

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

Our Product Introduction

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Basic Information

- Place of Origin: CHINA
- Brand Name: JINSP
- Certification: ISO9001
- Model Number: SR100Q
- Minimum Order Quantity: 1
- Price: Negotiable
- Packaging Details: Customized Packaging
- Delivery Time: 90-120 working days
- Payment Terms: T/T, Western Union
- Supply Ability: 5PCS/90-120 days



Product Specification

- Spectral Range: 200nm - 1100nm
- Resolution: 1.2~7.7nm(can Be Customized)
- Chip Type: Back-illuminated TE-cooled Hamamatsu S7031
- Effective Pixels: 1024*122
- Quantum Efficiency: QE92%peak@650nm, 83%@232nm
- SNR: 1000:1
- Highlight: Back Thinned CCD Fiber Spectrometer, Fiber Optic Spectrometer Module, Cooled Fiber Optic Spectrometer

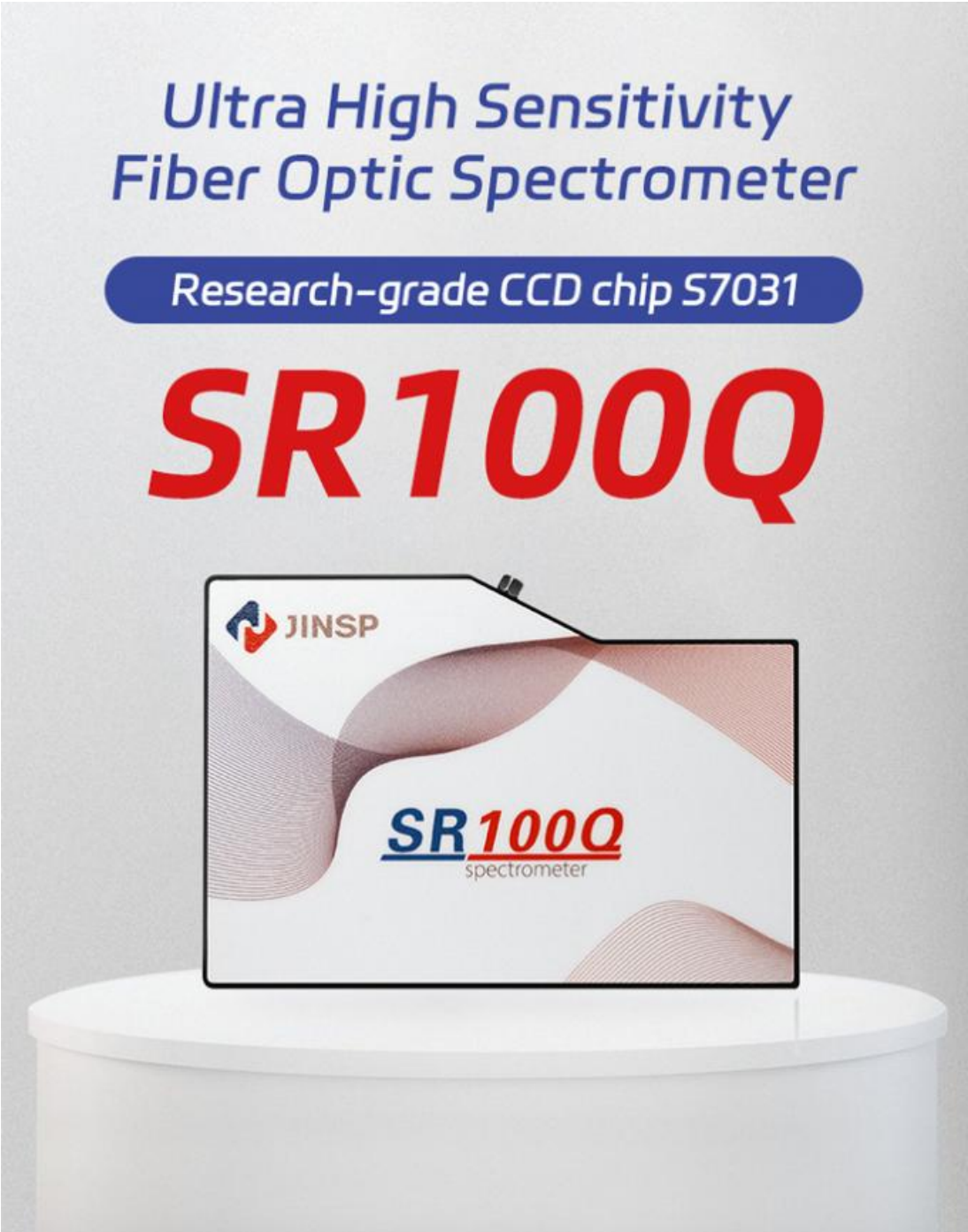


More Images



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.



Specifications:

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

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

List of Product Models



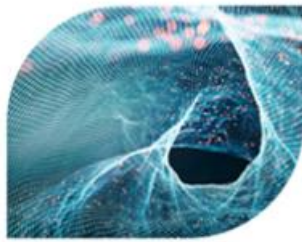
Model	Spectral Range (nm)	Resolution (nm)	Slit (μm)
SR100Q-G21	200~950	6.9nm	200μm
SR100Q-G22	350~1100	2.5nm	50μm
		1.7nm	25μm
		1.6nm	10μm
SR100Q-G23	200~775	1.9nm	50μm
SR100Q-G24	350~925	1.3nm	25μm
		1.2nm	10μm
SR100Q-G25	532~696(4400cm ⁻¹)	0.4nm/13cm ⁻¹	25μm
SR100Q-G26	644~800(3200cm ⁻¹)	0.4nm/9cm ⁻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



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

Typical Applications:

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

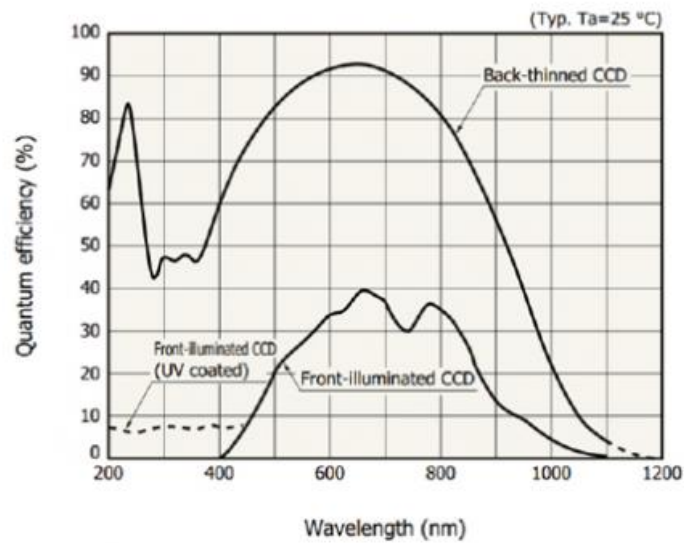
Typical Applications

Detect absorption, transmittance and
reflection Spectrum



Light source and laser wavelength
characterization





JINSP Company Limited 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, particularly in Roman Spectroscopy for many years.

Company Profile



Exhibition



Certifications



FAQ

Q1: This is the first time I use, is it easy to operate?

A1:We will send you manual and guide video in English,it can teach you how to operate the spectrometer.Also our technicians will offer professional technical operation meetings.

Q2:Can you offer a operation training?

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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