

## High Throughput Transmission Spectrometer Quick And Accurate 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: 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

- Wavelength Range: 1080nm~1330nm
- Detector: Line Array CMOS
- Effective Pixels: 512\*1
- Cell Size: 25μm\*500μm
- Optical Resolution: 0.2-2nm
- The Width Of The Incident Slit: 6 Cm-1 (25 μm) 8 Cm-1 (50 μm)
- Highlight: **High Throughput Transmission Spectrometer, Transmission Spectrometer Quick Measurements**  
,  
**Quick Measurements transmission spectrophotometer**

## Product Description

High-Throughput Transmission imaging Spectrometer Quick and Accurate Measurements

The JINSP ST50S transmission imaging spectrometer features a VPH (volume-phase holographic) transmission grating with an impressive diffraction efficiency of approximately 90%, surpassing the efficiency of traditional reflection-blazed gratings by 2 to 4 times. It is coupled with a Hamamatsu 2-step refrigeration InGaAs sensor, ensuring exceptionally high sensitivity and signal-to-noise ratio (SNR) in the near-infrared spectrum. With its exceptional optical design, this spectrometer achieves twice the resolution compared to standard spectrometers.



## Features

Can substitute and surpass traditional research-grade InGaAs spectrometers for high-sensitivity requirements in 1064nm Raman spectroscopy detection systems, making it an excellent configuration. It possesses high stability and a compact volume, making it suitable for integration into industrial equipment.

### Technical Parameters

Product Name	ST50S Transmission Imaging Spectrometer
Wavelength Range	1080nm~1330nm corresponds to 140~1880cm <sup>-1</sup>
Optical Resolution	0.35nm, corresponds to 8cm <sup>-1</sup> (50μm slit) 0.25nm, corresponds to 6cm <sup>-1</sup> (25μm slit)
Grating Type	VPH volume holographic transmission grating
Diffraction Efficiency	Diffraction Efficiency
Fiber Interface	SMA905 or Φ10mm multi-core optical fiber
Integration Time	1ms-3600s
Dimensions	350.6*150.3*109.7(mm)
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 <sup>-1</sup>
	Optical Resolution	0.35nm, corresponds to 8cm <sup>-1</sup> (50μm slit) 0.25nm, corresponds to 6cm <sup>-1</sup> (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)
	operating Current	3A
	Operating Temperature	-20°C ~60°C
	Storage Temperature	-30°C ~70°C
Physical Parameters	Operating Humidity	<90%RH (no condensation)
	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

We have a complete product line of fiber optic spectrometers, including miniature spectrometers, near-infrared spectrometers, deep

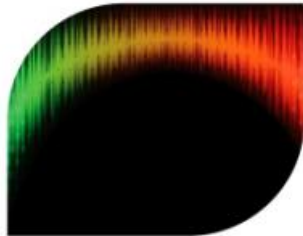
cooling spectrometers, transmission spectrometers, OCT spectrometers, etc. JINSP can fully meet the needs of industrial users and scientific research users. If you want to know more, please contact us.

Some specific scenarios where this product can be used include:

**Research-grade Raman spectroscopy detection system** 1064nm Confocal Raman microscopy

**Integration of industrial Raman system** Chemical Industry Online Biopharmaceuticals

## Typical Applications



### *Research-grade Raman spectroscopy detection system*

1064nm Confocal Raman microscopy

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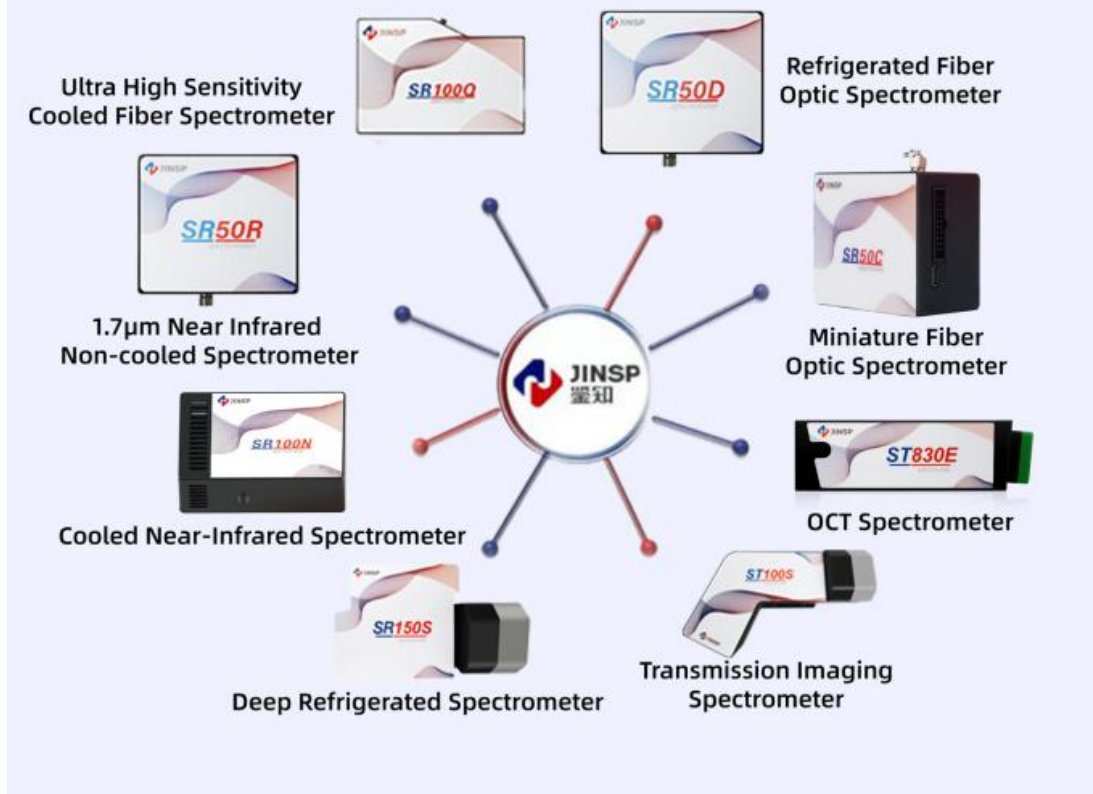
### *Integration of industrial Raman system*

Chemical Industry Online  
Biopharmaceuticals

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## Spectrometer Series

# Spectrometer Series



## Company Profile and Exhibition

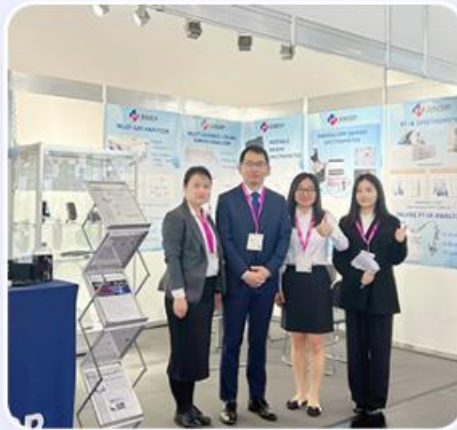
JINSP Company Limited originates from Tsinghua University and has 17 years of experience in developing spectroscopic technology. As a leading supplier of spectroscopic technology, JINSP Technology offers over twenty spectroscopic products across various fields, including pharmaceutical and chemical industries,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



Package

# Package



Packaging Box



ST90S



Internal Packaging

## Certifications

# 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

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