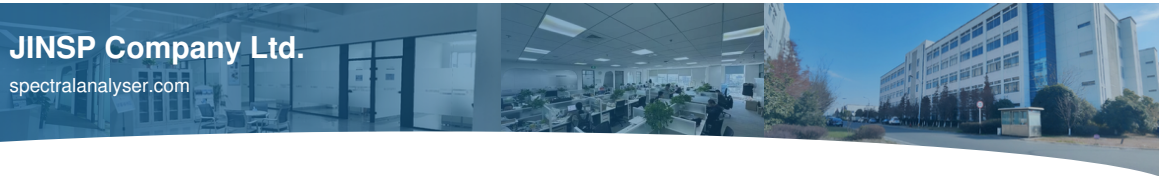




JINSP Company Ltd.
spectralanalyser.com



High Speed OCT Spectrometer Hardware Enabled Equal Interval Sampling For OEM

Our Product Introduction

for more products please visit us on spectralanalyser.com

Basic Information

- Place of Origin: CHINA
- Brand Name: JINSP
- Certification: CE
- Model Number: ST830E
- Minimum Order Quantity: 1
- Price: Negotiable
- Packaging Details: Carton Packing
- Delivery Time: 80-90 WORKING DAYS
- Payment Terms: T/T, Western Union
- Supply Ability: 10PCS/MONTH



Product Specification

- Product Name: High-speed And High-sensitivity OCT Spectrometers For Spectral Domain OCT System
- Wavelength Range: Customized In The Range Of 790-930nm
- Incident Optical Interface: FC/APC Fibre Optic Interface
- Special Optical Path Design: Hardware Can Realize Equal Interval Sampling Of Wave Number
- Interference Spectrum Processing: Direct FFT Without Wavenumber Resampling Algorithm
- VPH Gratings: High-efficiency With Near-diffraction-limited Optical Resolution
- Product Category: OCT Spectrometers
- Detector: Line Array CMOS

Product Description

OCT Spectrometers Hardware-Enabled Equal Interval Sampling for OEM

Product Description:

The OCT Spectrometers product boasts a line scan rate of up to 250kHz, allowing for rapid data acquisition and analysis. Its VPH raster & wave ridge linear design allows for precise and efficient detection, ensuring that your results are consistent and accurate. The effective pixel count of 2048 ensures that you have a high level of detail in your imaging, allowing you to identify even the smallest structures. One of the standout features of our OCT spectrometer is its ability to provide high Signal-to-Noise Ratio (SNR) measurements. This is crucial in OCT imaging, as it allows for the detection of even the faintest signals, enabling you to capture high-quality images that are essential for accurate diagnoses.

Overall, the OCT Spectrometers product is a reliable and efficient tool for OCT systems. Its high-quality components, including VPH gratings, special optical path design, and effective pixels, combined with its advanced line scan rate and SNR capabilities, make it an excellent addition to any OCT imaging setup.



Features:

Product Name: High-speed and high-sensitivity OCT Spectrometers for Spectral Domain OCT System

Interference spectrum processing: Direct FFT without wavenumber resampling algorithm

Maximum line sweep speed: 130kHz/250kHz

VPH gratings: High-efficiency with near-diffraction-limited optical resolution

Optical resolution: 0.07nm

Technical Characteristics

Deep Imaging

Excellent roll-off performance enables imaging at deeper layers.

Wavenumber Linearity

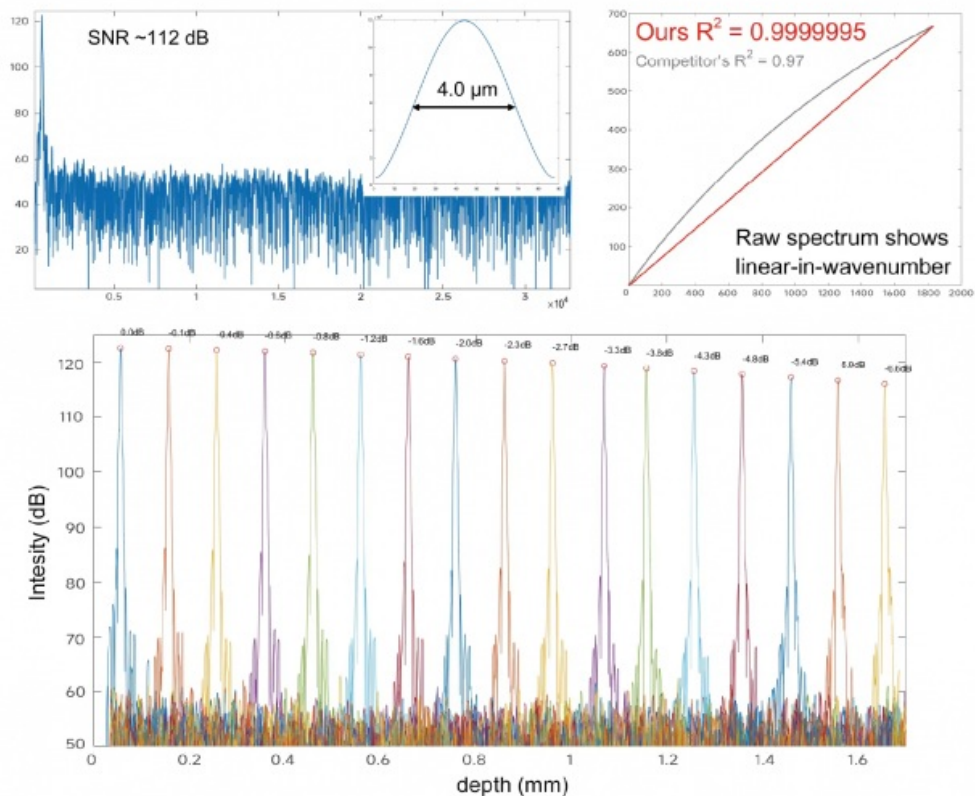
Special optical path design allows for equidistant wavenumber sampling on the hardware. Direct FFT (Fast Fourier Transform) is possible, significantly reducing data processing complexity.

Fast Processing

The USB3.0 interface allows for a scanning speed of 20-130kHz, making OEM processes more efficient and straightforward.

High Signal-to-Noise Ratio, High Resolution

Efficient VPH grating, optical resolution approaching the diffraction limit.



ST830E OCT Spectrometer

Technical Characteristics

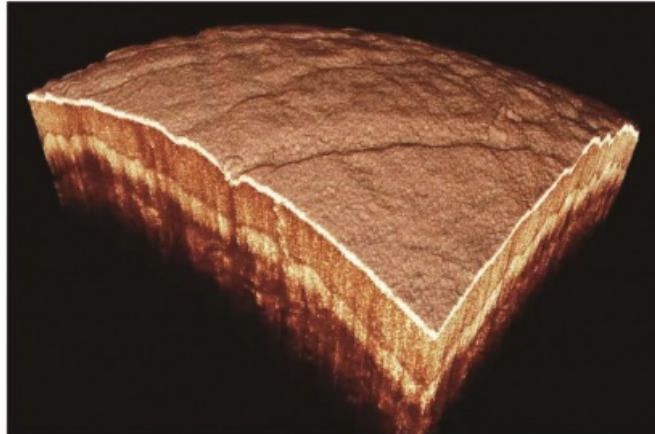
High Maturity

Stable and mature process, no need for frequent calibration

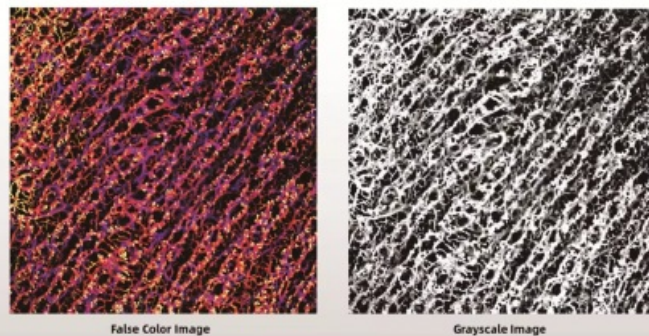
Supports Customization

Wavelength range and camera can be customized according to requirements

OCT System - 3D Skin Imaging Results:



OCT Blood Flow Imaging:



Projection Images of Blood Vessels at Different Depths

Technical Parameters:

Product Category	OCT Spectrometers
Line scan rate	Up to 250kHz
Special optical path design	Hardware can realize equal interval sampling of wave number
Cell size	10*200um
Optical resolution	0.07nm
Optical design	VPH raster & wave ridge linear design
VPH gratings	High-efficiency with near-diffraction-limited optical resolution
Wavelength range	Customized in the range of 790-930nm
Photosensitive area	20.52*0.2mm

Applications:

The OCT spectrometer with SNR fall-off of the OCT system is specifically designed to improve the signal-to-noise ratio of OCT systems.

The device has an incident optical interface with an FC/APC fibre optic interface, which allows it to interface with a wide range of detectors. The photosensitive area of the spectrometer is 20.52*0.2mm, and it has 2048 effective pixels. The JINSP ST830E OCT spectrometer is versatile and can be used in a variety of applications. It is commonly used in medical, biological, and industrial applications. In medical applications, the spectrometer is used to image biological tissues. The OCT spectrometer is widely used in ophthalmology for imaging the retina, cornea, and optic nerve head. In addition, the device is used in dermatology for imaging the skin. Biological researchers use the OCT spectrometer to investigate the structure and function of biological tissues. The device can be used to study the properties of cells, tissues, and organs. The OCT spectrometer is also used in industrial applications such as non-destructive testing, material analysis, and quality control.

Support and Services:

Our OCT Spectrometers are designed to provide accurate and reliable measurements for a variety of applications. We offer technical support and services to ensure that your product is running smoothly and efficiently.

Our technical support team is available to answer any questions you may have about your OCT Spectrometer. We also offer training and troubleshooting services to help you get the most out of your product.

If you require repairs or maintenance, we have a dedicated team of technicians who can diagnose and fix any issues with your OCT Spectrometer. We also offer calibration services to ensure that your product is always providing accurate measurements.

At our company, we understand the importance of having reliable equipment. That's why we offer comprehensive support and services to ensure that your OCT Spectrometer is always performing at its best.

Packing and Shipping:

Product Packaging:

One OCT spectrometer unit

USB cable

User manual

Protective carrying case

Shipping:

Ships within 80-90 business days

Free standard shipping within the US

International shipping available at an additional cost

Tracking number provided once item ships

FAQ:

Q: What is the brand name of the OCT Spectrometer?

A: The brand name of the OCT Spectrometer is JINSP.

Q: What is the model number of the OCT Spectrometer?

A: The model number of the OCT Spectrometer is ST830E.

Q: Where is the OCT Spectrometer manufactured?

A: The OCT Spectrometer is manufactured in China.

Q: What is the minimum order quantity for the OCT Spectrometer?

A: The minimum order quantity for the OCT Spectrometer is 1.

Q: What are the payment terms for the OCT Spectrometer?

A: The payment terms for the OCT Spectrometer are T/T and Western Union.

Q: What is the supply ability of the OCT Spectrometer?

A: The supply ability of the OCT Spectrometer is 10PCS/month.

Q: What is the delivery time for the OCT Spectrometer?

A: The delivery time for the OCT Spectrometer is 80-90 working days.

Q: What are the packaging details for the OCT Spectrometer?

A: The packaging details for the OCT Spectrometer are carton packing.



JINSP Company Ltd.



8618620854039



phoebeyu@jinsptech.com



spectralanalyser.com

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