Linear-in-wavenumber Optical Coherence Tomography OCT Modular Spectrometer

Our Product Introduction

Basic Information

- Place of Origin: CHINA
- Brand Name: JINSP
- Certification: ISO9001
- Model Number: ST830E
- Minimum Order Quantity: 1
- Price: Negotiable
- Packaging Details: Customized Packaging
- Delivery Time: 90-120 working days
- Payment Terms: T/T, Western Union
- Supply Ability: 5PCS/90-120 days

Product Specification

- Wavelength Range: 790-930nm
- Model Name: Optical Coherence Tomography(OCT) Spectrometer
- Chip Type: Linear Array CMOS
- Optical Resolution: 0.07nm (depending On The Wavelength Range)
- Data Output Interface: USB3.0/Camera Link
- Operating Humidity: 85%RH (no Condensation)
- Highlight: **Linear-in-wavenumber OCT Spectrometer**, **Optical Coherence Tomography Modular Spectrometer**, **OCT Modular Spectrometer**

More Images

Our Product Introduction

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Product Description

ST830E Optical Coherence Tomography(OCT) Spectrometer

The JINSP ST830E Spectrometer is a high-speed, stable commercial OCT spectrometer. It canbe used for high-resolution, high signal-to-noise ratio three-dimensional tomographic imaging and blood flow network imaging, such as corneal, crystalline lens, and retinal imaging, as well as imaging of the skin epidermis and dermal vascular network, and intracoronary endoscopy. It can also be used for industrial testing purposes such as laser welding and paint coating analysis.

Specifications:

Product Name	**Optical Coherence Tomography(OCT) Spectrometer**
Effective Pixel	**2048 pixels**
Pixel Size	**10*200μm**
Incident Light Interface	**FC/APC FC/APC Fiber Interface**
Wavelength Range	**790-930nm (customizable for different ranges based on requirements)**

Optical Resolution	**0.07nm (depending on the wavelength range)**
ADC Bit Depth	**10/12bit**
Imaging Depth	**2.4mm(depending on the wavelength range)**
Dimensions	**275*80*60.5mm**
Weight	**1.5kg**

Technical Characteristics

***Deep Imaging**
Excellent roll-off performance enables imaging at deeper layers.
***Wavenumber Linearity**
Special optical path design allows for equidistant wavenumber sampling on the hardware.Direct FFT (Fast Fourier Transform) is possible, significantly reducing data processing complexity
***Fast Processing**
The USB3.0 interface allows for a scanning speed of 20-130kHz, making OEM processesmore efficient and straightforward.
***High Signal-to-Noise Ratio, High Resolution**
Efficient VPH grating, optical resolution approaching the diffraction limit.

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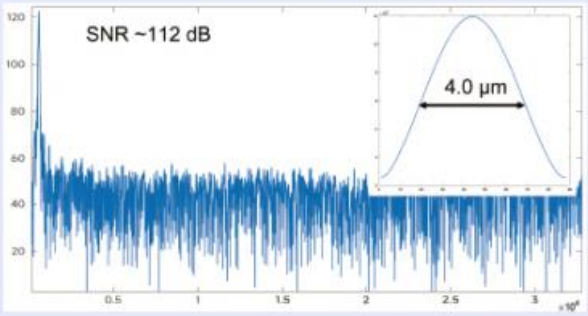

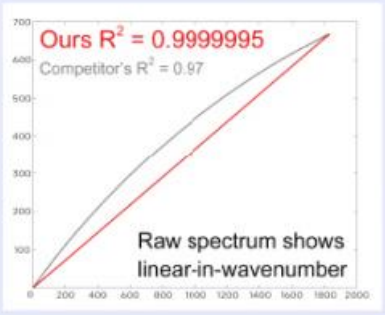

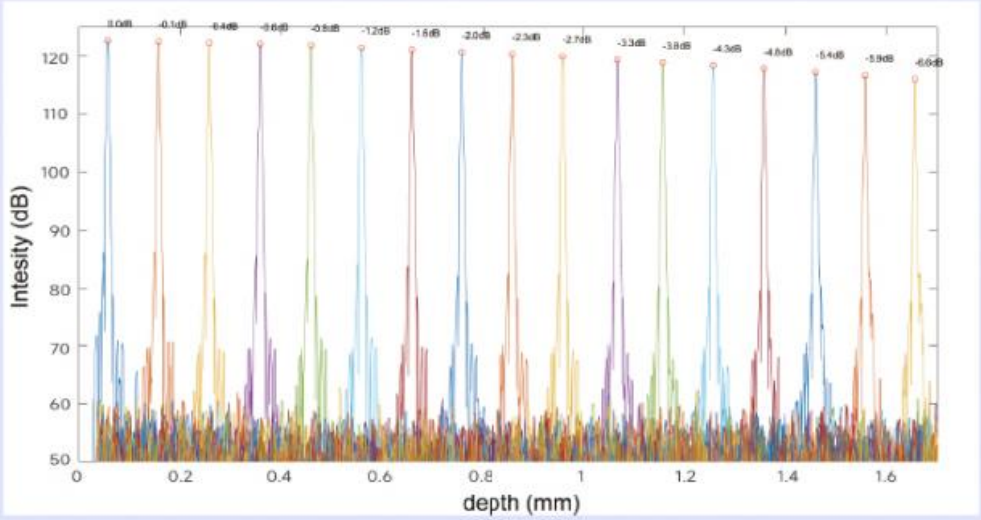

Typical Applications:

Industrial OCT: Laser Oscillation / Metal Cutting and Welding Inspection / Flatness Inspection of Electronic Display Screens

Medical OCT: Vascular Imaging / Imaging of the Retina and Anterior Chamber of the Eye

Other OCT: Detection of Uniformity in Multilayer Coatings / Real-time Monitoring of Crystal Structure Density

JINSP is a professional leading solution provider of molecular spectroscopy, particulaly in Roman Spectroscopy for many years.
Our products mostly include:
--UV VIS NIR fiber optic spectrometers;
--Desktop/portable, online Raman analyzers for laboratory or indutrial liquid & gas analysis;
--On-site rapid detectors/identifiers based on Raman technology for drugs, liquid, food safety, explosive & hazardous materials, pharmaceutical industry etc;

Company Profile



FAQ

Q1:This is the first time I use,is it easy to operate?

A1:We will send you manual and guide vedio in English,it can teach you how to operate the spectrometer.Also our technicians will offer professional tecnical opearation meetings.

Q2:Can you offer a operation training?

A2:Your technicians can come to our factory for a training. Jinsp technical engineers can go to your place for local support. (installation, training,debugging,maintenance)

Q3:What's your website?

A4:You can visit:www.jinsptech.com

Q4:What about your quality assurance?

A5:We have a quality inspection team. All goods will go through quality inspection before shipment. We can send you pictures for inspection.

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