

## High-Performance Near-infrared Fiber Spectrometer Modular Design for Precise Spectral Measurements

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: CE
- Model Number: SR50R
- Minimum Order Quantity: 1
- Price: Negotiable
- Packaging Details: International Shipping Package
- Delivery Time: 30-50working days
- Payment Terms: T/T, Western Union
- Supply Ability: 100 PCS/70-90 days



### Product Specification

- Effective Pixels: 128 (256 Optional)
- Cell Size: 50μm\*250μm
- Sensitive Area: 6.4mm\*0.25mm
- Data Output Interface: USB2.0, UART
- Wavelength Accuracy: ±0.3 Nm
- Measurement Range: 900-1700 Nm
- Spectral Resolution: 0.1 Nm
- Integration Time: 1 Ms - 10 S
- Highlight: **High Performance Near-infrared Fiber Spectrometer**  
**Precise Measurements Near-infrared Fiber Spectrometer**



## Product Description

### High-Performance Near-infrared Fiber Modular Spectrometer

The JINSP SR50R17 is a cost-efficient, compact spectrometer designed for the near-infrared range of 900nm to 1700nm. It incorporates a high-sensitivity, high-resolution non-cooled InGaAs sensor. Bundled with a light source, optical fiber, and test holder, this device is well-suited for conducting near-infrared absorption, reflectance, and transmission analyses to determine the optical properties of materials, such as absorption, scattering, and transmission, and to assess material quality and performance. Its competitive pricing also makes it an excellent candidate for industrial NIR spectrometer system integration.

## 1.7 $\mu$ m Near Infrared Non-cooled Spectrometer

High resolution, Compact size, Cost effective

# SR50R



### Features

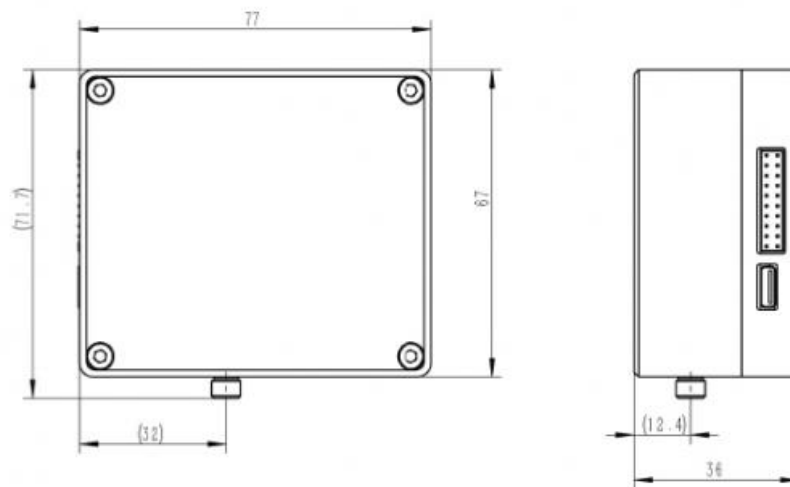
Its petite dimensions and featherweight make it a breeze to carry around and manage.

The gold-coated lens maximizes near-infrared reflectance, guaranteeing performance accuracy and reliability.

It can interface with both USB and UART for spectral data output, allowing for straightforward system/device integration.

# Technical Characteristics

- ✓ Compact and low cost High resolution
- ✓ 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



Installation dimension drawing

## Technical Parameters

Product Name	Near Infrared Non-cooled Spectrometer
Wavelength Range	900-1700nm
Chip Type	Linear array InGaAs
Entrance Slit width	5μm, 10μm, 25μm, 50μm (customizable)
Incident Light interface	SMA905, free space
Integration Time	1ms-5s
Operating Humidity	<90%RH (no condensation)
Dimensions	77mm*67mm*36mm
Weight	0.4KG

## Applications

Moisture content measurement, waste water testing  
Detection of substances such as fat, oil, protein, fiber etc.  
Grain and fodder quality testing  
Measurement of pharmaceutical mixture components

## Typical Applications



*Moisture content measurement,  
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*Detection of substances such  
as fat, oil, protein, fiber, etc.*



*Grain and fodder quality testing*

*Measurement of pharmaceutical  
mixture components*

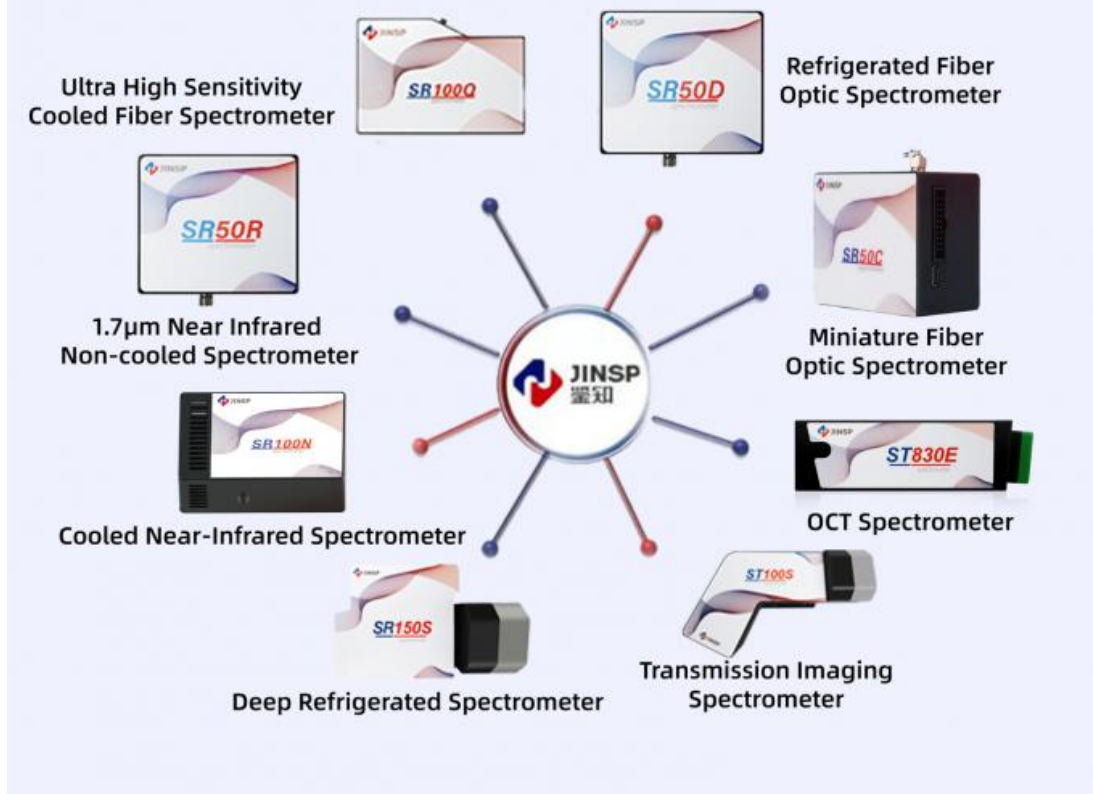


## Support and Services

The Near infrared spectrometer provides high-performance spectral measurements in a portable and affordable package. Our product technical support and services include:

- Expert technical assistance and troubleshooting
- Comprehensive product documentation and user manuals
- Software updates and upgrades

# Spectrometer Series



## Company Profile and Exhibition

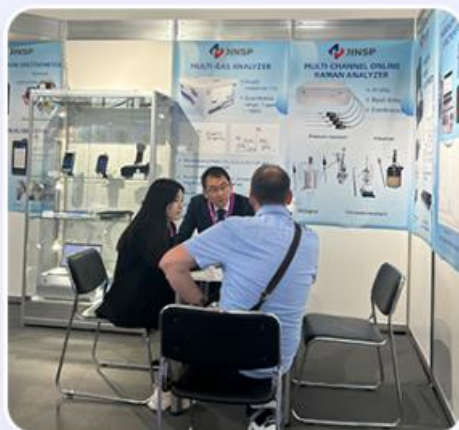
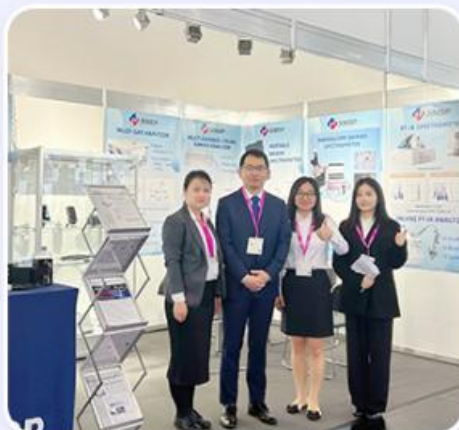
JINSP Company Limited originates from Tsinghua University and has 17 years of experience in developing spectroscopic technology. As a leading supplier of spectroscopic technology, JINSP Technology offers over twenty spectroscopic products across various fields, including pharmaceutical and chemical industries, 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.



# Company Profile



# Exhibition



## 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:** How to receive a best price in the shortest time?

**A3:** When you send us an inquiry, please kindly offer details with wavelength, detector, effective pixels, focal length and so on. We will send you quotation with details soon to your email.

**Q4:** If the spectrometer has problem in my place, how could I do?

**A4:** The spectrometer has one year warranty. If it breaks down, our technician will figure out what the problem maybe, according to client's feedback. We can repair for free within one year warranty.

**Q5:** Which payment can be acceptable ?

**A5:** We could accept the payment by T/T, Paypal, Western Union, L/C, etc.



**JINSP Company Ltd.**

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