

ST90S Modular Raman Spectrometer Designed for 532nm Raman Applications with 4200 cm^{-1} sup1 Spectral Width

Our Product Introduction

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Basic Information

- Place of Origin: CHINA
- Brand Name: JINSP
- Certification: CE
- Model Number: ST90S
- Minimum Order Quantity: 1
- Price: Negotiable
- Packaging Details: International Shipping Package
- Delivery Time: 60-70 working days
- Payment Terms: T/T, Western Union
- Supply Ability: 100 PCS/60-70working days



Product Specification

- Wavelength Range: 540nm~686nm Corresponds To 260~4200 cm^{-1}
- Grating Type: VPH Volume Holographic Transmission Grating
- Diffraction Efficiency: >85%
- Dimensions: 348.7mm×222.8mm ×126mm
- Weight: <6kg (including Camera)
- Fiber Length: Φ 10mm Multi-core Optical Fiber
- Integration Time: 1ms-60s
- Power Supply: 12V DC
- Highlight: **ST90S Modular Raman Spectrometer, 532nm Modular Raman Spectrometer**



More Images



Product Description

ST90S Raman Transmission Imaging Spectrometer

This high-throughput spectrometer uses a 90%-efficient VPH grating and superior optical imaging to achieve 5x sensitivity and 2x resolution improvement. The research-grade CCD provides deep cooling, high QE, and low noise. Its stable, compact form enables seamless equipment integration.

Tailored for laser Raman at 532nm, the ST90S is particularly effective for gaseous samples. Its high 4200 cm^{-1} range and sharp 4 cm^{-1} resolution make it a viable alternative to large reflection spectrometers.

Technical Parameters:

	Performance Indicators	Parameters
Detector	-	See model table for details
Optical Parameters	Wavelength Range	ST90S1: 540nm~686nm corresponds to 260~4200 cm^{-1} ST90S2: 532nm~670nm corresponds to 0~3850 cm^{-1}
	Optical Resolution(ST90S1)	0.25nm, corresponds to 8 cm^{-1} (50 μm slit) 0.14nm, corresponds to 5 cm^{-1} (25 μm slit)
	Grating Type	VPH volume holographic transmission grating
	Diffraction Efficiency	>85%
	Fiber Interface	SMA905 or Φ 10mm multi-core optical fiber
	Numerical Aperture	0.25
Electrical Parameters	Integration Time	1ms-3600s
	Data Output Interface	USB2.0
	ADC Bit Depth	16-bit
	Power Supply	DC12V (ST90S1~ST90S4) DC5V (ST90S5)
	Operating Current	3A (typical value 2A)
	Operating Temperature	-20°C ~60°C
	Storage Temperature	-30°C ~70°C
	Operating Humidity	<90%RH (no condensation)
Physical Parameters	Dimensions	348.7mm × 222.8mm × 126mm
	Weight	<6kg (including camera)

Technical Characteristics:

Highly Stable No adjustable components, applicable to labs and industries

High Flux High flux, numerical aperture is 0.25

High Diffraction Efficiency VPH grating, diffraction efficiency up to 90%

Support Multiple Channels Compatible with SMA905 optical fiber and Φ 10mm multi-core optical fiber input interface

Applications:

Scientific research grade Raman spectroscopy detection system

532 nm confocal Raman microscope system

Industrial Raman System Integration

Online Raman detection - pharmaceutical, bio-fermentation, chemical reaction process detection

Gas online detection and process analysis

Chemical industry online, biomedical

Transmission Imaging Spectrometer

Ultimate sensitivity Ultra-high resolution

ST90S



Technical Characteristics



Highly Stable

No adjustable components, applicable to labs and industries

High Flux

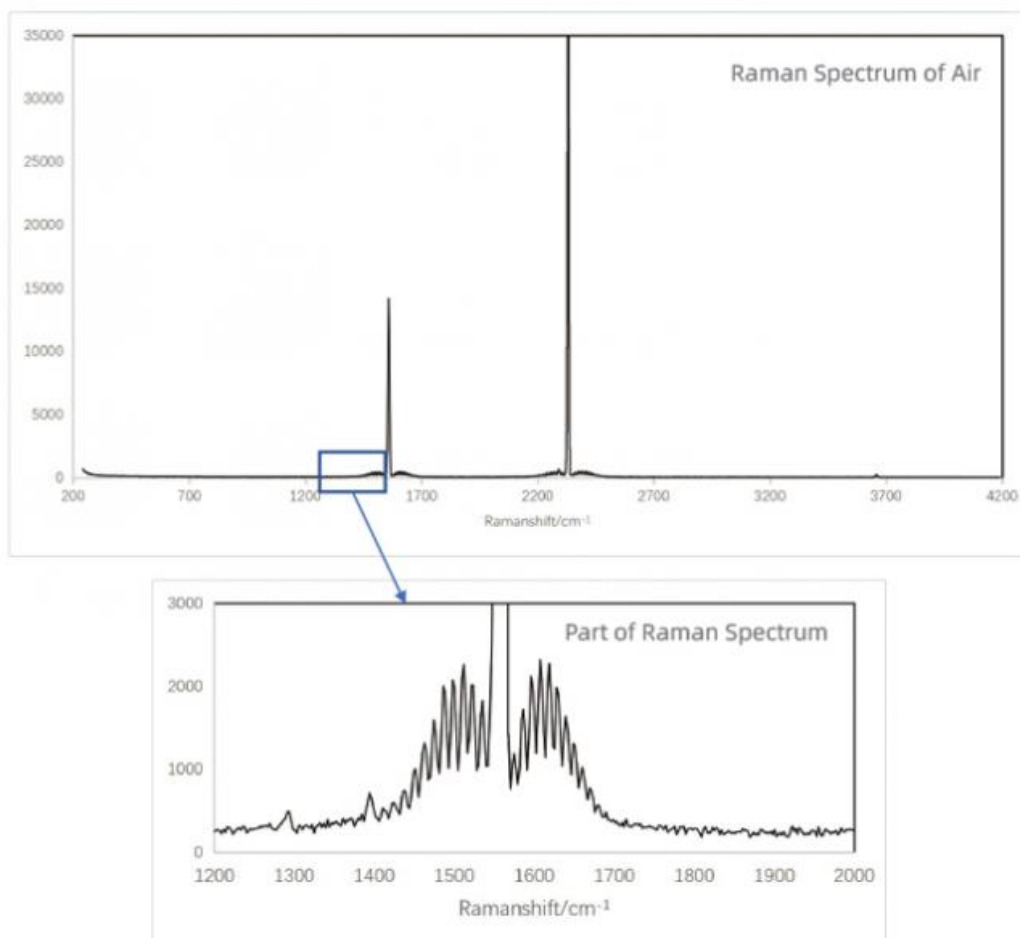
High flux, numerical aperture is 0.25

High Diffraction Efficiency

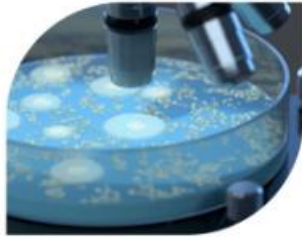
VPH grating, diffraction efficiency up to 90%

Support Multiple Channels

Compatible with SMA905 optical fiber and $\Phi 10\text{mm}$ multi-core optical fiber input interface



Technical Features



Research-grade Raman spectroscopy detection system

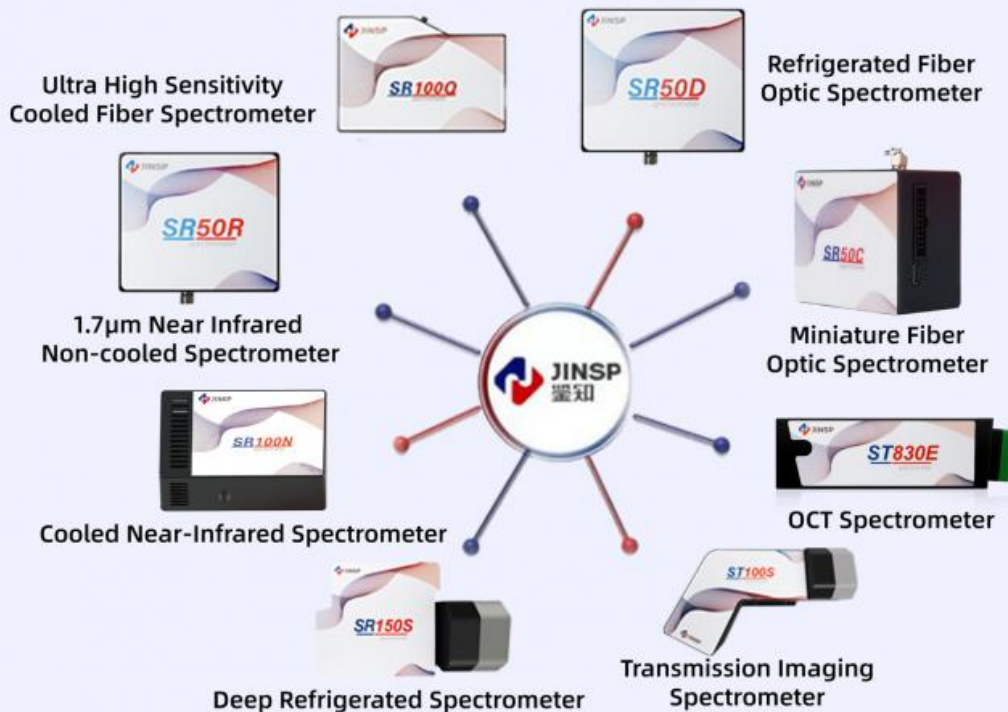
532 Confocal Raman microscopy



Integration of industrial Raman system

Capable of online gas detection and process analysis

Spectrometer Series



Packing and Shipping:

The High-Throughput Transmission Fiber Spectrometer comes in a sturdy cardboard box to ensure safe delivery.

Package



Company Introduction:

JINSP Company Limited, abbreviated as "JINSP", is a professional supplier with over 17 years of experience in spectral detection technology products, including Raman, FT-IR, LIBS technologies, etc. After 17 years of technology accumulation, the company's core key technologies have reached the international leading position at the level, and the cumulative number of patent applications exceeded 200.

JINSP offers over twenty spectroscopic products across various fields, including pharmaceutical and chemical industries, public security, and customs. Products are available nationwide and are exported to over 30 countries, with cumulative sales exceeding 3,000 units.

Benefit from 30+ R&D engineers, including 4 Ph.D., JINSP is deeply rooted in the field of personalized product customization, and is committed to meeting the diverse and unique needs of customers with excellent professional technology and innovative design capabilities.

Company Profile





FAQ:

1. What is the brand name of the product?
JINSP is our brand name.

2. What is the model number of the product?
ST90S Transmission Imaging Spectrometer.
3. What is the minimum order quantity for the product?
The minimum order quantity is 1 PC.
4. What are the payment terms for the product?
The payment terms are T/T and Western Union.
5. What is the delivery time for the product?
The delivery time is 60-70 working days.



JINSP Company Ltd.



8618620854039



phoebeyu@jinsptech.com



spectralanalyser.com

21st Floor, Building D, Tsinghua Tongfang Science and Technology Plaza, Haidian District, Beijing China