

## Customizable Near IR Spectrometer 900-1700 nm Range For Accurate And 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: Customized Packaging
- Delivery Time: 30-50working days
- Payment Terms: T/T, Western Union
- Supply Ability: 100 PCS/70-90 days



#### Product Specification

- Wavelength Range: 900nm-1700 Nm
- Effective Pixels: 128 (256 Optional)
- Optical Resolution: 6.5nm (@25µm)
- Cell Size: 50µm\*250µm
- Sensitive Area: 6.4mm\*0.25mm
- Data Output Interface: USB2.0, UART
- Interface: SMA905 fiber Interface, Free Space
- Integration Time: 1ms - 10 S
- Highlight: **Accurate Near IR Spectrometer,  
Customizable Near IR Spectrometer,  
Spectral Measurements Near IR Spectrometer**



#### More Images



## Product Description

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

The JINSP SR50R17 is a compact and economical near-infrared spectrometer that operates in the 900nm to 1700nm range, featuring a non-cooled InGaAs sensor with excellent sensitivity and resolution. It comes with a light source, optical fiber, and test holder, making it ideal for measuring near-infrared absorption, reflectance, and transmission to analyze materials' optical properties, such as absorption, scattering, and transmission, and to evaluate their quality and performance. Its competitive cost also positions it well for integration into industrial NIR spectrometer systems.

#### Technical Parameters

Detector	Type	Linear array InGaAs
	Effective Pixel	128 (256 optional)
	Pixel Size	50μm*250μm
	Sensing Area	6.4mm*0.25mm
Optical Parameters	Wavelength Range	900nm-1700nm
	Optical Resolution	6.5nm (@25μm)
	Entrance Slit Width	5μm, 10μm, 25μm, 50μm (customizable)
	Incident Light Interface	SMA905 fiber interface, free space
Electrical Parameters	Integration Time	1ms-5s
	Data Output Interface	USB2.0, UART
	ADC Bit Depth	16-bit
	Power Supply	5V
	Operating Current	<1A
	Operating Temperature	10°C~40°C
	Storage Temperature	-20°C~60°C
Physical Parameters	Operating Humidity	90%RH (no condensation)
	Dimensions	77mm*67mm*36mm
	Weight	0.4kg

#### Technical Features:

Lightweight and small in size, this device is easy to carry and handle.

The gold-coated lens provides excellent near-infrared reflectance, ensuring dependable and accurate operation.

It can be connected via USB or UART to share spectral data, which simplifies its incorporation into various systems and equipment.

#### Typical 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

#### 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

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

High resolution, Compact size, Cost effective

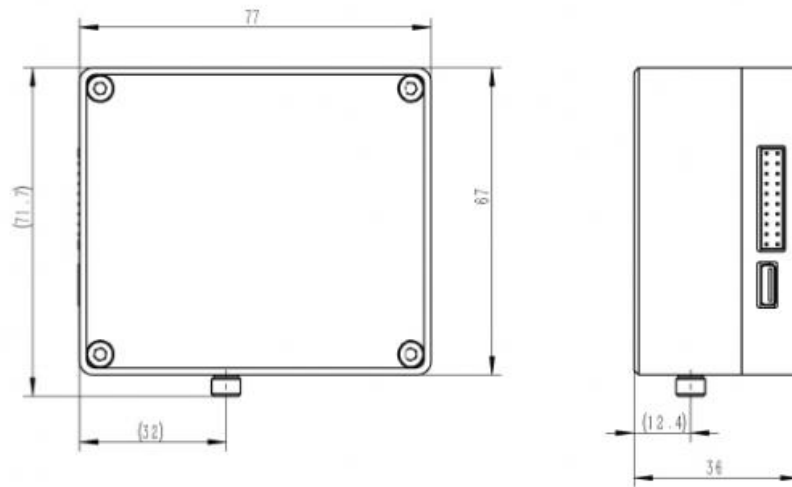
## **SR50R**



# 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

# Typical Applications

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*Moisture content measurement,  
wastewater testing*

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

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*Grain and fodder quality testing*

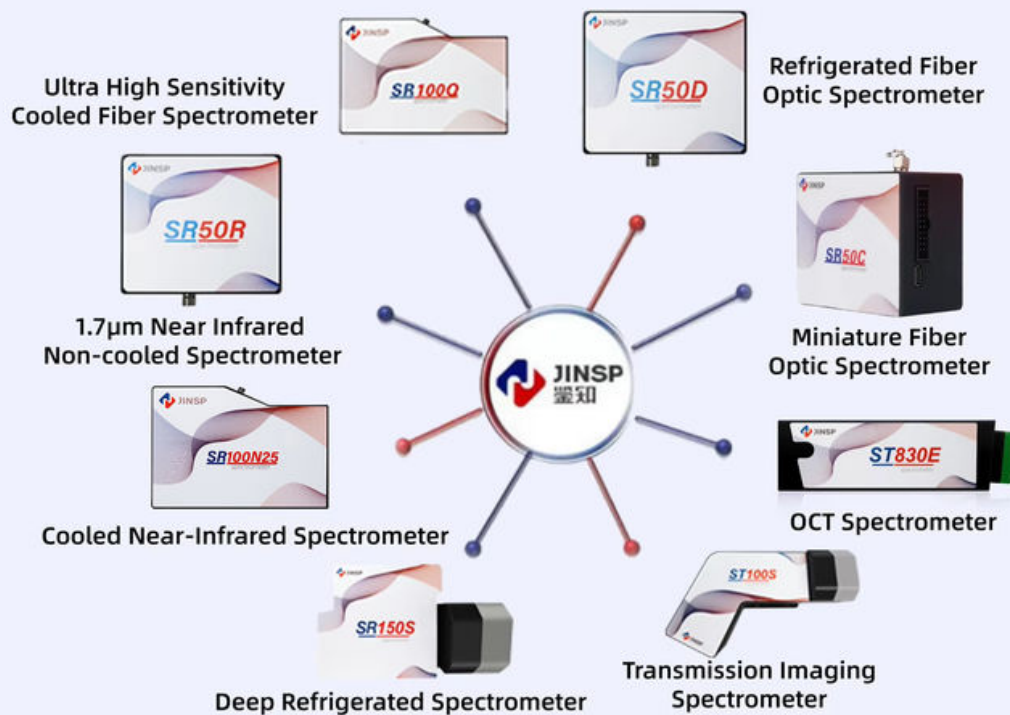
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*Measurement of pharmaceutical  
mixture components*

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# Spectrometer Series



## Company Introduction:

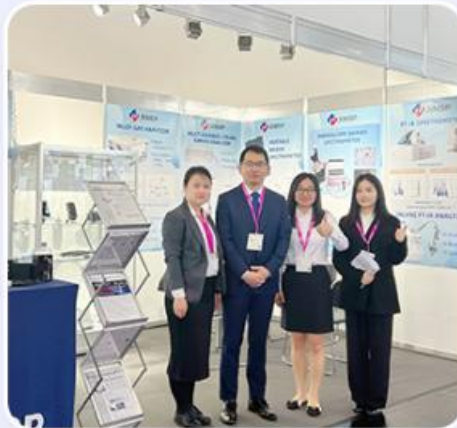
JINSP Company Limited originates from Tsinghua University and has 17 years of experience in developing spectroscopic technology. As a leading supplier of spectroscopic technology, JINSP Technology offers over twenty spectroscopic products across various fields, including pharmaceutical and chemical industries,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



# 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: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

**JINSP Company Ltd.**



8618620854039



phoebeyu@jinsptech.com



spectralanalyser.com

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