

Near Infrared Spectrometer 900nm-2500nm Wavelength Range Modular Fiber Optic Spectrometer

Our Product Introduction

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Basic Information

- Place of Origin: CHINA
- Brand Name: JINSP
- Certification: ISO9001
- Model Number: SR100N25
- Minimum Order Quantity: 1
- Price: Negotiable
- Packaging Details: International Shipping Package
- Delivery Time: 30-40 working days
- Payment Terms: T/T, Western Union
- Supply Ability: 200PCS 30-40 days



Product Specification

- Type: Refrigerated Linear Array InGaAs
- Effective Pixel: 512
- Sensing Area: 12.8mm*0.5mm
- Wavelength Range: 900nm-2500nm
- Optical Design: F/4 Cross-type
- Optical Resolution: 6.3nm(@25μm)
- Highlight: 900~2500nm Fiber Spectrometer,
Near infrared Fiber Spectrometer,
2500nm Fiber Spectrometer



More Images



Product Description

SR100N25 Cooled Near-Infrared Spectrometer

The JINSP SR100N25 near-infrared refrigerated spectrometers are versatile instruments with applications spanning a broad wavelength range of 0.9 to 1.7 μ m or 0.9 to 2.5 μ m, respectively. These spectrometers are equipped with integrated light filters that effectively screen out visible light and remove high-order modes. Additionally, they feature a cooled 512-pixel area array InGaAs sensor, ensuring high resolution and minimal stray of light. These spectrometers are suitable for detecting near-infrared spectra through transmission, reflection, or absorption methods.

Technical Specifications:

Detector	Type	Refrigerated linear array InGaAs
	Effective Pixel	512
	Pixel Size	25 μ m*500 μ m
	Sensing Area	12.8mm*0.5mm
Optical Parameters	Wavelength Range	900nm-2500nm
	Optical Resolution	6.3nm(@25 μ m)
	Optical Design	F/4 cross-type
	Numerical Aperture	0.14
	Focal Length	100mm
	Entrance Slit Width	5 μ m ,10 μ m ,25 μ m ,50 μ m (customizable)
	Incident Light Interface	SMA905 fiber interface, free space
Electrical Parameters	Integration Time	1ms-200ms
	Data Output Interface	USB2.0 ,UART
	ADC Bit Depth	16-bit
	Power Supply	DC4.9 to 5.1V(type @5V)
	Operating Current	3A
	Operating Temperature	10°C~40°C
	Storage Temperature	-20°C~60°C
	Operating Humidity	90%RH (no condensation)
Physical Parameters	Dimensions	178mm*123mm*49mm
	Weight	1.2kg

Typical Applications:

Moisture content measurement and wastewater testing
Substance detection such as fat, oil, protein and fiber
Grain and fodder quality testing
Identification of illegal drugs components

Technical Characteristics:

512 pixels, cooled type, high resolution, low stray of light
Receive SMA905 fiber input to obtain free space optical
Compatible with USB or UART interface to output measured spectrum data
Lens surface is plated with gold film, high efficiency of near-infrared reflection

Cooled Near-Infrared Spectrometer

Cooling type / Long exposure Low noise

SR100N25



Typical Applications



Moisture content measurement and wastewater testing



Substance detection such as fat, oil, protein and fiber



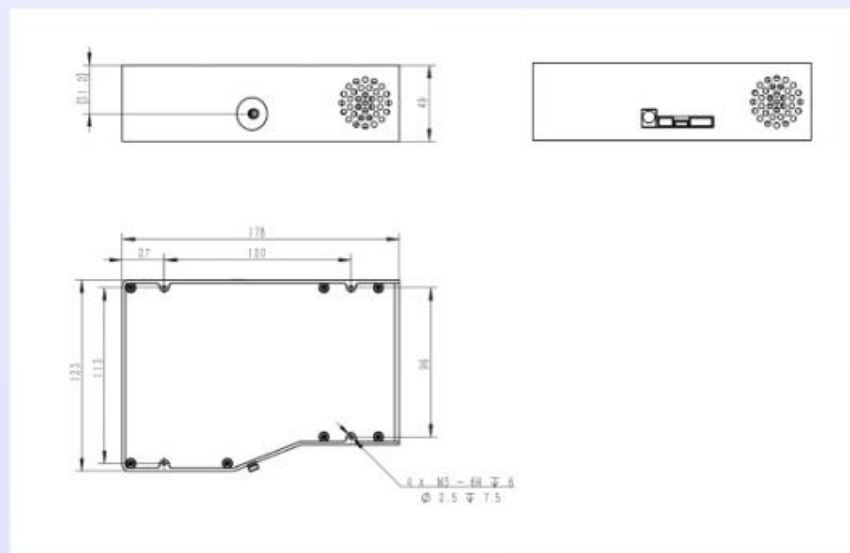
Grain and fodder quality testing



Identification of illegal drugs components

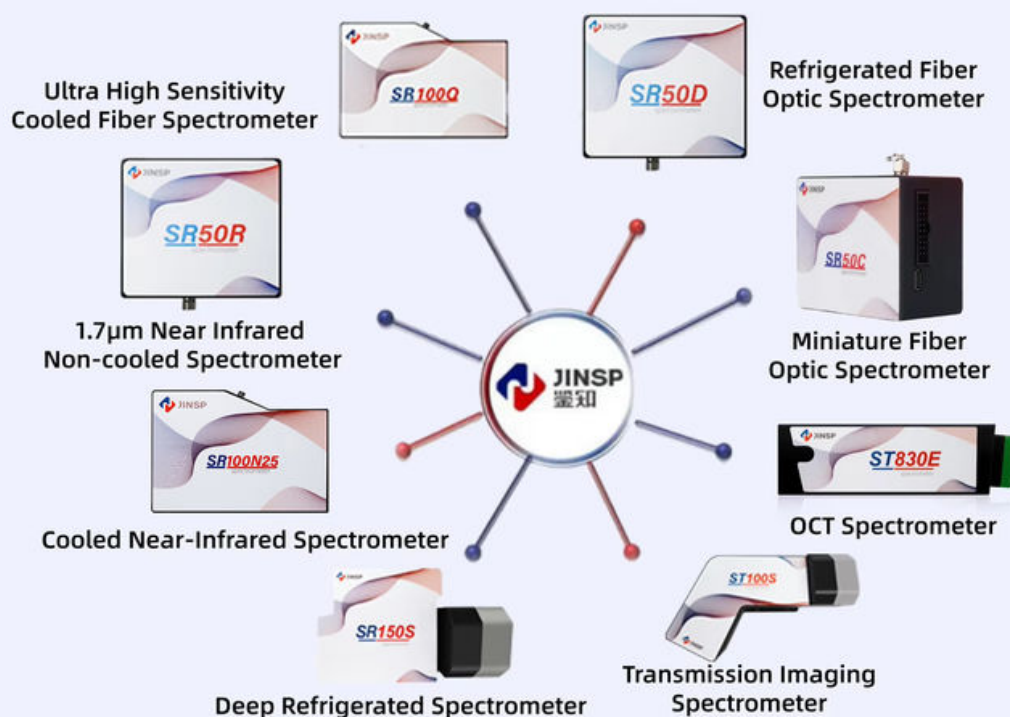
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- ◆ Compatible with USB or UART interface to output measured spectrum data
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Installation dimension drawing

Spectrometer Series



Company Introduction:

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

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

A: 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.

Q: Can you offer an operation training?

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

Q: What's your website?

A: You can visit: www.jinsptech.com

Q: What about your quality assurance?

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



JINSP

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