

## High-Efficiency Near-Infrared Fiber Spectrometer for Accurate Spectral Detection

Our Product Introduction

for more products please visit us on [spectralanalyser.com](http://spectralanalyser.com)

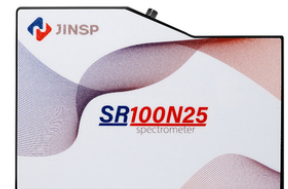
### Basic Information

- 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 working days



### Product Specification

- Measurement Range: 900nm~2500nm
- Wavelength Repeatability:  $\pm 0.05$  Nm
- Type: Refrigerated Linear Array InGaAs
- Sensing Area: 12.8mm\*0.5mm
- Entrance Slit Width: 5 $\mu$ m, 10 $\mu$ m, 25 $\mu$ m, 50 $\mu$ m (customizable)
- Incident Light Interface: SMA905 Fiber Interface, Free Space
- Highlight: **Accurate Spectral Detection Fiber Spectrometer , High Efficiency Fiber Spectrometer, Near Infrared Fiber Spectrometer**



### More Images



## Product Description

### SR100N25 900nm - 2500nm 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 $\mu$ m or 0.9 to 2.5 $\mu$ 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 $\mu$ m*500 $\mu$ m
	Sensing Area	12.8mm*0.5mm
Optical Parameters	Wavelength Range	900nm-2500nm
	Optical Resolution	6.3nm(@25 $\mu$ m)
	Optical Design	F/4 cross-type
	Numerical Aperture	0.14
	Focal Length	100mm
	Entrance Slit Width	5 $\mu$ m ,10 $\mu$ m ,25 $\mu$ m ,50 $\mu$ 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

#### 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

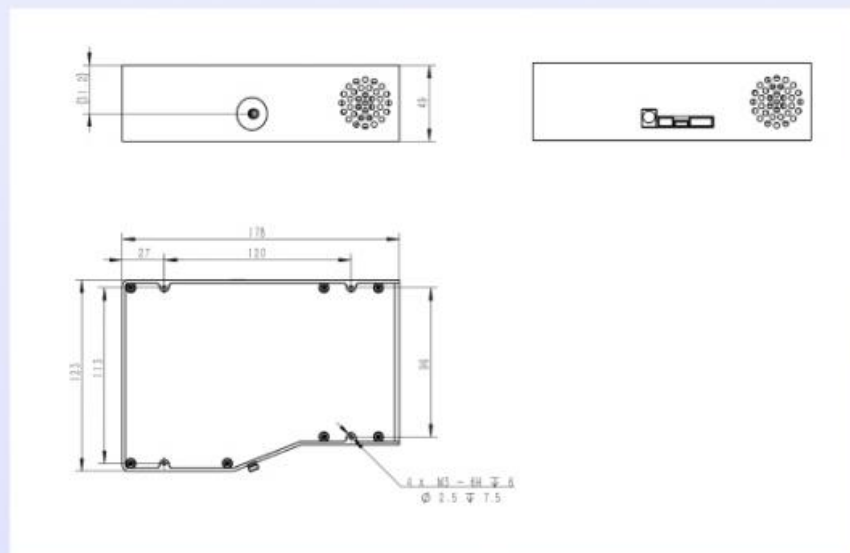
#### Typical Applications:

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

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Installation dimension drawing

# Typical Applications

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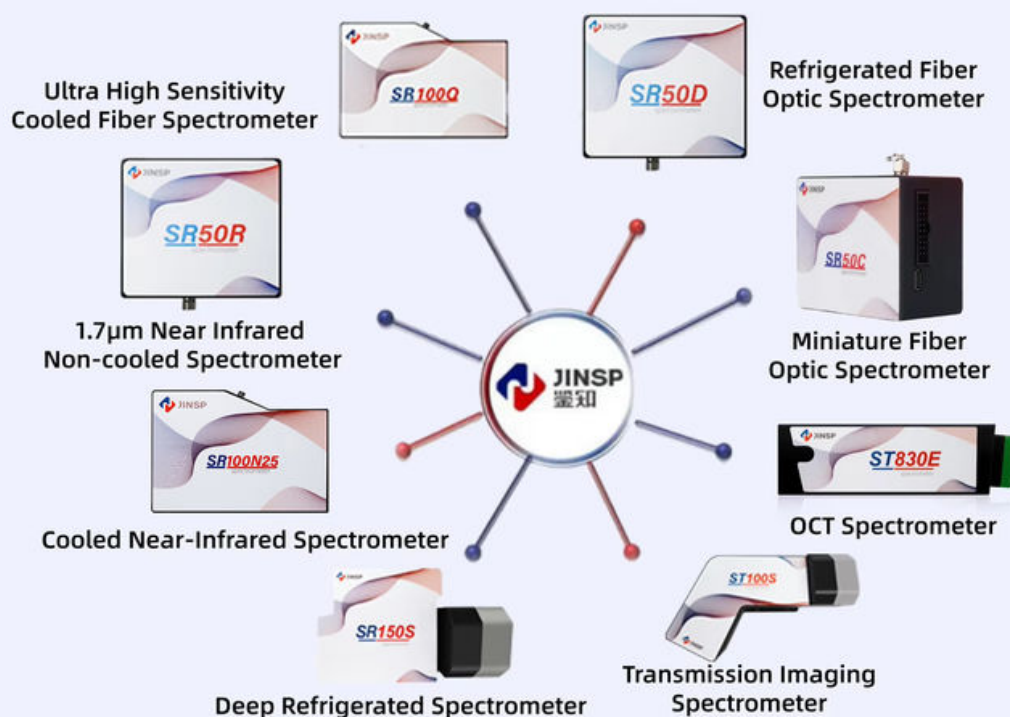


Grain and fodder quality testing



Identification of illegal drugs components

# Spectrometer Series



## Company Profile and Exhibition:

JINSP Company Limited originates from Tsinghua University and has 17 years of experience in developing spectroscopic technology. As a leading supplier of spectroscopic technology, JINSP Technology offers over twenty spectroscopic products across various fields, including pharmaceutical and chemical industries, public security, customs, and fiber optic spectrometers. Our products are available nationwide and are exported to over 30 countries, with cumulative sales exceeding 3,000 units.

## 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





**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](http://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 Company Ltd.**



8618620854039



[phoebeyu@jinsptech.com](mailto:phoebeyu@jinsptech.com)



[spectralanalyser.com](http://spectralanalyser.com)

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