

SR100Q Fiber Optical Spectrometer for High Sensitivity Raman Spectrometers Ultra High SNR and Numerical Aperture of 0.13

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: 185~1100nm(can Be Customized)
- Model Name: SR100Q Ultra High Sensitivity Fiber Optic Spectrometer
- Numerical Aperture: 0.13
- Focal Length: 100nm
- Entrance Slit Width: 10μm, 25μm, 50μm, 100μm, 200μm(customizab
- Highlight: **High Sensitivity Fiber Optical Spectrometer, Ultra High SNR Fiber Optical Spectrometer, 0.13 Numerical Aperture Fiber Optical Spectrometer**

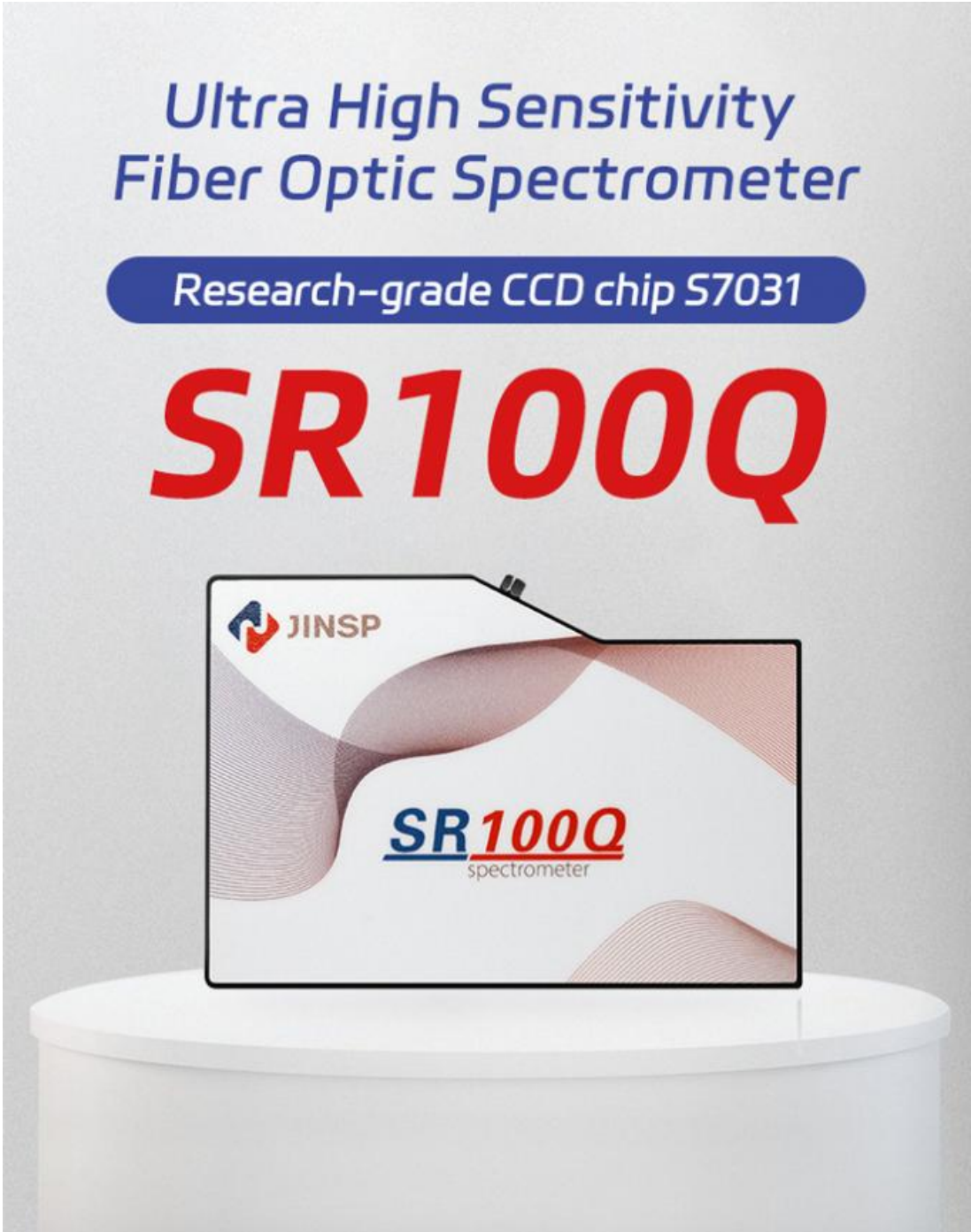


More Images



SR100Q Ultra High Sensitivity Fiber Optic Spectrometer

The JINSP SR100Q spectrometer is integrated with the Hamamatsu S7031, a scientific-grade TE-cooled area array CCD chip. With a pixel size of up to 24*24μm and excellent quantum efficiency of up to 92%, it ensures high response in the ultraviolet band and effectively improves the sensitivity and SNR of weak signals. Furthermore, it can realize excellent spectrum signals, and stable and reliable performance based on the advanced high-resolution light path and low-noise, high-speed FPGA signal processing chip. The TE cooling-based CCD greatly reduces dark noise and is well suited for weak light detection in scientific research applications.



Specifications:

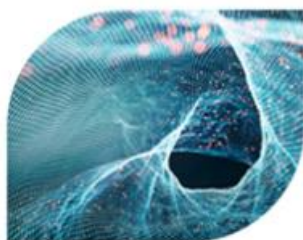
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|-----------------|--|
| Chip Type | Back-illuminated TE-cooled Hamamatsu S7031 |
| Effective Pixel | 1024*122 |
| Resolution | 1.2~7.7nm(can be customized) |
| Dynamic Range | 12000:1 |

| | |
|---------------------|--|
| Dark Noise | 5Counts(RMS) |
| Optical Design | F/4 cross-type |
| Entrance Slit width | 10μm,25μm,50μm,100μm,200μm(customizable) |
| SNR | 1000:1 |
| Dimensions | 185mm*126mm*53mm |
| Weight | 1.7kg |

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

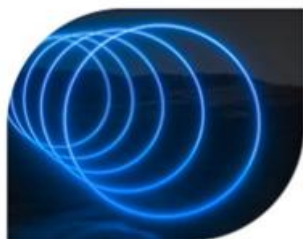
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High SNR: Ultra-low dark noise
under long integration time,
SNR is as high as 1000:1



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

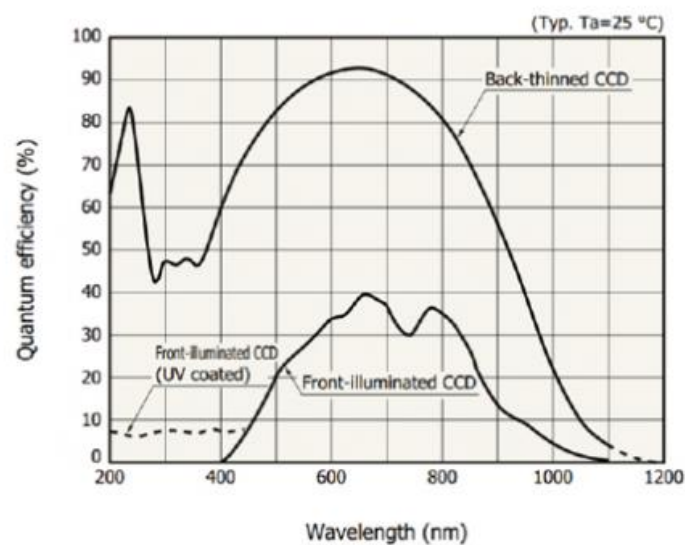
Detect absorption, transmittance and reflection Spectrum



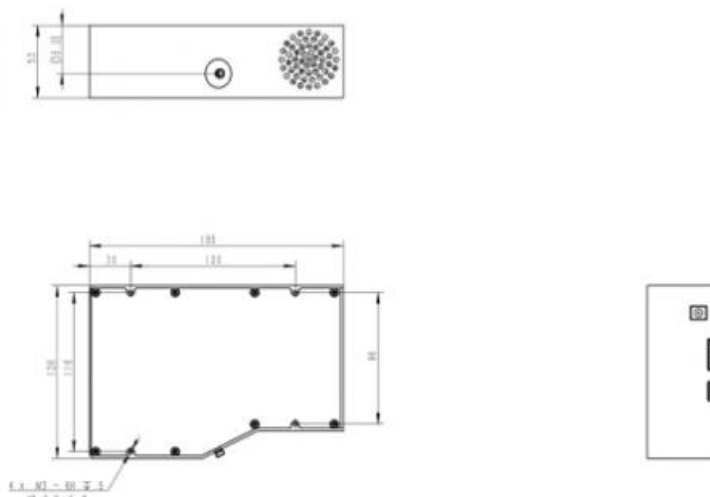
Light source and laser wavelength characterization



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



CCD Quantum Efficiency Curve



JINSP is a professional leading solution provider of molecular spectroscopy, particularly in Raman Spectroscopy for many years.

Our products mostly include:

- UV VIS NIR fiber optic spectrometers;
- Desktop/portable, online Raman analyzers for laboratory or industrial liquid & gas analysis;
- On-site rapid detectors/identifiers based on Raman technology for drugs, liquid, food safety, explosive & hazardous materials, pharmaceutical industry etc;

Company Profile



Exhibition



FAQ

Q1:Can your offer a operation traning?

A1:Your technicians can come to our factory for a training. Jinsp engineers can go to your place for local support (installation , training, debugging, maintenance).

Q2:What's your website?

A2:You can visit:www.jinsptech.com

Q3:What about your quality assurance?

A3:We have a quality inspection team. All goods will go through quality inspection before shipment. We can send you pictures for inspection.

Q3:What's the production time for delivery?

A4:Around 2-3 months.



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