Transmission Grating Spectrograph Research Grade Raman Spectrometer With Detection System

Our Product Introduction

Basic Information

- Place of Origin: CHINA
- Brand Name: JINSP
- Certification: CE ISO9001
- 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

- Effective Pixels: 512*1
- Product Name: High-Throughput Transmission Imaging Spectrometer Quick And Accurate Measurements
- Fiber Interface: SMA905 Or Φ10mm Multi-core Optical Fiber
- Width Of The Incident Slit: 6 Cm-1 (25 μm)8 Cm-1(50 μm)
- Optical Resolution: 0.2-2nm
- Diffraction Efficiency: Approximately 90%
- Highlight: **Transmission Grating Spectrograph Research Grade** , **Research Grade Raman Spectrometer**, **Detection System Transmission Grating Spectrograph**

Product Description

Transmission grating Research-grade Raman spectrometer with detection system

The High-Throughput Transmission Fiber Spectrometer features a line array CMOS detector with 512*1 effective pixels, providing accurate and reliable data. Its lightweight design, weighing under 4kg (including the camera), makes it easily transportable and ideal for use in the field or in multiple laboratory settings. While certifications are not specified, this product is manufactured to the highest standards of quality and performance.

This spectrometer is an excellent choice for professionals in the chemical industry, biopharmaceuticals, and other fields that require precise and efficient Raman detection and analysis. Its ability to integrate with industrial Raman systems makes it a valuable asset in production and manufacturing environments, while its compatibility with 1064nm Confocal Raman microscopy ensures accurate and reliable data for research and analysis.

JINSP

Features:

Product Name: High-Throughput Transmission Fiber Spectrometer
Effective Pixels: 512*1
Diffraction Efficiency: Approximately 90%
Dimensions: 350.6*150.3*109.7(mm)
Integration Time: 1ms-3600s
Detector: Line Array CMOS
Transmission Imaging Spectrometer
VPH volume holographic transmission grating
Transmission Imaging Spectrometer

Technical Parameters:

Product Name	High-Throughput Transmission imaging Spectrometer Quick and Accurate Measurements

Applications	Research-grade Raman spectroscopy detection system, 1064nm Confocal Raman microscopy, Integration of industrial Raman system, Chemical Industry Online, Biopharmaceuticals
Dimensions	350.6*150.3*109.7(mm)
Wavelength Range	1080nm~1330nm
Integration Time	1ms-3600s
Detector	Line Array CMOS
Effective Pixels	512*1
Spectrometer	VPH volume holographic transmission grating

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

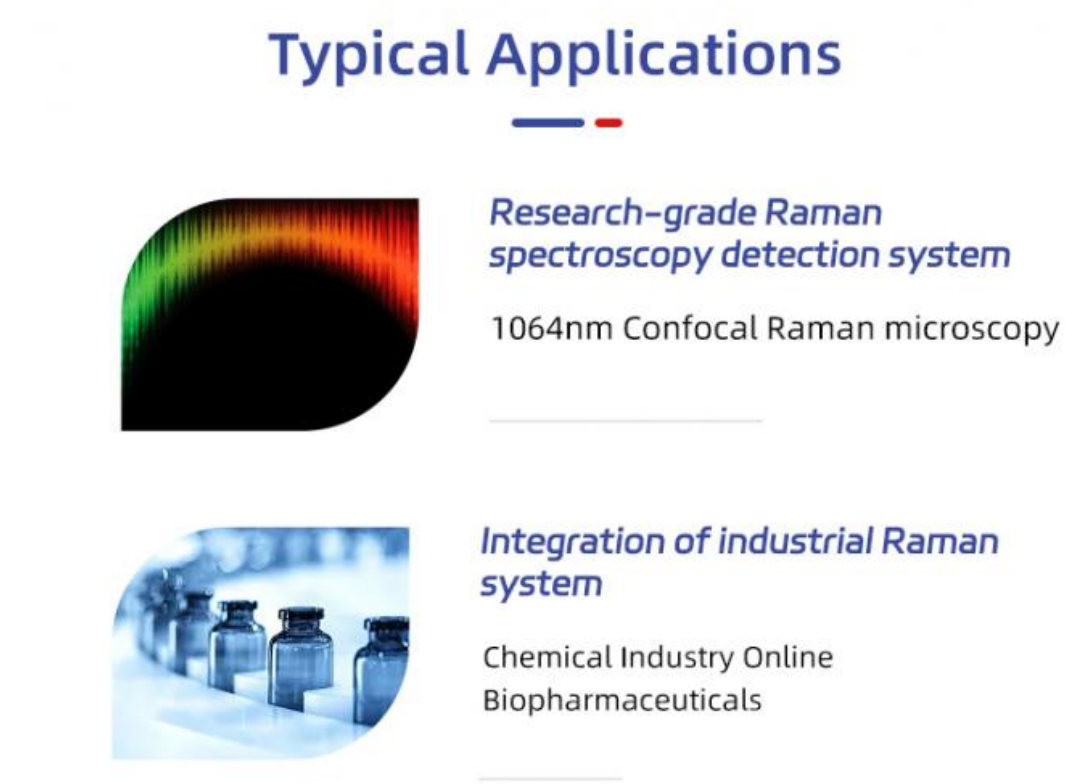
Product Model	ST50S1	ST50S2
Detector Brand or Model	Hamamatsu Secondary deep cooling InGaAs	AndoriDus InGaAs
Number of Pixels	512*1	512*1
Pixel Size	25μm*500μm	25μm*500μm
Cooling Temperature ℃	-20	-80

* Customization available for other ranges

Applications:

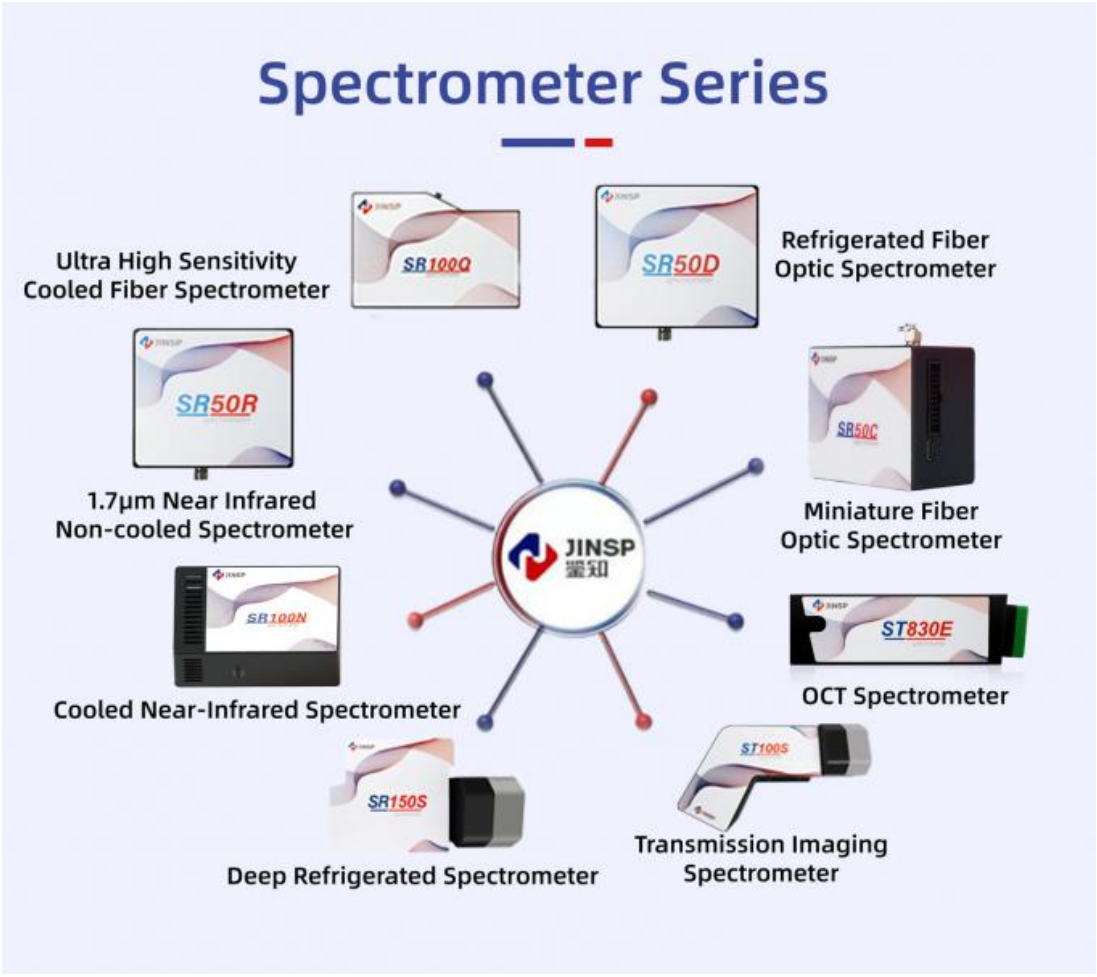
One of the main applications of this product is in Raman systems. The JINSP ST50S is a research-grade Raman spectroscopy detection

system that delivers quick and accurate measurements, making it ideal for use in a wide range of research applications. It is designed to provide high-resolution spectra with excellent signal-to-noise ratios, making it perfect for the most demanding research applications. Another key application for this product is in transmission imaging spectrometry. With its high-throughput design, this spectrometer allows for rapid data acquisition, making it ideal for applications where speed is critical. It is also highly flexible, with a customizable interface that allows for easy integration with other equipment and software.



Support and Services:

The High-Throughput Transmission Fiber Spectrometer product comes with technical support and services to ensure optimal performance and customer satisfaction. Our team of experts is available to assist with any technical issues that may arise, including troubleshooting and maintenance. In addition, we offer training sessions to help customers with product operation and data analysis. Our services also include calibration and firmware updates to ensure accurate and up-to-date measurements. We are committed to providing timely and effective support to our customers.


Spectrometer Series
Ultra High Sensitivity
Cooled Fiber Spectrometer
SR100Q
SR50D
Refrigerated Fiber
Optic Spectrometer
SR50R
1.7μm Near Infrared
Non-cooled Spectrometer
SR50C
Miniature Fiber
Optic Spectrometer
JINSP
SR100N
Cooled Near-Infrared Spectrometer
ST830E
OCT Spectrometer
SR150S
Deep Refrigerated Spectrometer
ST100S
Transmission Imaging
Spectrometer

Packing and Shipping:

Product Packaging:
The High-Throughput Transmission Fiber Spectrometer will be packaged in a sturdy cardboard box with foam inserts to prevent damage during shipping. The spectrometer will be wrapped in protective material to prevent scratches and other damage during transit.
Shipping:
The product will be shipped via a reliable courier service, such as UPS or FedEx, and will be fully insured. Customers will receive a tracking number to monitor the shipment's progress. Shipping costs will vary depending on the destination and shipping method chosen.

Package

Packaging Box

ST90S

Internal Packaging

Certifications

FAQ:

Q: What is the JINSP ST50S High-Throughput Transmission Fiber Spectrometer?

A: The JINSP ST50S is a high-throughput transmission fiber spectrometer that can be used for various analytical applications, including chemical analysis, material identification, and quality control.
Q: Where is the JINSP ST50S High-Throughput Transmission Fiber Spectrometer manufactured?
A: The JINSP ST50S is manufactured in China.
Q: What is the minimum order quantity for the JINSP ST50S High-Throughput Transmission Fiber Spectrometer?
A: The minimum order quantity for the JINSP ST50S is 1 unit.
Q: What are the payment terms for purchasing the JINSP ST50S High-Throughput Transmission Fiber Spectrometer?
A: The payment terms for purchasing the JINSP ST50S include T/T and Western Union.
Q: What is the delivery time for the JINSP ST50S High-Throughput Transmission Fiber Spectrometer?
A: The delivery time for the JINSP ST50S is 40-70 working days.

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