Lightweight Excellent Resolution Fiber Spectrometer Accurate Measurements

Our Product Introduction

Basic Information

- Place of Origin: CHINA
- Brand Name: JINSP
- Certification: CE
- Model Number: ST50S
- Minimum Order Quantity: 1
- Price: Negotiable
- Packaging Details: Customized Packaging
- Delivery Time: 40-70working days
- Payment Terms: T/T, Western Union
- Supply Ability: 100 PCS/70-90 days

Product Specification

- Weight: <4kg (including Camera)
- Product Name: High-Throughput Transmission Imaging Spectrometer Quick And Accurate Measurements
- Package: Not Specified
- Wavelength Range: 1080nm~1330nm
- Product Category: Fiber Optic Spectrometers
- Dimensions: 350.6*150.3*109.7(mm)
- Certifications: Not Specified
- Detector: Line Array CMOS
- Highlight: **Excellent Resolution Fiber Spectrometer**, **Fiber Spectrometer Accurate Measurements**, **Excellent Resolution transmission spectrometer**

Product Description

Throughput Transmission Fiber Spectrometer Diffraction Efficiency of Approximately 90%

Product Description:

This product has the added advantage of being compatible with 1064nm Confocal Raman microscopy, which makes it an ideal choice for researchers in the field of spectroscopy. The High-Throughput Transmission Fiber Spectrometer is also equipped with a Transmission Imaging Spectrometer, which makes it possible to capture high-quality images with excellent resolution.
The Width of the Incident Slit is another impressive feature of this product, providing users with two options, 6 Cm-1 (25 μm) and 8 Cm-1(50 μm). This feature enables users to customize the spectrometer to meet their specific needs, making it an extremely versatile product.
Despite its impressive capabilities, the High-Throughput Transmission Fiber Spectrometer is incredibly lightweight, weighing less than 4kg, including the camera.

Features:

Product Name: High-Throughput Transmission Fiber Spectrometer
Effective Pixels: 512*1
Dimensions: 350.6*150.3*109.7(mm)
Width Of The Incident Slit: 6 Cm-1 (25 μm)8 Cm-1(50 μm)
Detector: Line Array CMOS
Product Category: Fiber Optic Spectrometers

This High-Throughput Transmission Fiber Spectrometer is a powerful and precise Spectrometer that utilizes a line array CMOS detector to capture high-quality images. With effective pixels of 512*1, it is capable of producing accurate and reliable results. Its compact size, measuring 350.6*150.3*109.7(mm), makes it easy to use and transport, making it an ideal raman portable spectrometer. The Width Of The Incident Slit can be adjusted to 6 Cm-1 (25 μm) or 8 Cm-1(50 μm) to accommodate different applications. This transmission imaging spectrometer is part of the Fiber Optic Spectrometers product category and is perfect for scientific research and industrial applications.

Technical Parameters:

Product Name:	High-Throughput Transmission imaging Spectrometer Quick and Accurate Measurements
Product Category:	Fiber Optic Spectrometers
Cell Size:	25μm*500μm
Optical Resolution:	0.2-2nm
Applications:	Research-grade Raman spectroscopy detection system, 1064nm Confocal Raman microscopy, Integration of industrial Raman system, Chemical Industry Online, Biopharmaceuticals
Width Of The Incident Slit:	6 Cm-1 (25 μm)8 Cm-1(50 μm)
Integration Time:	1ms-3600s
Weight:	<4kg (including camera)

Product Parameters

	Performance Indicators	Parameters
Detector	-	See model table for detailed parameters
Optical Parameters	Wavelength Range	1080nm~1330nm corresponds to 140~1880cm^{-1}
	Optical Resolution	0.35nm, corresponds to 8cm^{-1}(50μm slit) 0.25nm, corresponds to 6cm^{-1}(25μm slit)
	Grating Type	VPH volume holographic transmission grating
	Diffraction Efficiency	>85%
	Fiber Interface	SMA905 or Φ10mm multi-core optical fiber
	Numerical Aperture	0.25
Electrical Parameters	Integration Time	1ms-3600s
	Data Output Interface	USB or serial port
	ADC Bit Depth	16-bit
	Power Supply	DC 5V (±0.5V)
	perating Current	3A
	Operating Temperature	-20°C ~60°C
	Storage Temperature	-30°C ~70°C
	Operating Humidity	<90%RH (no condensation)
Physical Parameters	Dimensions	253mm*152mm*93mm
	Weight	<4kg (including camera)

List of Product Models

S | T | 50 | S | - | X → Classification of different detectors

Product Model	ST50S1	ST50S2
Detector Brand or Model	Hamamatsu Secondary deep cooling InGaAs	AndoriDus InGaAs
Number of Pixels	512*1	512*1
Pixel Size	25μm*500μm	25μm*500μm
Cooling Temperature °C	-20	-80

* Customization available for other ranges

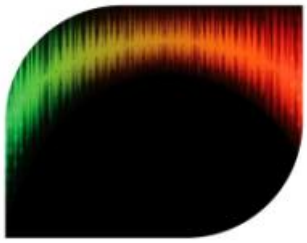
Applications:

The JINSP ST50S High-Throughput Transmission Fiber Spectrometer is a research-grade Raman portable spectrometer that is perfect for various applications in the chemical and biopharmaceutical industries. This Spectrometer features a 1064nm Confocal Raman microscopy, which enables accurate detection and analysis of Raman spectra in real-time.

The ST50S is designed with integration of industrial Raman systems in mind, making it highly suitable for online chemical industry applications. The device is lightweight, weighing less than 4kg (including camera), and compact, with dimensions of 350.6*150.3*109.7(mm).

As a leading supplier of spectroscopic technology, JINSP Technology has over 17 years of experience in developing spectroscopic technology and offers over twenty spectroscopic products across various fields. The ST50S High-Throughput Transmission Fiber Spectrometer is one of the best in the market, and it is available nationwide and exported to over 30 countries, with cumulative sales exceeding 3,000 units.

Typical Applications



Research-grade Raman spectroscopy detection system

1064nm Confocal Raman microscopy

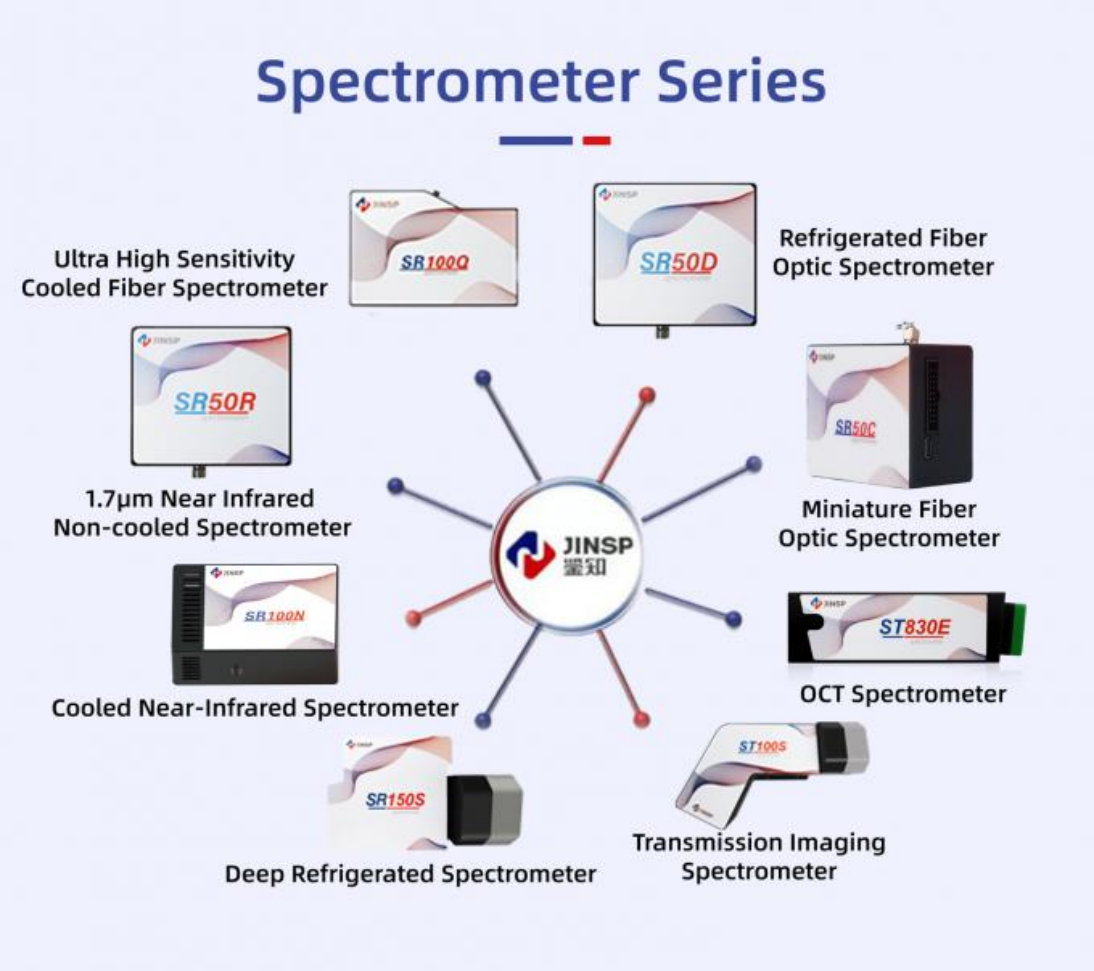
Integration of industrial Raman system

Chemical Industry Online
Biopharmaceuticals

Support and Services:

The High-Throughput Transmission Fiber Spectrometer product technical support and services include:
- Assistance with installation and setup
- Troubleshooting to identify and resolve any issues that may arise
- Regular maintenance and calibration to ensure accurate and reliable measurements
- Software updates and upgrades to improve functionality and performance
- Training and educational resources to help users maximize the potential of the product

Company Profile



Packing and Shipping:

Product Packaging:
Our High-Throughput Transmission Fiber Spectrometer product is carefully packaged to ensure that it arrives at your doorstep in perfect condition. The product is first placed in a sturdy cardboard box and surrounded with foam padding to protect it from any potential damage during transit. The box is then sealed with strong packing tape to prevent it from opening during shipping.

FAQ:

Q: What is the brand name of this spectrometer?
A: The brand name of this spectrometer is JINSP.
Q: What is the model number of this spectrometer?
A: The model number of this spectrometer is ST50S.
Q: Where is this spectrometer manufactured?
A: This spectrometer is manufactured in China.
Q: What is the minimum order quantity for this spectrometer?
A: The minimum order quantity for this spectrometer is 1.
Q: Is the price for this spectrometer negotiable?
A: Yes, the price for this spectrometer is negotiable.
Q: What are the payment terms for this spectrometer?
A: The payment terms for this spectrometer are T/T and Western Union.
Q: What is the supply ability for this spectrometer?
A: The supply ability for this spectrometer is 100 PCS/70-90 days.
Q: What is the delivery time for this spectrometer?
A: The delivery time for this spectrometer is 40-70 working days.
Q: What are the packaging details for this spectrometer?
A: The packaging details for this spectrometer are customized packaging.

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