ST830E OCT Spectrometer High-Resolution Imaging for Medical Applications

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
- Effective Pixels: 2048 Pixels
- Sensing Area: 20.48*0.2mm
- Line Scan Rate: Up To 250kHz
- Highlight: **Medical Applications OCT Spectrometer**, **High Resolution Imaging OCT 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, andintracoronary endoscopy.

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**
Optical Resolution	**0.07nm (depending on the wavelength range)**
Wavelength Range	**790-930nm (customizable for different ranges based on requirements)**

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

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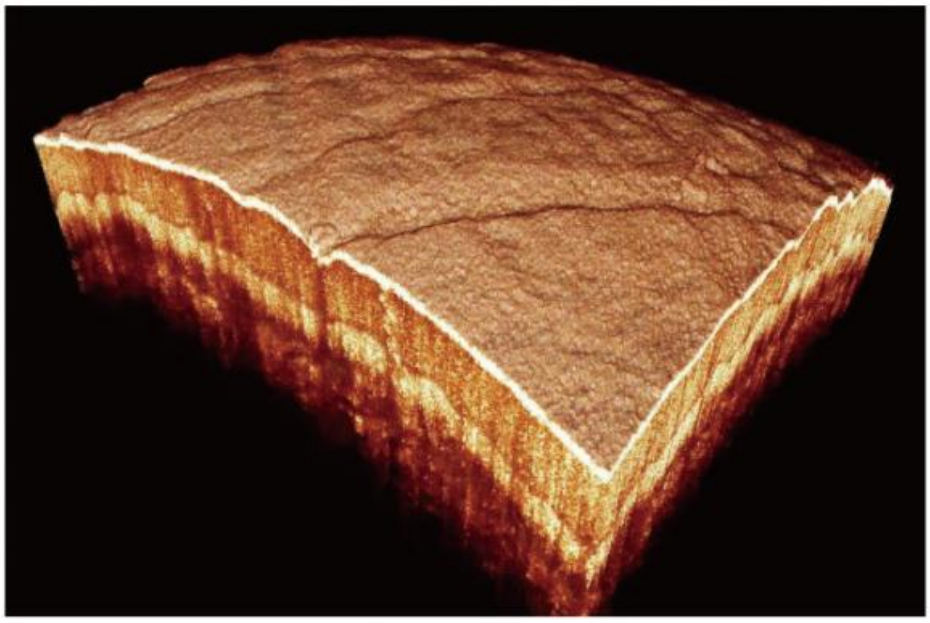
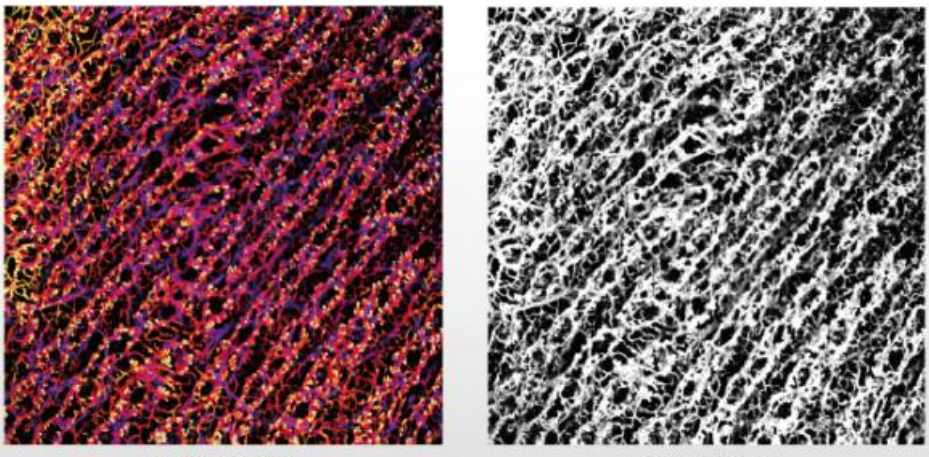
OCT System - 3D Skin Imaging Results



OCT Blood Flow Imaging



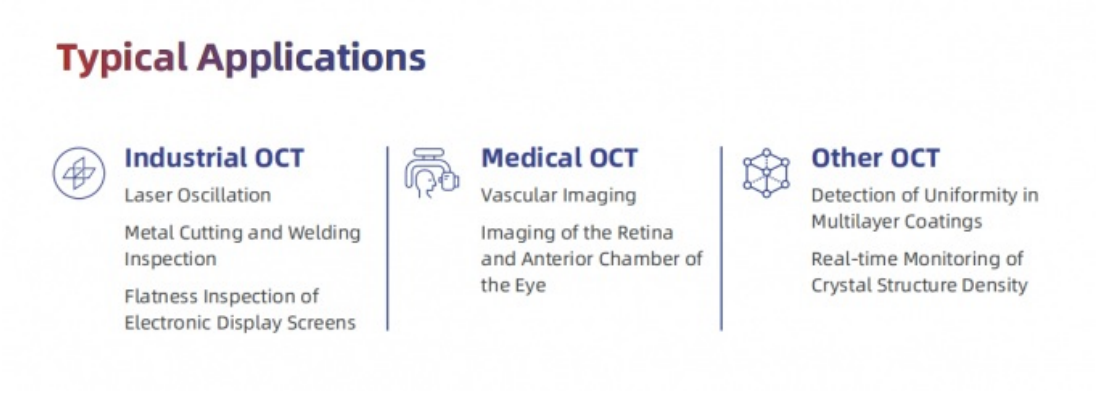
Projection Images of Blood Vessels at Different Depths

Typical Applications:

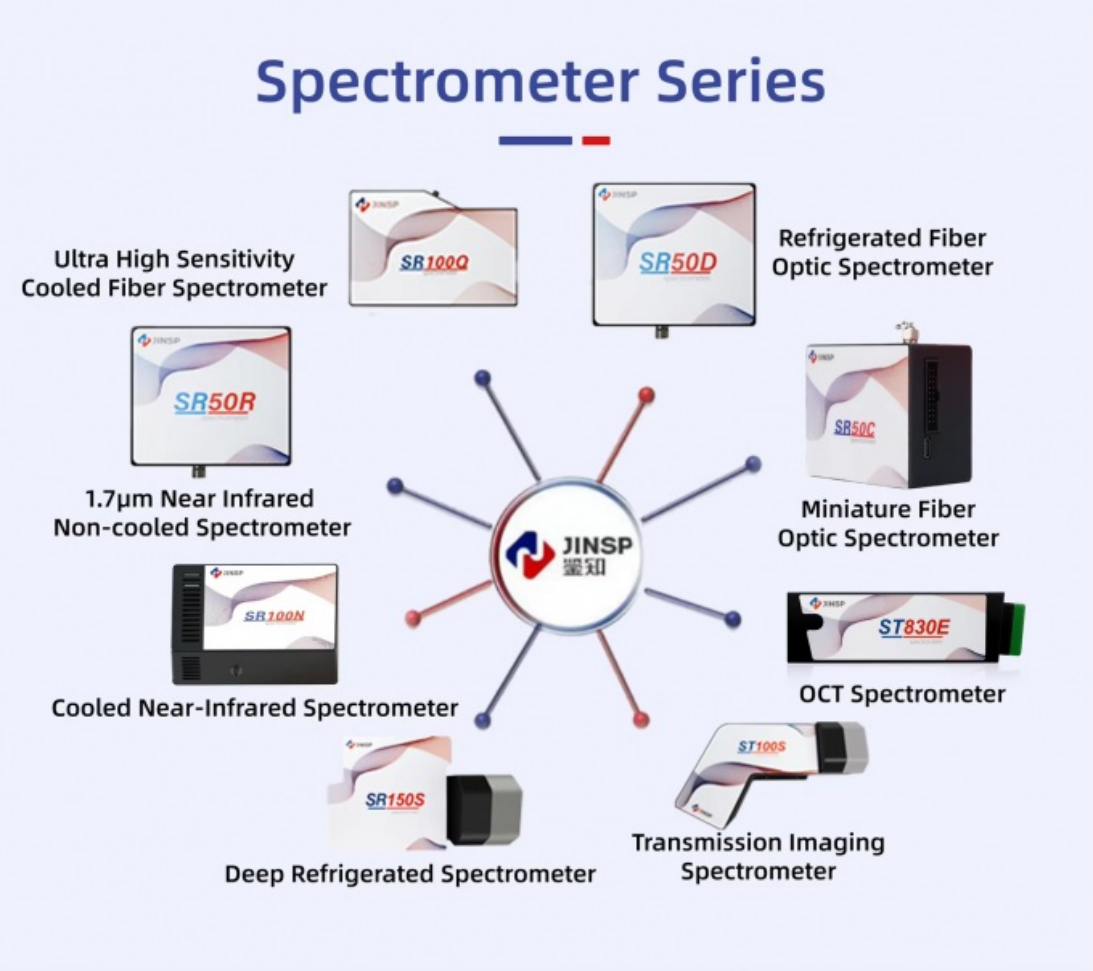
Industrial OCT: Laser Oscillation / Metal Cutting and Welding Inspection / Flatness Inspection of Electronic Display Screens

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 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;



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 about your quality assurance?

A4: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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