

790nm-930nm OCT Spectrometer 130kHz/250kHz With Optical Resolution

Our Product Introduction

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Basic Information

- Place of Origin: CHINA
- Brand Name: JINSP
- Certification: CE ISO9001
- 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

- Special Optical Path Design: Hardware Can Realize Equal Interval Sampling Of Wave Number
- Product Name: High-speed And High-sensitivity OCT Spectrometers For Spectral Domain OCT System
- Photosensitive Area: 20.52*0.2mm
- Wavelength Range: 790nm-930nm
- Product Category: OCT Spectrometers
- Interference Spectrum Processing: Direct FFT Without Wavenumber Resampling Algorithm
- Detector: Line Array CMOS
- VPH Gratings: High-efficiency With Near-diffraction-limited Optical Resolution
- Highlight: **OCT Spectrometer 130kHz,**

Product Description

OCT Spectrometer 130kHz/250kHz with Optical Resolution

Product Description:

Our OCT Spectrometers are designed with line array CMOS detectors that provide high sensitivity and excellent spectral resolution. Their photosensitive areas measure $20.52^{\circ}0.2\text{mm}$, ensuring that they can capture a wide range of light signals.

Our OCT Spectrometers also feature VPH gratings that offer high-efficiency with near-diffraction-limited optical resolution. This means that you can expect accurate and precise results every time you use our spectrometers.

Our OCT Spectrometers have an excellent signal-to-noise ratio (SNR), making them ideal for use in a variety of scientific and medical applications. They are perfect for researchers and clinicians who need reliable and accurate data from their OCT systems.



Features:

Product Name: OCT Spectrometers

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

Focal length: 100mm

Optical design: VPH raster & wave ridge linear design

Photosensitive area: $20.52^{\circ}0.2\text{mm}$

Wavelength range: Customized in the range of 790-930nm

OCT spectrometer with SNR fall-off of the OCT system

Technical Parameters:

Optical design	VPH raster & wave ridge linear design
Special optical path design	Hardware can realize equal interval sampling of wave number
Incident optical interface	FC/APC fibre optic interface

Cell size	10*200um
Optical resolution	0.07nm
Line scan rate	Up to 250kHz
Maximum line sweep speed	130kHz/250kHz
Photosensitive area	20.52*0.2mm
Detector	Line array CMOS
Effective pixels	2048

ST830E OCT Spectrometer

Technical Characteristics

Deep Imaging

Excellent roll-off performance enables imaging at deeper layers.

Wavenumber Linearity

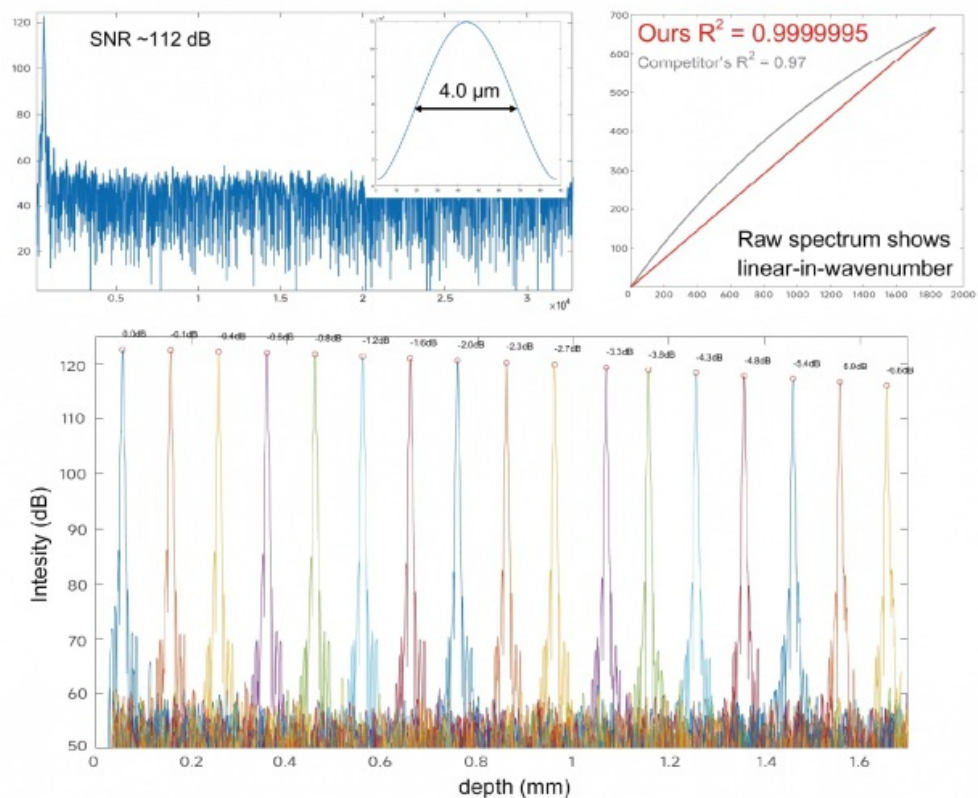
Special optical path design allows for equidistant wavenumber sampling on the hardware.
Direct FFT (Fast Fourier Transform) is possible, significantly reducing data processing complexity.

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

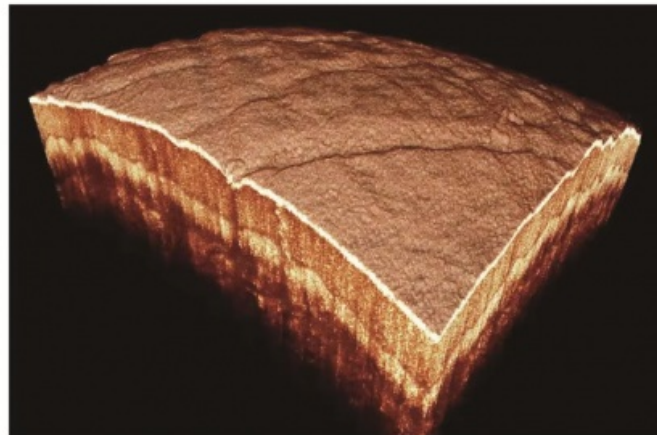
High Maturity

Stable and mature process, no need for frequent calibration

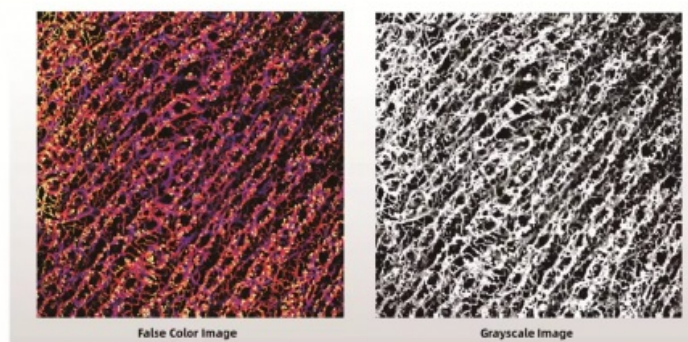
Supports Customization

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

Applications:

One of the primary applications of the JINSP ST830E OCT spectrometer is in medical research and diagnosis. It can be used in ophthalmology to diagnose retinal disease and assess the structure of the eye. It can also be used in dermatology to evaluate skin lesions and in cardiology to examine blood vessels. The high-resolution images produced by the JINSP ST830E OCT spectrometer make it possible to identify structural abnormalities, measure tissue thickness, and monitor disease progression.

Another application of the JINSP ST830E OCT spectrometer is in material analysis. It can be used to measure the thickness of thin films, identify defects in semiconductors, and analyze the composition of materials. Its high spectral resolution and line scan rate of up to 250kHz make it suitable for a wide range of material analysis applications.

The JINSP ST830E OCT spectrometer is also useful in the food industry. It can be used to analyze the composition of food products, identify contaminants, and monitor quality control. Its high resolution and accuracy make it possible to detect even small amounts of impurities, ensuring that food products are safe for consumption.

Overall, the JINSP ST830E OCT spectrometer is a versatile and powerful tool that can be used in a wide range of applications. Whether you need to analyze materials, diagnose medical conditions, or evaluate food products, this OCT spectrometer with SNR fall-off of the OCT system can provide you with the high-quality data you need.

Support and Services:

Our OCT Spectrometers product comes with comprehensive technical support and services to ensure optimal performance and user satisfaction. Our team of experts is available to assist with installation, configuration, and troubleshooting of any issues that may arise. We also offer regular maintenance and calibration services to keep your spectrometer operating at peak performance. In addition, we provide training and educational resources to help users maximize the potential of their OCT Spectrometer. Contact us to learn more about our technical support and services.

Packing and Shipping:

Product Packaging:

- 1 OCT Spectrometer unit
- 1 Power adapter
- 1 USB cable
- 1 User manual

Protective foam padding for secure transportation

Shipping:

Ships around 80-90 business days of order confirmation

International shipping is available at an additional cost

Shipped in a sturdy cardboard box with protective foam padding

Tracking information provided upon shipment

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: Is the price of the OCT Spectrometer negotiable?

A: Yes, the price of the OCT Spectrometer is negotiable.

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 OCT Spectrometer is packed in cartons.



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