm
		1.0nm	25µm
	350~1025	0.7nm	10µm
SR100Z-G28		0.35nm	50µm
	200~345	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.

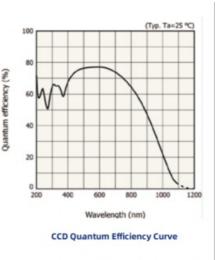
Technical Characteristics

- High sensitivity: 78% peak quantum efficiency, UV band optimization
- High resolution: Realize resolution <1.0nm@25um (200~875nm)
- High SNR: Integrated with TE-cooling

High flexibility: 200~1100nm, compatible with multiple interfaces including USB3.0, R5232 and R5485

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



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	