

Raman Spectroscopy ST90S Modular Raman Spectrometer with Wavelength Range 540nm-686nm and 348.7mm×222.8mm ×126mm Samples

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 260~4200cm⁻¹
- Grating Type: VPH Volume Holographic Transmission Grating
- Diffraction Efficiency: >85%
- Dimensions: 348.7mm×222.8mm ×126mm
- Weight: <6kg (including Camera)
- Fiber Length: Φ10mm Multi-core Optical Fiber
- Integration Time: 1ms-60s
- Power Supply: 12V DC
- Highlight: **ST90S Modular Raman Spectrometer, 540nm-686nm Modular Raman Spectrometer, 348.7mm×222.8mm ×126mm Modular Raman Spectrometer**



More Images



Product Description

ST90S Raman Transmission Imaging Spectrometer

JINSP's transmission spectrometer combines a high-efficiency VPH grating (~90%) with advanced optics for 5x sensitivity over reflective models. Delivering twice the resolution of typical devices, it integrates a low-noise, deep-cooled CCD for high-performance detection. Its rugged, space-saving build suits industrial applications.

Designed for 532nm Raman applications, the ST90S performs exceptionally in gas analysis. With a 4200 cm^{-1} spectral width and 4 cm^{-1} resolution, it outperforms many bulkier imported alternatives.

Technical Parameters:

	Performance Indicators	Parameters
Detector	-	See model table for details
Optical Parameters	Wavelength Range	ST90S1: 540nm~686nm corresponds to $260\sim4200\text{cm}^{-1}$ ST90S2: 532nm~670nm corresponds to $0\sim3850\text{cm}^{-1}$
	Optical Resolution(ST90S1)	0.25nm, corresponds to 8cm^{-1} (50 μm slit) 0.14nm, corresponds to 5cm^{-1} (25 μm slit)
	Grating Type	VPH volume holographic transmission grating
	Diffraction Efficiency	>85%
	Fiber Interface	SMA905 or $\Phi 10\text{mm}$ 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)

Working with Lasers and Rama Probe to build Raman measurement system, it has below technical characteristics:

- Micro-region in situ
- Non-contact and non-destructive
- Fast spectroscopy
- High sensitivity
- Weak signal
- Aqueous samples

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

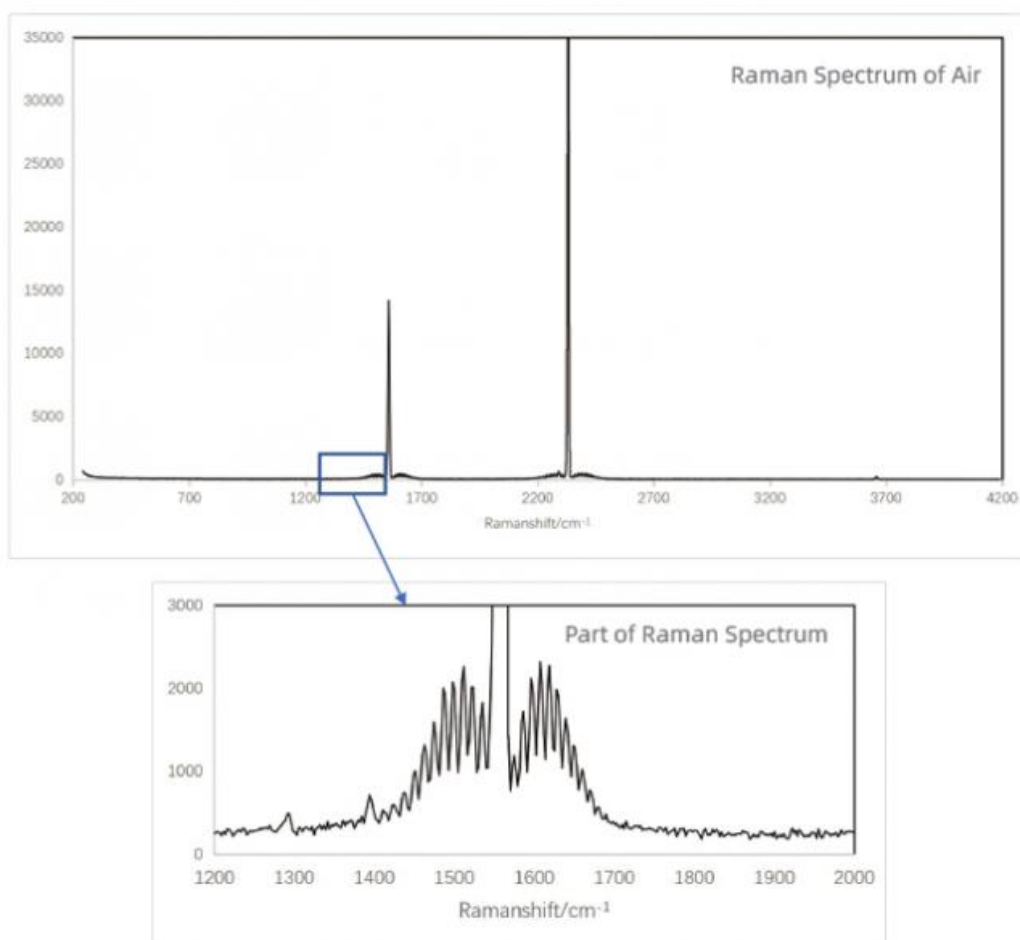
High flux, numerical aperture is 0.25

High Diffraction Efficiency

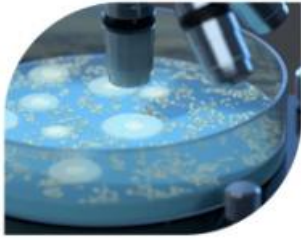
VPH grating, diffraction efficiency up to 90%

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

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.

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.



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