

Industrial ST100S Transmission Grating Spectrometer Ultra High Sensitivity

Our Product Introduction

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Basic Information

- Place of Origin: CHINA
- Brand Name: JINSP
- Certification: CE
- Model Number: ST100S
- 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: 785nm~988nm Corresponds To 0~2600cm⁻¹
- Detector: Deep-cooling Area Array CCD
- Optical Resolution: 0.35nm, Corresponds To 5cm⁻¹(50μm Slit)
- Grating Type: VPH Volume Holographic Transmission Grating
- Diffraction Efficiency: >85%
- Number Of Channels: 6 Channels (for Multi-core Optical Fiber With Core Diameter Of 200μm)
- Dimensions: 354.9*198.7*123.5mm
- Weight: <6Kg (including Camera)
- Highlight: **Transmission Grating Spectrometer High Sensitivity**
,
transmission grating spectrograph High Sensitivity

Ultra-high sensitivity ST100S transmission imaging spectrometer

JINSP ST100S transmission imaging spectrometer is equipped with an Deep-cooling area array CCD camera of scientific research level,VPH volume phase holographic grating with diffraction efficiency close to 90%. it can achieve excellent sensitivity and SNR,with sensitivity 5~10 times that of reflection spectrometer and resolution twice that of traditional spectrometer.

With a resolution of up to 3 cm, the ST100S can be coupled with a scientific research level 785nm laser Raman system to detect the Raman spectrum of materials and biological samples. Furthermore, it is more appropriate for industrial integration due to its compact design and good stability when compared to huge long-focus reflection spectrometers like the f300mm and f500mm.

Transmission Imaging Spectrometer

Ultimate sensitivity High resolution

ST100S



Features

High Compatibility Compatible with multiple scientific research grade cooling cameras such as PI and Andor, with ultra-low dark current and noise

Zero-aberration Zero aberration design, diffraction-limited resolution, support multiple channels

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

Support multiple channels Compatible with SMA905 fiber, FC connector, and $\Phi 10\text{mm}$ multi-core fiber interface

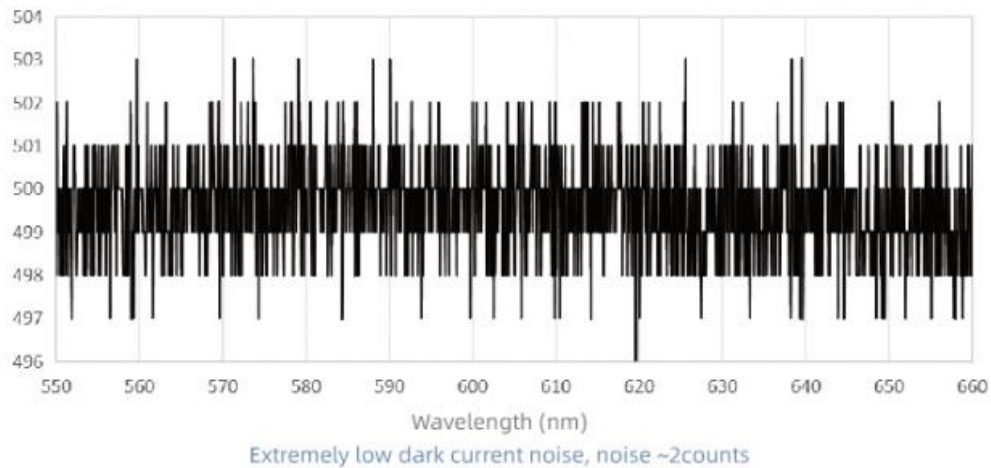
High Flux High flux, numerical aperture is 0.25

Highly stable No adjustable components, applicable to labs and industries

Technical Characteristics

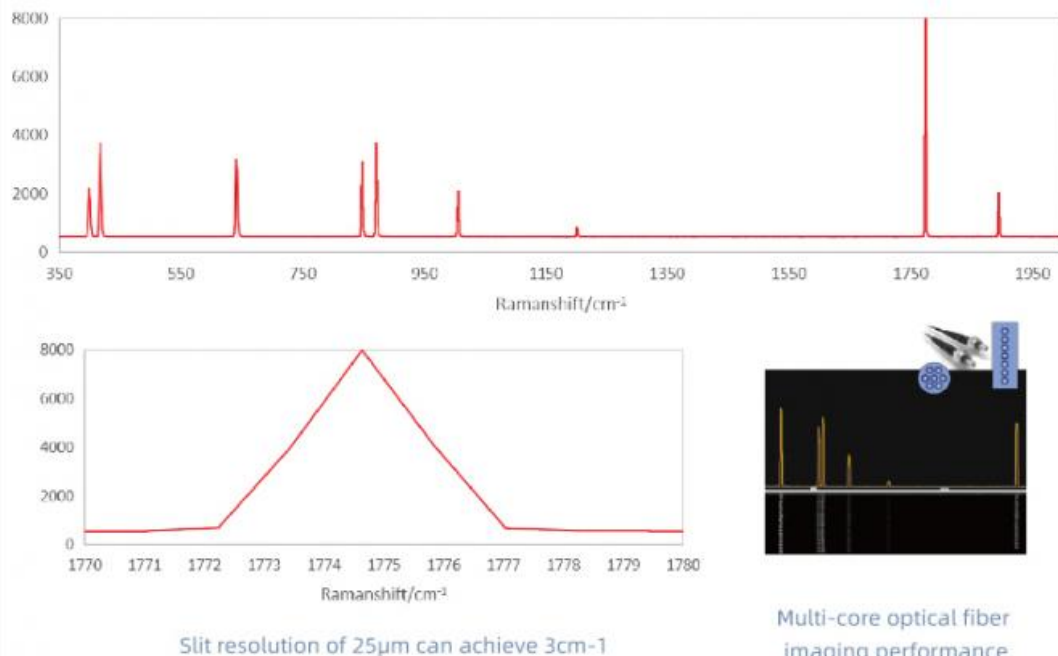
High Compatibility

Compatible with multiple scientific research grade cooling cameras such as PI and Andor, with ultra-low dark current and noise



Zero-aberration

Zero aberration design, diffraction-limited resolution



Technical Parameters

Product Name	ST100S Transmission Imaging Spectrometer
Wavelength Range	785nm~988nm corresponds to 0~2600cm ⁻¹

Optical Resolution	0.35nm, corresponds to 5cm-1(50μm slit) 0.25nm, corresponds to 3cm-1(25μm slit)
Grating Type	VPH volume holographic transmission grating
Diffraction Efficiency	>85%
Fiber Interface	SMA905 or Φ10mm multi-core optical fiber
Integration Time	1ms-3600s
Dimensions	354.9*198.7*123.5(mm)
Weight	<6kg (including camera)

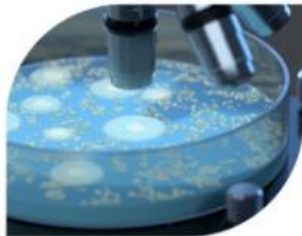
Applications

Some specific scenarios where this product can be used include:

Research-grade Raman spectroscopy detection system: 785nm Confocal Raman microscopy

Online Raman detection: Detection of pharmaceuticals, biological fermentation and chemical reaction process

Technical Features



Research-grade Raman spectroscopy detection system

785nm Confocal Raman microscopy

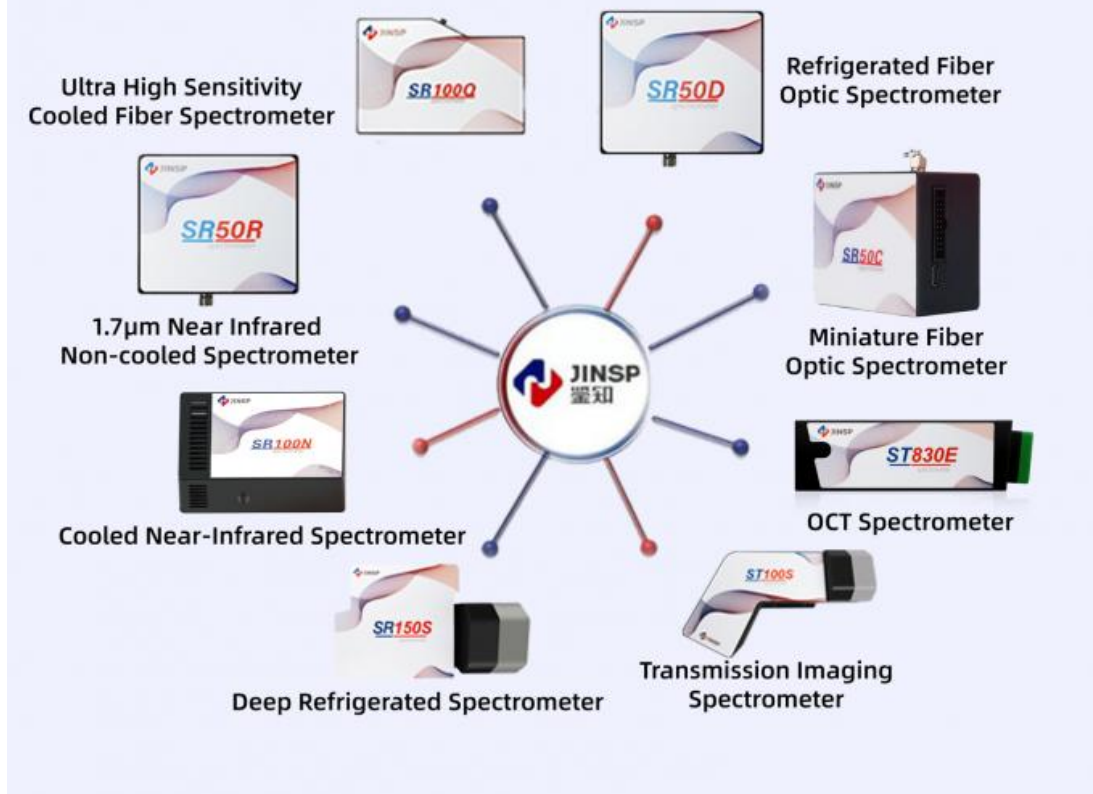


Online Raman detection

Detection of pharmaceuticals,
biological fermentation and chemical
reaction process

Spectrometer Series

Spectrometer Series



Company Profile and Certification

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



Certifications



Packing

Package



Packaging Box



ST100S



Internal Packaging

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.



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