Customizable K-linear Optical Coherence Tomography OCT Spectrometer Module For OCT 3D Image System Integration

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
- Weight: 1.5 Kg
- Model Name: Optical Coherence Tomography(OCT) Spectrometer
- Chip Type: Linear Array CMOS
- Effective Pixels: 2048 Pixels
- Sensing Area: 20.48*0.2mm
- Highlight: **K-linear OCT Spectrometer Module**, **OCT 3D Image System Spectrometer Module**, **Customizable OCT Spectrometer Module**

More Images

Our Product Introduction

for more products please visit us on spectralanalyser.com

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, andintracoronary endoscopy. It can also be used for industrial testing purposes such as laser welding and paint coating analysis.

The ST830E offers an optional USB3.0 interface, enabling direct connection to a laptop forhigh-resolution, high-speed imaging. Alternatively,it can be equipped with a Cameralink transmission interface, providing a maximum line scanning speed of 250kHz.

Specifications:

Chip Type	**Linear array CMOS**
Effective Pixel	**2048 pixels**
Pixel Size	**10*200μm**
Sensing Area	**20.48*0.2mm**

Maximum Line Scanning Speed	**130kHz (USB)/250kHz (Cameralink)**
Optical Resolution	**0.07nm (depending on the wavelength range)**
Wavelength Range	**790-930nm (customizable for different ranges based on requirements)**
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.

Technical Characteristics

✦ Deep Imaging

Excellent roll-off performance enables imaging at deeper layers.

✦ Wavenumber Linearity

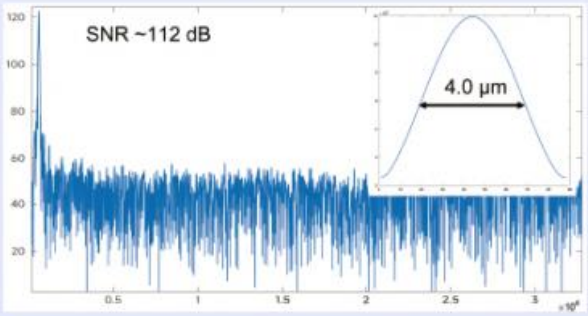
Special optical path design allows for equidistant wavenumber sampling on the hardware. Direct FFT (Fast Fourier Transform) is possible, significantly reducing data processing complexity.

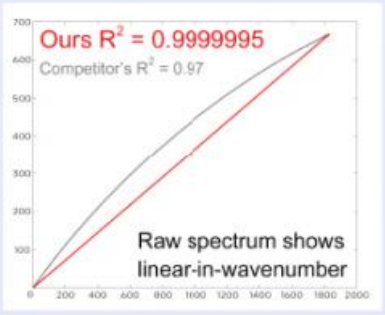
✦ Fast Processing

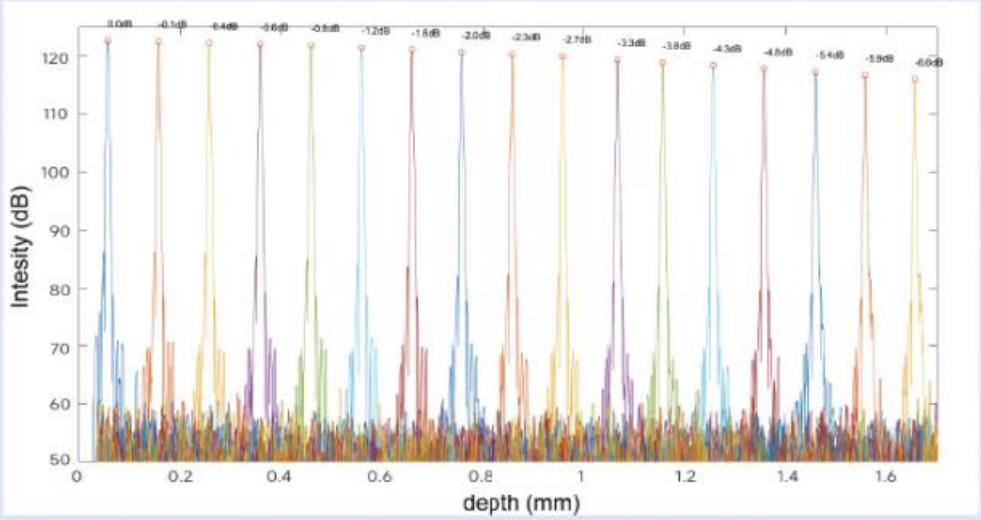
The USB3.0 interface allows for a scanning speed of 20-130kHz, making OEM processes more efficient and straightforward.

✦ High Signal-to-Noise Ratio, High Resolution

Efficient VPH grating, optical resolution approaching the diffraction limit.







*High Maturity

Stable and mature process, no need for frequent calibration
***Supports Customization**
Wavelength range and camera can be customized according to requirements

Technical Characteristics

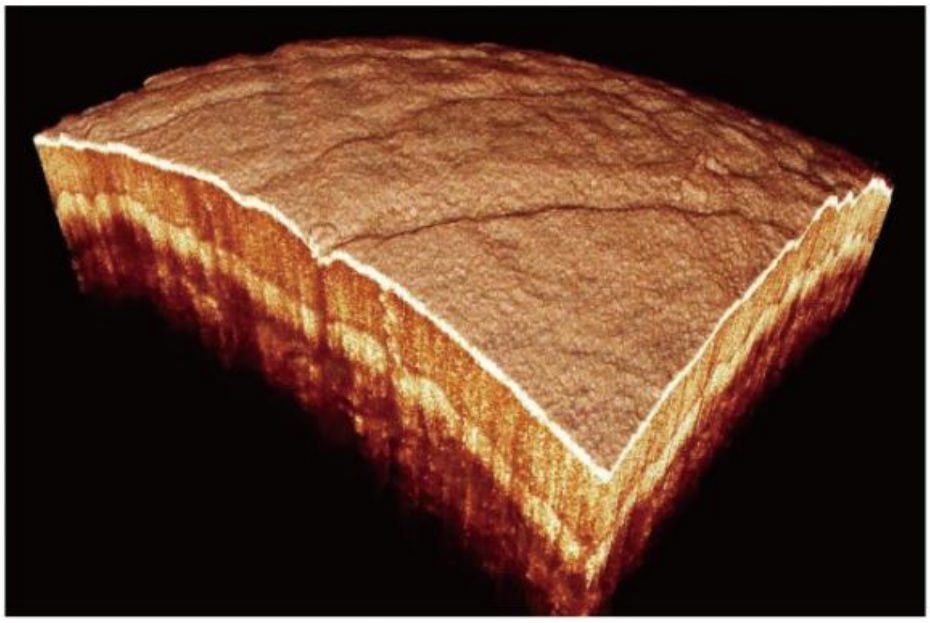
✦ High Maturity

Stable and mature process, no need for frequent calibration

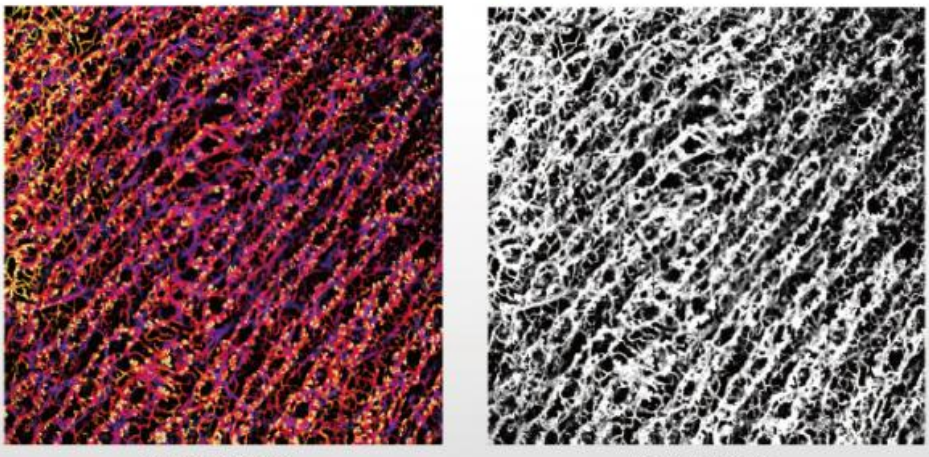
✦ Supports Customization

Wavelength range and camera can be customized according to requirements

OCT System - 3D Skin Imaging Results



OCT Blood Flow Imaging



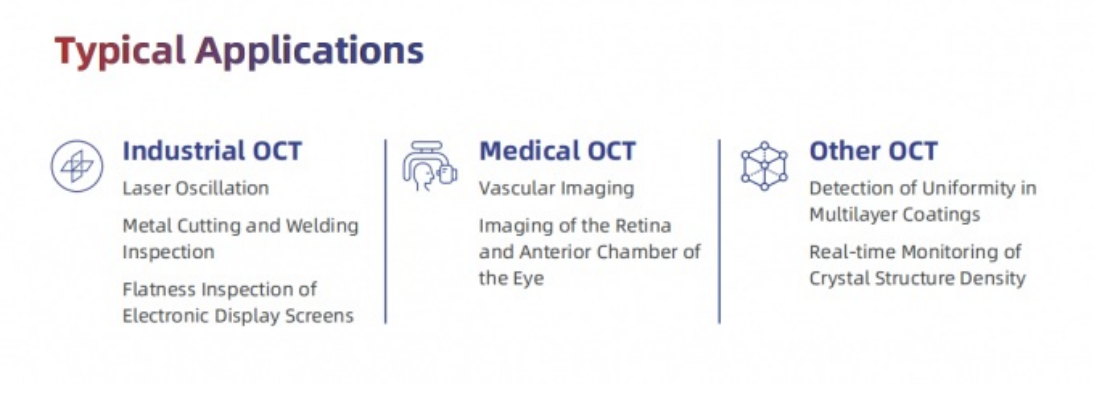
Projection Images of Blood Vessels at Different Depths

Typical Applications:

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

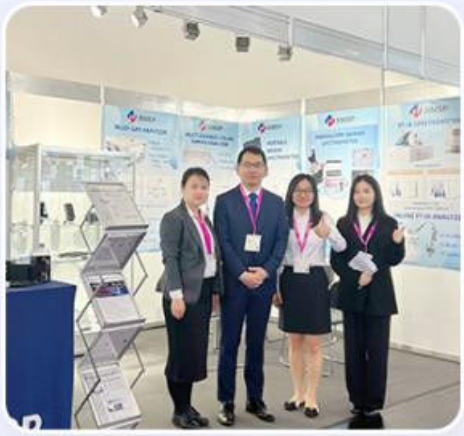
Medical OCT: Vascular Imaging / Imaging of the Retina and Anterior Chamber of the Eye

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



JINSP Company Limited has won the National Science and Technology Commission's Scientific and Technological Achievement Appraisal Certificate and the China Patent Excellence Award, and related products have been obtained has won authoritative awards such as the Geneva International Invention Award, the Beijing New Technology and New Product Certificate, and the "Innovation Achievement Award" of the Zhu Liangyi Analytical Instrument Innovation Award.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;

Exhibition



Certifications

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: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:What's your website?

A4:You can visit:www.jinsptech.com

Q5: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.

JINSP Company Ltd.

8618620854039 phoebeyu@jinsptech.com spectralanalyser.com

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