

Research Grade SR100Q CCD Fiber Optic Spectrometer Light Weight

Our Product Introduction

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Basic Information

- Place of Origin: CHINA
- Brand Name: JINSP
- Certification: CE
- Model Number: SR100Q
- Minimum Order Quantity: 1
- Price: Negotiable
- Packaging Details: Customized Packaging
- Delivery Time: 50-70working days
- Payment Terms: T/T, Western Union
- Supply Ability: 50PCS/70-90 days



Product Specification

- Weight: 1200g
- Key Features: High Signal-to-noise Ratio
- Chip Type: Area Array Back-illuminated Refrigeration, Hamamatsu S7031
- Focal Length: $\leq 100\text{mm}$
- Operating Current: $< 3.5\text{A}$
- Humidity: 0~90%RH
- Dimensions: 180 Mm× 120 Mm× 50 Mm
- Entrance Slit Width: 10 μm 25 μm 50 μm 100 μm 200 μm
- Highlight: **CCD Fiber Optic Spectrometer,
Research grade ccd based spectrometer,
Fiber Optic Spectrometer light Weight**

Product Description

Research-grade SR100Q CCD 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. SR100Q offers multiple spectrum ranges to cover the applications of ultraviolet, visible light, and the near-infrared band, such as fluorescence, absorption, and the Raman spectrum.



Features:

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

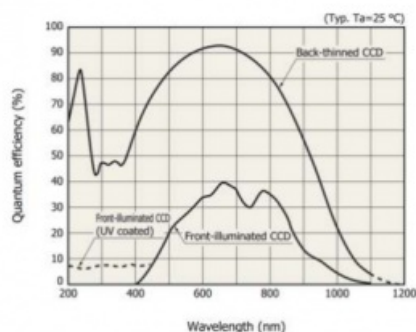
Low-noise and high-speed circuit: USB3.0

Detect absorption, transmittance and reflection SpectrumLight source and laser wavelength characterization

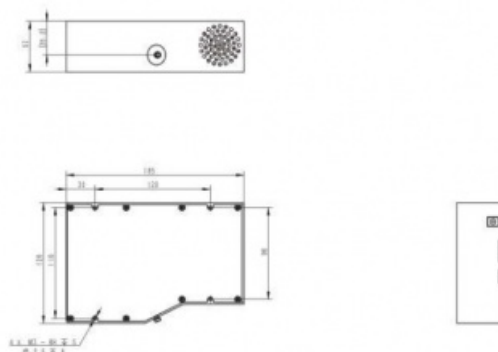
OEM product module: Fluorescence spectrum, Raman spectrum, etc.

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



Installation dimension drawing

List of Product Models

S	R	100	Q	-	GXX	-	25
							Classification of Different Spectral Ranges
							Slit Width (μm)

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 Parameters:

Product Attribute	Value
Spectrometer Type	SR100Q CCD Fiber Optic Spectrometer
Chip type	Area array back-illuminated refrigeration, Hamamatsu S7031
Focal length	≤100mm
Dimensions	180mm*120mm*50mm
Data output interface	USB3.0, RS232, RS485, 20pin connector
Entrance slit width	10μm ,25μm ,50μm ,100μm ,200μm
Weight	1200g



Applications:

- Absorption, transmittance and reflectance detection

- Light source and laser wavelength detection
 - OEM product module:
- Fluorescence spectrum analysis
Raman spectroscopy - petrochemical monitoring, food additive testing

Company Profile



FAQ:

Q1: What is the brand name of this product?

A1: The brand name of this product is JINSP.

Q2: What is the model number of this product?

A2: The model number of this product is SR100Q CCD Fiber Optic Spectrometer.

Q3: Where is this product made?

A3: This product is made in China.

Q4: Is the price of this product negotiable?

A4: Yes, the price of this product is negotiable.

Q5: What are the payment terms for this product?

A5: The payment terms for this product are T/T and Western Union.



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