

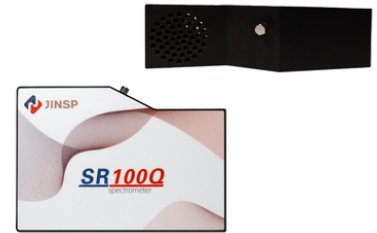
High SNR SR100Q Fiber Optical Spectrometer Ultra High Sensitivity Low Noise And High Speed

Our Product Introduction

for more products please visit us on spectralanalyser.com

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)
- Weight: 1.7kg
- Model Name: SR100Q Ultra High Sensitivity Fiber Optic Spectrometer
- Chip Type: Back-illuminated TE-cooled Hamamatsu S7031
- Effective Pixels: 1024*122
- Sensing Area: 24.576*2.928mm
- Highlight: **High Sensitivity Fiber Optical Spectrometer, Low Noise Fiber Optical Spectrometer, High Speed Fiber Optical Spectrometer**



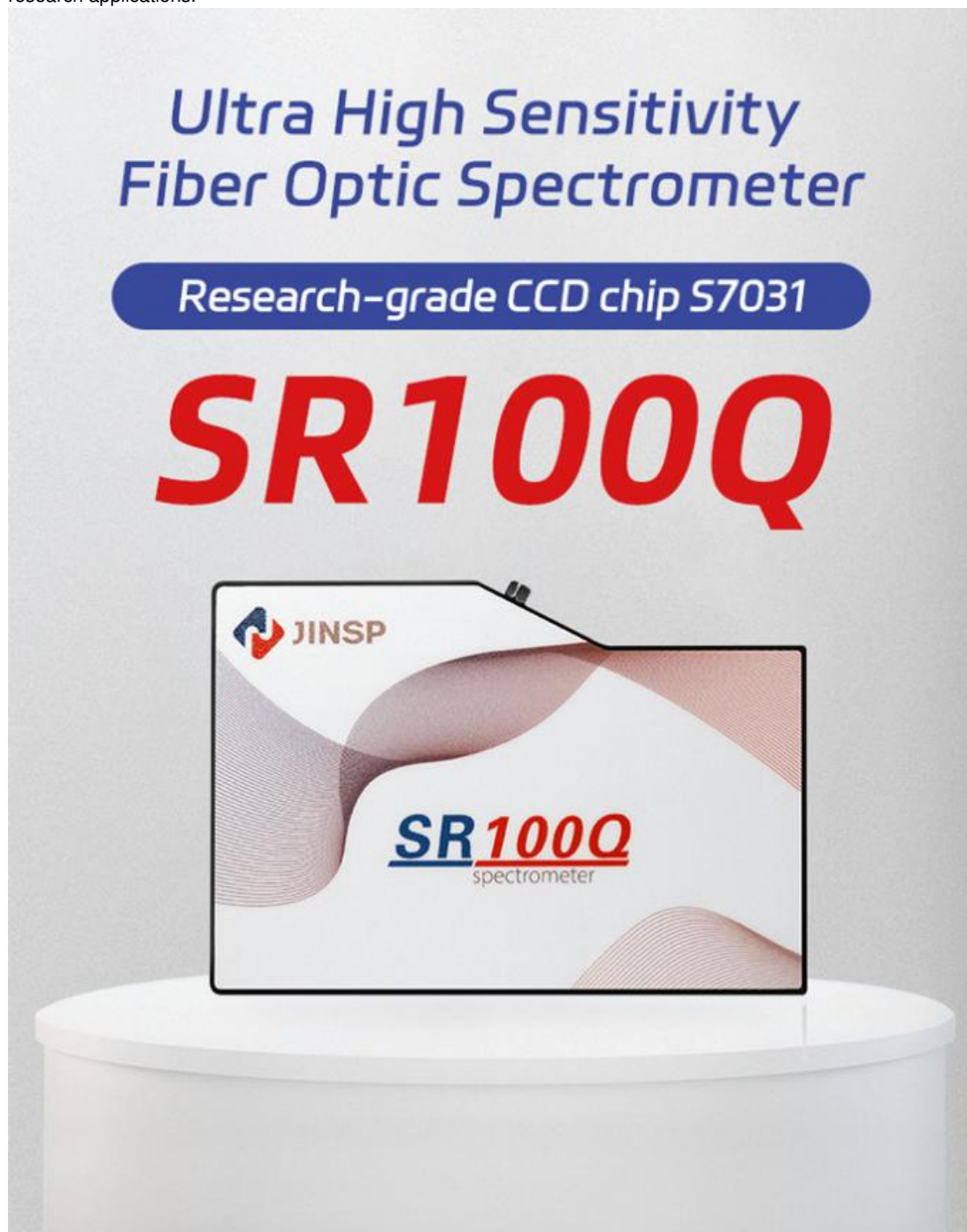
More Images



Product Description

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 $24 \times 24 \mu\text{m}$ 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:

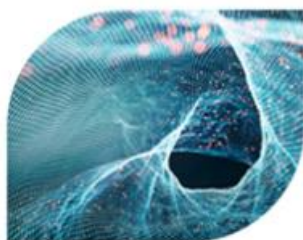
| | |
|-----------------|--|
| Chip Type | Back-illuminated TE-cooled Hamamatsu S7031 |
| Effective Pixel | 1024*122 |
| Pixel Size | 24*24 μm |
| Sensing Area | 24.576*2.928mm |

| | |
|--------------------|-------------------------------|
| 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 |

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

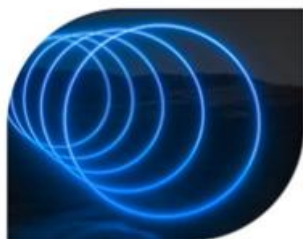
Technical Characteristics



High quantum efficiency,
92%peak@650nm,
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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

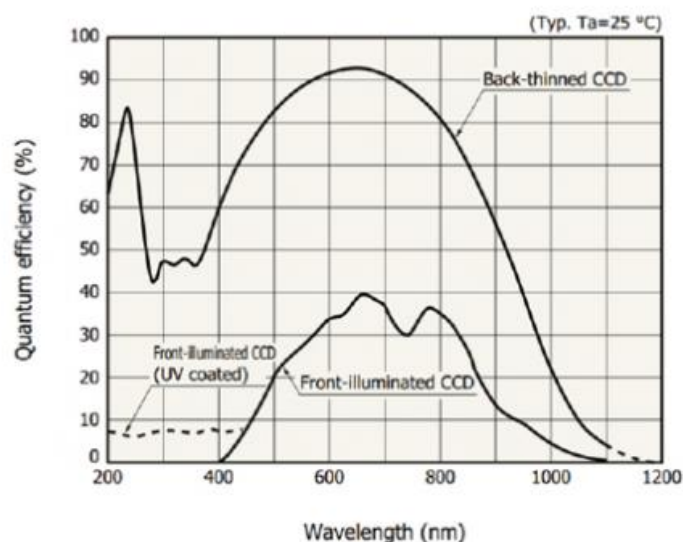
Detect absorption, transmittance and reflection Spectrum



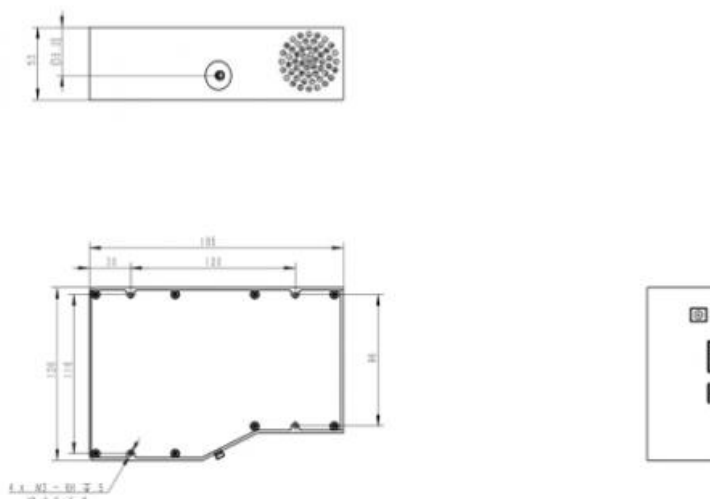
Light source and laser wavelength characterization



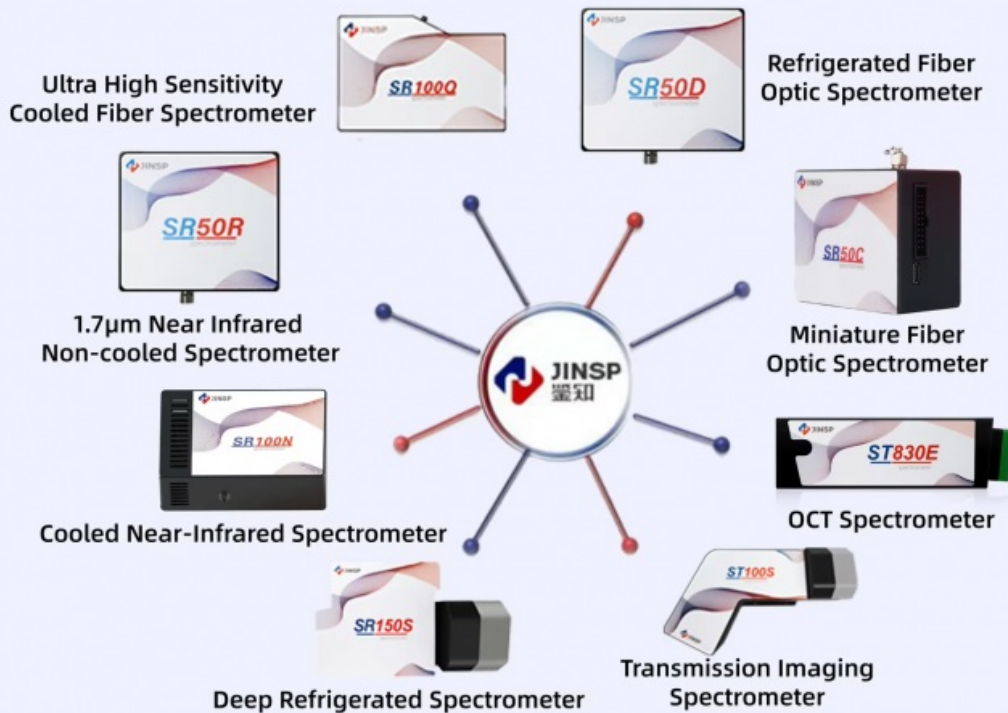
OEM product module: Fluorescence spectrum, Raman spectrum, etc.



CCD Quantum Efficiency Curve



Spectrometer Series



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 Raman Spectroscopy for many years.

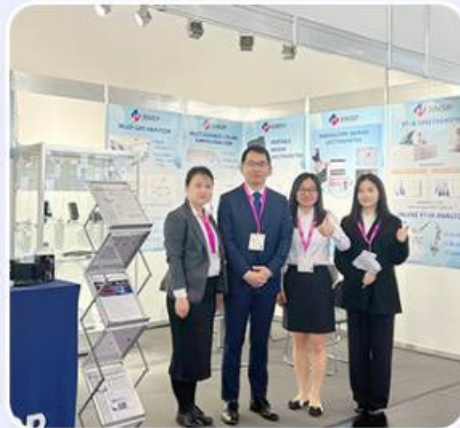
Our products mostly include:

- 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



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.



JINSP Company Ltd.



8618620854039



phoebeyu@jinsptech.com



spectralanalyser.com

21st Floor, Building D, Tsinghua Tongfang Science and Technology Plaza, Haidian District, Beijing China