

SR100Q Back Thinned CCD Fiber Spectrometer High Signal-To-Noise Ratio **Cooled Fiber Optic Spectrometer Module**

Basic Information

- Place of Origin:
- Brand Name:
- Certification:
- Model Number:
- Minimum Order Quantity:
- Price:
- · Packaging Details:
- Delivery Time:
- 90-120 working days • Payment Terms: T/T, Western Union

CHINA

JINSP

ISO9001

SR100Q

Negotiable

Customized Packaging

5PCS/90-120 days

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• Supply Ability:



Product Specification

- Spectrual Range:
- Resolution:
- Chip Type:
- Effective Pixels:
- Qutuam Efficiency:
- SNR:
- Highlight:

200nm - 1100nm
1.2~7.7nm(can Be Customized)
Back-illuminated TE-cooled Hamamatsu S7031
1024*122
QE92%peak@650nm, 83%@232nm
1000:1
Back Thinned CCD Fiber Spectrometer,

Fi er Optic Spectrometer Module, **Cooled Fiber Optic Spectrometer**





Back-thinned CCD Cooled Modular Fiber Optic Spectrometer SR100Q

SR100Q series of products is JINSPs' response to customers who require higher performance demanding spectroscopy applications such as fluorescence, luminescence, and Raman. The SR100Q product range includes several high-sensitivity, low-noise spectrometers. Several of these instruments feature back-thinned detector technology, some of which feature our high-performance, thermoelectrically cooled detectors. The back-thinned CCD detectors featured in the SR100Q series are high-quantum efficiency detectors with excellent response in the ultraviolet, visible, and near-infrared range from 200nm to 1100 nm.

Ultra High Sensitivity Fiber Optic Spectrometer

Research-grade CCD chip 57031

SR100Q



Specifications:

Chip Type	Back-illuminated TE-cooled Hamamatsu S7031	
Effective Pixel	1024*122	
Pixel Size	24*24µm	
Sensing Area	24.576*2.928mm	

Qutuam Efficiency	QE92%peak@650nm,83%@232nm
Spectrual Range	185~1100nm(can be customized)
Resolution	1.2~7.7nm(can be customized)
SNR	1000:1
Dimensions	185mm*126mm*53mm
Weight	1.7kg

S R 100 Q

List of Product Models

→ Classification of Different Spectral Ranges - GXX - 25 L → Slit Width (µm)

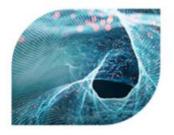
Model	Spectral Range (nm)	Resolution (nm)	Slit (µm)
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SR100Q-G21	200~950	2.5nm	50µm
SR100Q-G22	350~1100	1.7nm	25µm
		1.6nm	10µm
SR1000-G23	200~775	1.9nm	50µm
	350~925	1.3nm	25µm
SR100Q-G24		1.2nm	10µm
SR100Q-G25	532~696(4400cm ⁻¹)	0.4nm/13cm ⁻¹	25µm
SR100Q-G26	644~800(3200cm ⁻¹)	0.4nm/9cm ⁻¹	25µm
SR100Q-G27	785~1030(3200cm ⁻¹)	0.6nm/9.1cm ⁻¹	25µm
		0.71nm/11cm ⁻¹	50µm

Note: The resolution value is a theoretical value, and a 20% deviation is allowed in practice.

Technical Characteristics

- High quantum efficiency, 92%peak@650nm, 83%@232nm
 High SNR: Ultra-low dark noise under long integration time, SNR is as high as 1000:1
- Noise-free clear processing of weak signal in long exposure, strong adaption to environment
 Low-noise and high-speed circuit: USB3.0

Technical Characteristics



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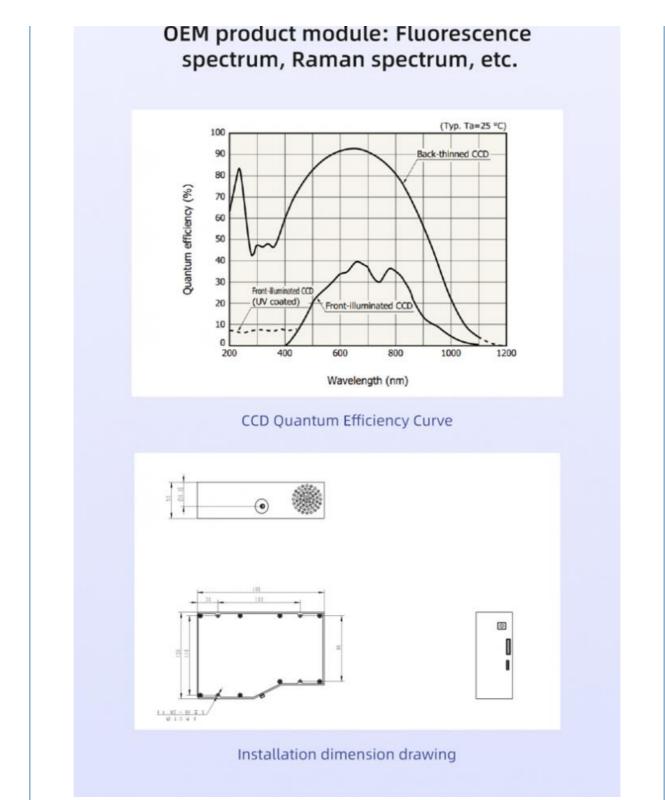
Typical Applications:

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

Typical Applications

Detect absorption, transmittance and reflection Spectrum

Light source and laser wavelength characterization



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.

This strategic move allows JINSP to maintain stringent control over its production processes, ensuring that every product bearing the JINSP brand name meets the highest quality standards. The presence of this manufacturing base not only enhances the company's ability to deliver superior products but also underscores its commitment to excellence in manufacturing.

By having this dedicated facility, JINSP can closely monitor and manage every step of the production chain, from raw material selection to final quality checks, thereby guaranteeing that customers receive products of the utmost quality. This vertical integration approach further strengthens JINSP's market position and enables it to respond swiftly to market demands while maintaining consistent product quality.

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 Company Limited has won the National Science and Technology Commission's Scientific and Technological Achievement Appraisal Certificate and the China Patent Excellence Award, and related products have been obtained has won authoritative awards such as the Geneva International Invention Award, the Beijing New Technology and New Product Certificate, and the "Innovation Achievement Award" of the Zhu Liangyi Analytical Instrument Innovation Award.JINSP is a professional leading solution provider of molecular spectroscopy, particulally in Roman Spectroscopy for many years.

Company Profile



Exhibition









Certifications



will offer professional tecnical opearat Q2:Can your offer a operation trani A2:Your technicians can come to our (installation, training, debugging, ma Q3:What's your website? A3:You can visit:www.jinsptech.com Q4:What about your quality assura	ng? factory for a training. Jinsp engineers can go to your place for local support intenance).
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