

Modular Near-infrared Fiber Spectrometer Supports USB And UART For Exporting Spectral Data

Our Product Introduction

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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

- 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: **USB Near-infrared Fiber Spectrometer, Modular near ir spectrometer, UART Near-infrared Fiber Spectrometer**



More Images



Product Description

High-Performance Near-infrared Fiber Modular Spectrometer

The JINSP SR50R17 spectrometer offers a compact and cost-effective approach to near-infrared spectroscopy, covering the 900nm to 1700nm range. It includes a non-cooled InGaAs sensor that provides high sensitivity and resolution. Equipped with a matching light source, optical fiber, and testing rack, this device is highly suitable for near-infrared absorption, reflection, and transmission measurements to analyze the optical properties of materials, including absorption, scattering, and transmission, and evaluate the quality and performance of materials. Its competitive price also makes it an ideal choice for industrial NIR spectrometer system integration.

1.7 μ m Near Infrared Non-cooled Spectrometer

High resolution, Compact size, Cost effective

SR50R



Features

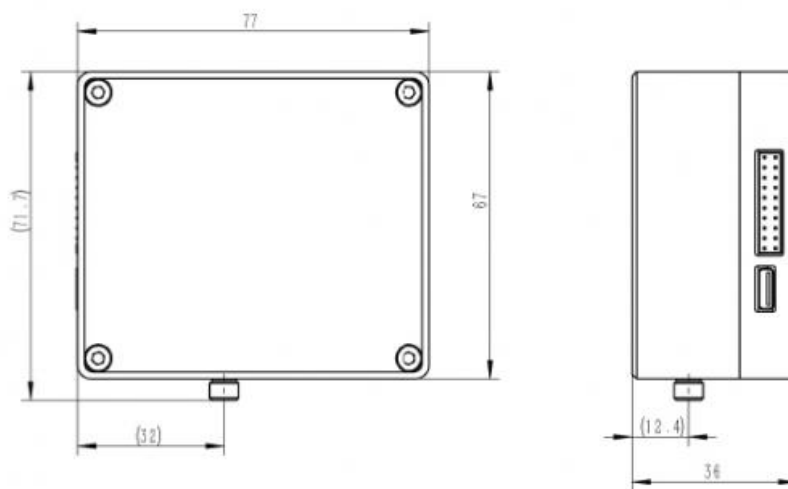
The unit's small size and light weight make it highly portable and simple to manage.

The gold-coated lens offers superior near-infrared reflectance, ensuring precise and reliable performance.

It is designed to work with USB or UART for spectral data output, facilitating seamless integration into a variety of systems and devices.

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,
wastewater testing*

*Detection of substances such
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Grain and fodder quality testing

*Measurement of pharmaceutical
mixture components*

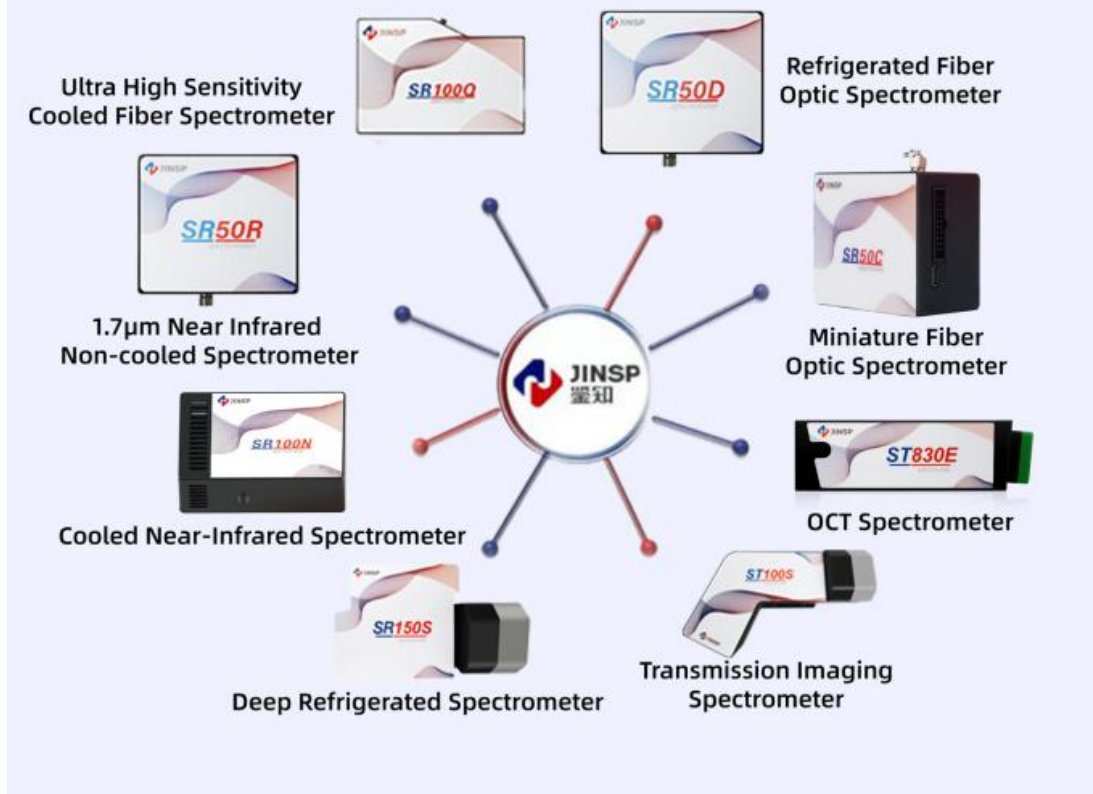


Support and Services

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



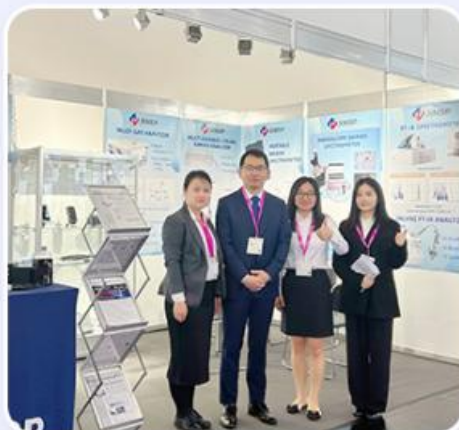
Company Profile and Exhibition

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.



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