

InGaAs Sensor Nir Spectrometer Modular Near-infrared Fiber Spectrometer For Customizable Spectroscopy Measurement

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

- Measurement Range: 900nm-1700 Nm
- Wavelength Accuracy: ± 0.3 Nm
- Spectral Resolution: 0.1 Nm
- Effective Pixels: 128 (256 Optional)
- Cell Size: $50\mu\text{m} \times 250\mu\text{m}$
- Sensitive Area: $6.4\text{mm} \times 0.25\text{mm}$
- Incident Light Interface: SMA905 Fiber Interface, Free Space
- Dimensions: $77\text{mm} \times 67\text{mm} \times 36\text{mm}$
- Highlight: **Modular Near-infrared Fiber Spectrometer, InGaAs Sensor Nir Spectrometer, Customizable Spectroscopy Measurement Nir Spectrometer**



More Images



Product Description

InGaAs Sensor NIR Spectrometer - Modular Near-infrared Fiber Spectrometer

Compact, affordable near-infrared spectroscopy solution (900nm-1700nm) featuring non-cooled InGaAs sensor with superior sensitivity and resolution. Includes light source, optical fiber, and test holder for absorption, reflectance, and transmission measurements.

Key Specifications

| Attribute | Value |
|--------------------------|------------------------------------|
| Measurement Range | 900nm-1700nm |
| Wavelength Accuracy | ±0.3nm |
| Spectral Resolution | 0.1nm |
| Effective pixels | 128 (256 optional) |
| Cell size | 50µm*250µm |
| Sensitive area | 6.4mm*0.25mm |
| Incident Light Interface | SMA905 fiber interface, free space |
| Dimensions | 77mm*67mm*36mm |
| Weight | 0.4KG |

Product Features

- Compact and lightweight design for portability
- Gold-coated lens ensures high near-infrared reflectance for accurate performance
- USB or UART connectivity for spectral data output
- Customizable entrance slit width (5µm, 10µm, 25µm, 50µm)
- Integration time adjustable from 1ms to 5s
- Operates in humidity conditions below 90%RH (no condensation)

Product Images

1.7 μ m Near Infrared Non-cooled Spectrometer

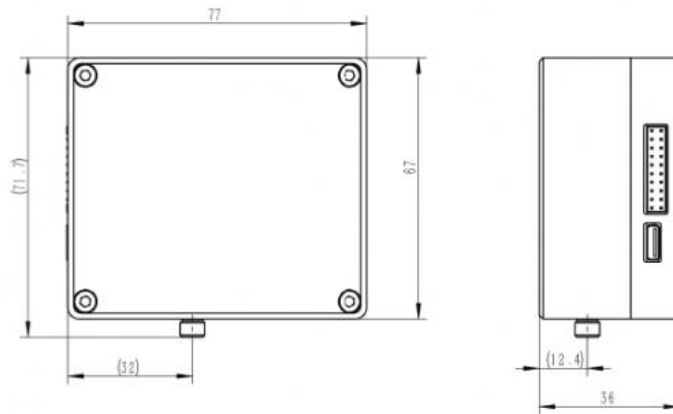
High resolution, Compact size, Cost effective

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



*Moisture content measurement,
wastewater testing*

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

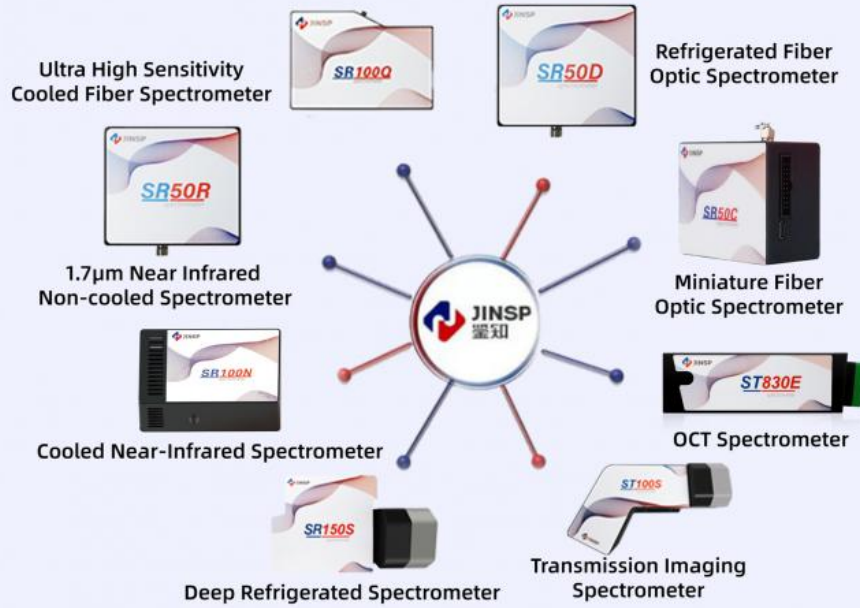


Grain and fodder quality testing

*Measurement of pharmaceutical
mixture components*



Spectrometer Series



Applications

- Moisture content measurement
- Waste water testing and environmental monitoring
- Detection of substances (fat, oil, protein, fiber)
- Grain and fodder quality testing
- Pharmaceutical mixture component measurement

About JINSP

JINSP Company Limited is a professional supplier with over 17 years of experience in spectral detection technology products, including Raman, FT-IR, and LIBS technologies. With 30+ R&D engineers (including 4 Ph.D.), we specialize in personalized product customization to meet diverse customer needs.

Our core technologies have reached international leading positions, with over 200 patent applications. We offer more than twenty spectroscopic products available nationwide and exported to over 30 countries, with cumulative sales exceeding 3,000 units.

Company Profile



Exhibition



Frequently Asked Questions

Q: Is this spectrometer easy to operate for first-time users?

A: We provide an English manual and guide video, plus professional technical support meetings with our technicians.

Q: Do you offer operation training?

A: Training options include at our factory or on-site support from JINSP engineers for installation, training, debugging, and maintenance.

Q: How can I get the best price quickly?

A: Please provide detailed specifications (wavelength, detector, effective pixels, focal length) in your inquiry for an accurate quote.

Q: What if the spectrometer has problems?

A: The spectrometer comes with a one-year warranty. Our technicians will diagnose and repair issues at no cost within warranty.

Q: Which payment methods do you accept?

A: We accept T/T, Paypal, Western Union, L/C, and other standard payment methods.



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